

R2309

Sub. Code

301NM1

B.Voc. DEGREE EXAMINATION, NOVEMBER – 2024

Fashion Technology

NME : FUNDAMENTALS OF APPAREL DESIGNING

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. Recall the term that refers to a particular look or characteristic in apparel (CO1, K1)
(a) Chic (b) Fad
(c) Fashion (d) Style
2. Applied design is also called (CO1, K1)
(a) Conventional (b) Structural
(c) Naturalistic (d) Decorative
3. Which of the following creates a center of interest by focusing the attention on a specific area of a garment (CO2, K1)
(a) Unity (b) Harmony
(c) Emphasis (d) Proportion
4. Which of the following is three dimensional? (CO2, K1)
(a) Shape (b) Texture
(c) Form (d) Line

5. Name the edge of a piece of cloth or clothing which has been turned under and sewn (CO3, K1)
- (a) Seam (b) Seam finish
(c) Hem (d) Pleat
6. Recognize the seam that cannot be used on thick fabrics (CO3, K1)
- (a) Plain (b) French
(c) Pinked seam edge (d) Top stitched
7. Which of the following is a shaped pattern piece that forms part of a garment and provides support for looser parts of the garment? (CO4, K1)
- (a) Collar (b) Sleeve
(c) Yoke (d) Seam
8. Which of the following is bodice and sleeve combined type? (CO4, K1)
- (a) Circular sleeve (b) Raglan
(c) Magyar (d) Cap sleeve
9. Measurements are used for (CO5, K1)
- (a) Fitting (b) Drafting
(c) Standardization (d) All the above
10. _____ requires a lot of fabric. (CO5, K1)
- (a) Drafting
(b) Draping
(c) Flat pattern designing
(d) All the above

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Explain about types of design. (CO1, K2)

Or

- (b) List the requirements of a good structural design.
(CO1, K2)

12. (a) How can you bring balance in a child's frock?
Illustrate. (CO2, K3)

Or

- (b) Explain about Line as an element of Design.
(CO2, K2)

13. (a) Write about seam finishes and its importance.
(CO3, K2)

Or

- (b) Explain about cutting tools. (CO3, K2)

14. (a) Describe the characteristics of a good placket.
(CO4, K3)

Or

- (b) Illustrate three different types of skirts. (CO4, K3)

15. (a) Explain the importance of body measurements.
(CO5, K2)

Or

- (b) Explain about the principles of pattern drafting.
(CO5, K3)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Illustrate and explain fashion cycle. (CO1, K4)

Or

- (b) Summarize about any four fashion designers. (CO1, K4)

17. (a) Explain about elements of design. (CO2, K3)

Or

- (b) Discuss about rhythm and its types. (CO2, K3)

18. (a) Explain about types of fullness. (CO3, K3)

Or

- (b) Define hems and explain its types. (CO3, K3)

19. (a) Elaborate on the types of collars. (CO4, K4)

Or

- (b) Outline about how variations can be created in Yokes. (CO4, K4)

20. (a) Describe the steps in preparing the fabric for cutting. (CO5 K3)

Or

- (b) Explain the methods of pattern making. (CO5, K3)

R2310

Sub. Code

302NM1

B.Voc. DEGREE EXAMINATION, NOVEMBER – 2024

Software Development

NME : OFFICE AUTOMATION

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. Integrated Circuits used in which generation of computer? (CO1, K1)
(a) First Generation (b) Second Generation
(c) Third Generation (d) Fourth Generation
2. _____ is not the characteristics of the computer. (CO1, K1)
(a) Diligence (b) I.Q
(c) Accuracy (d) Versatility
3. MS-Word is used for _____. (CO2, K5)
(a) Design Pictures (b) Design Videos
(c) Paint (d) Design Texts
4. Detect spelling and grammar error by using _____ (CO2, K5)
(a) Shift+F7 (b) F7
(c) Ctrl+F7 (d) Alt+F7

5. The intersection of a column and a row in a worksheet is called_____ (CO3, K4)
(a) Column (b) Value
(c) Address (d) Cell
6. Excel formula start with _____ (CO3, K4)
(a) / (b) f
(c) = (d) –
7. What can be used only with one variable input value? (CO4, K5)
(a) Scenario (b) Goal Seek
(c) Data Table (d) Sort
8. In which tab. Sort and Filter option is present? (CO4, K5)
(a) Home (b) Data
(c) both (a) and (b) (d) Formulas
9. What is the default extension for a PowerPoint presentation in versions 2007 and later? (CO5, K4)
(a) .pptx (b) .msppt
(c) .xsl (d) .ppt
10. _____ is used to insert a hyperlink in MS-Powerpoint. (CO5, K4)
(a) Tab+K (b) Shift+K
(c) Ctrl+K (d) Alt+K

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Describe about Arithmetic Logic Unit. (CO1, K3)

Or

- (b) How to activate windows? Explain. (CO1, K3)

12. (a) How to preview and print the document in MS-Word? (CO2,K5)

Or

- (b) Explain the features of MS-Word. (CO2,K5)

13. (a) How to insert and work with functions in Spreadsheets? Explain (CO3, K4)

Or

- (b) Write the procedure to format and navigate data in MS-Excel. (CO3, K4)

14. (a) Explain the usage of Goal-seek in Excel for What-if Analysis? (CO4, K5)

Or

- (b) Discuss about various types of Validation Criteria (CO4, K5)

15. (a) Give short note on slide transition. (CO5, K4)

Or

- (b) Compare Organizational Charts and Excel Charts. (CO5, K4)

Part C (5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Explain about types of memory in detail. (CO1, K3)

Or

- (b) Discuss in detail about Components of Windows. (CO1, K3)

17. (a) How to create and set macros in MS-Word? Explain.
(CO2, K6)

Or

- (b) Write a detailed note on mail-merge operations with example. (CO2, K6)
18. (a) Write the step by step procedure to create Pivot table in Excel. (CO3, K5)

Or

- (b) Illustrate in detail about the working procedure of any two chart types in spreadsheets. (CO3, K5)
19. (a) Explain the tools of What-if Analysis in detail. (CO4, K6)

Or

- (b) Explain the steps to filter the data in detail. (CO4, K6)
20. (a) How to create animation with custom effects for slideshow in PowerPoint? (CO5, K6)

Or

- (b) Write the procedure to apply Layering Art Objects in PowerPoint presentation in detail. (CO5, K6)
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R2311

Sub. Code

303NM2

M.Voc. DEGREE EXAMINATION, NOVEMBER – 2024

Fashion Technology

NME: APPAREL MERCHANDISING

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the questions by choosing the correct answer.

1. Which department in the apparel industry ensures that the finished garments meet the specified quality standards? (CO1, K2)
 - (a) Production Department
 - (b) Quality Control Department
 - (c) Merchandising Department
 - (d) Packaging Department

2. The department that manages the scheduling and coordination of production activities is: (CO1, K2)
 - (a) Design Department
 - (b) Merchandising Department
 - (c) Production Planning Department
 - (d) Quality Assurance Department

3. What is the primary role of an apparel exporter?(CO2, K1)
- (a) Designing garments
 - (b) Manufacturing garments
 - (c) Selling garments to retailers
 - (d) Purchasing raw materials
4. What is the primary role of an apparel buyer in the fashion industry? (CO2, K1)
- (a) Manufacturing garments
 - (b) Selling garments to consumers
 - (c) Purchasing garments from suppliers
 - (d) Designing new collections
5. What is the primary goal of an apparel merchandiser during the production process? (CO3, K4)
- (a) Maximizing profits
 - (b) Meeting quality standards
 - (c) Reducing lead times
 - (d) Reducing production costs
6. In the context of apparel merchandising, what does the term “Lead Time” refer to? (CO4, K4)
- (a) The time it takes to sell garments
 - (b) The time it takes to manufacture
 - (c) The time it takes for an order to be delivered
 - (d) The time it takes to design

7. _____ denotes the first production garments quality parameters are verified and when an apparel buyer places an order with a supplier, what is the document that outlines the order details and specifications?

(CO5, K5)

- (a) Invoice (b) Purchase Order
- (c) Packing List (d) Bill of Lading

8. What is the primary goal of apparel testing before garments are mass-produced? (CO6, K5)

- (a) To identify defects in the final product
- (b) To estimate production costs
- (c) To ensure garments safety and quality standards
- (d) To determine the market price

9. What is the term for the exchange of goods and services between countries? (CO4, K3)

- (a) Domestic trade
- (b) International trade
- (c) Wholesale trade
- (d) Retail trade

10. Which international organization promotes fair trade and sets rules for global trade agreements? (CO3, K3)
- (a) United Nations
 - (b) World Trade Organization (WTO)
 - (c) International Monetary Fund (IMF)
 - (d) World Bank

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Give outline about apparel industry. (CO2, K2)

Or

- (b) Give outline about finishing department. (CO1, K2)

12. (a) Describe about distribution. (CO3, K1)

Or

- (b) Describe about grading of export house. (CO4, K1)

13. (a) Explain the Six Rights. (CO4, K4)

Or

- (b) Generate the company profile and its content.
(CO5, K4)

14. (a) Explain about the order sheet. (CO6, K5)

Or

- (b) Explain about the Assortment. (CO4, K5)

15. (a) Give out line about AEPC. (CO3, K3)

Or

- (b) Identify the merits and demerits of advertising.
(CO2, K3)

Part C (5 × 8 = 40)

Answer all questions, not more than 1000 words each.

16. (a) Outline about quality and production department.
(CO1, K2)

Or

- (b) Express the role of each department in apparel industry.
(CO2, K2)

17. (a) Describe about sourcing and its importants.
(CO3, K1)

Or

- (b) Describe about the buyers. (CO4, K1)

18. (a) Write about the functions of a merchandiser.
(CO1, K4)

Or

- (b) Compare the types of merchandisers. (CO3, K4)

19. (a) Explain about inspection and its types. (CO5, K5)

Or

- (b) Evaluate the document formats in the apparel industry.
(CO4, K5)

20. (a) Develop advertising and its various forms. (CO3, K3)

Or

(b) What strategies can companies discover to enhance their sales promotion? (CO4, K3)

R2312

Sub. Code

304NM2

M.Voc. DEGREE EXAMINATION, NOVEMBER – 2024

Software Development

NME : PRINCIPLES OF DIGITAL MARKETING

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. Which of the following is the correct depiction of Digital Marketing? (CO1, K2)
(a) E-mail Marketing (b) Social Media Marketing
(c) Web Marketing (d) All of the above
2. _____ includes digital marketing. (CO1, K2)
(a) TV (b) Billboard
(c) Radio (d) E-mail marketing
3. Which of the following comes under email marketing? (CO2, K1)
(a) Email newsletters (b) Lead Nurturing
(c) Digests (d) All of the above
4. _____ is not a metric to track email marketing. (CO2, K1)
(a) CTR (b) Open rate
(c) Click rate (d) Stop rate

5. What is the primary goal of Public Relations (PR)?
(CO3, K4)
- (a) Increase sales and revenue
 - (b) Create engaging advertisements
 - (c) Build and maintain a positive image and reputation
 - (d) Conduct market research
6. Which PR activity involves monitoring media channels of an organization and its key executives? (CO3, K4)
- (a) Media outreach
 - (b) Event planning
 - (c) Media monitoring
 - (d) Stakeholder engagement
7. Unified Payment Interface (UPI) was developed by _____
(CO4, K1)
- (a) National Payment Corporation of India
 - (b) Reserve Bank
 - (c) Ministry of Finance
 - (d) State Bank of India
8. Paytm is transferring its e-wallet business to _____
(CO4, K1)
- (a) Airtel
 - (b) Its own PaymentBank
 - (c) Vodafone
 - (d) None of the above
9. _____ is used with the objective of identifying needs that customers are often unable to articulate
(CO5, K6)
- (a) Mind mapping
 - (b) Experience mapping
 - (c) Story Telling
 - (d) Rapid Concept Development
10. Which of the following is not a tool of design thinking?
(CO5, K6)
- (a) co-creation
 - (b) prototyping
 - (c) mind mapping
 - (d) online marketing

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Write a note on advertising through the ages.
(CO1, K2)

Or

- (b) Discuss the lifecycle of ARPANET to Internet.
(CO1, K2)

12. (a) What are the components of E-mail marketing?
Explain. (CO2, K5)

Or

- (b) Describe about the concept of CRM. (CO2, K5)

13. (a) Discuss about Online Public Relation. (CO3, K4)

Or

- (b) Write a note on Affiliate Marketing. (CO3, K4)

14. (a) Differentiate Online and Offline Payment Systems.
(CO4, K2)

Or

- (b) Discuss about Customer Satisfaction and Loyalty.
(CO4, K2)

15. (a) Explain the concept of Creativity. (CO5, K6)

Or

- (b) Discuss about Design and Innovation. (CO5, K6)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Explain about technologies of Digital Marketing in detail. (CO1, K2)

Or

- (b) Discuss the Digital Marketing strategies in detail. (CO1, K2)

17. (a) Explain different forms of social media in detail. (CO2, K5)

Or

- (b) How to measure the success of E-mail marketing? Explain. (CO2, K5)

18. (a) Discuss the strategies and challenges to promote business through online channels. (CO3, K4)

Or

- (b) Describe the concept of strategic partnership in detail. (CO3, K4)

19. (a) What are the different forms of E-payment systems? Explain. (CO4, K2)

Or

- (b) Discuss about social, ethical and legal aspects of E-payment system. (CO4, K2)

20. (a) Illustrate the ideas to develop marketing work effectively in organization. (CO5, K6)

Or

- (b) Explain the concept of Design Thinking for Innovation. (CO5, K6)

R2313

Sub. Code

311NM1

B.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Catering Science and Hotel Management

NME : BASIC CATERING SERVICES

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. Supervisor in kitchen is known as _____ (CO1, K1)
(a) Commis (b) Executive Chef
(c) Chefde partie (d) Butcher
2. The program that certifies safe and hygiene practices is _____ (CO1, K1)
(a) HRACC (b) HACCP
(c) SIHRA (d) CDC
3. The temperature maintained in hotel refrigerators is _____ (CO2, K2)
(a) 0 to 2 degree (b) –5 to –12 degree
(c) 1–4 degree (d) more than 5 degree
4. Maltise is an example of _____ (CO2, K2)
(a) Salad (b) Dessert
(c) Stock (d) Soup

5. Preparation and service of food for employees provide at subsidized rates is (CO3, K1)
- (a) Industrial Catering
 - (b) Restaurant
 - (c) Fast food centers
 - (d) Flight Catering
6. The example of primary catering establishments are (CO3, K1)
- (a) Bars
 - (b) Restaurants
 - (c) Outdoor catering
 - (d) All the above
7. Who is the head of FandB production department? (CO3, K2)
- (a) Boulanger
 - (b) Chefde cuisine
 - (c) Tournant
 - (d) Garde Manger
8. A highly trained member of the staff who takes care of all needs of in-house guest is _____ (CO4, K1)
- (a) Captain
 - (b) Sommelier
 - (c) Butler
 - (d) Waiter
9. The other name for departure is (CO5, K1)
- (a) Check-out
 - (b) Arrival
 - (c) Pre-arrival
 - (d) None of these
10. A guest who leaves the hotel without making the final settlement is (CO5, K1)
- (a) Thief
 - (b) Porter
 - (c) Busboy
 - (d) Skipper

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Draw the Layout of kitchen in a large category hotel. (CO1, K2)

Or

- (b) Explain about the qualities required for a chef. (CO1, K2)

12. (a) What do you mean by special cooking methods? Give suitable examples. (CO2, K1)

Or

- (b) Describe the classification of soups. (CO2, K1)

13. (a) What is called leisure linked catering? (CO3, K2)

Or

- (b) Examine the following: Welfare catering and Outdoor catering. (CO3, K1)

14. (a) Describe the coordination of FandB service with kitchen department. (CO4, K4)

Or

- (b) Write the role of Commis de rang in service department. (CO4, K2)

15. (a) Difference between: Occupancy and Discrepancy reports (CO5, K1)

Or

- (b) What is the importance of front office department in a hotel? (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Explain about the role of executive chef in detail.
(CO1, K1)

Or

- (b) Write about the importance of personal hygiene of culinary professionals.
(CO1, K1)

17. (a) Outline the concept of basic mother sauces with derivatives.
(CO2, K2)

Or

- (b) Describe the characteristics of raw materials used in cooking food.
(CO2, K2)

18. (a) Classify the types of catering establishments in food industry.
(CO3, K4)

Or

- (b) Explain the types of bar
(CO3, K2)

19. (a) Describe the various outlets in FandB service department
(CO4, K6)

Or

- (b) Explain about the attributes required for F and B personnel.
(CO4, K6)

20. (a) Draw a neat diagram of the organizational structure of housekeeping in large category hotels.
(CO5, K2)

Or

- (b) Explain the duties and responsibilities of front office manager.
(CO5, K1)

R2314

Sub. Code

316NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

Gender Studies

NME: KEY CONCEPTS IN GENDER STUDIES

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. Which of the following is an example of a gender stereotype? (CO1, K1)
 - (a) Women are better at multitasking
 - (b) Men and women have equal cognitive abilities
 - (c) All individuals should be treated equally
 - (d) Gender roles do not exist in modern society
2. How do gender roles typically differ for men and women? (CO1, K2)
 - (a) Men are generally expected to be nurturing caregivers
 - (b) Both men and women are expected to perform the same roles
 - (c) Women are often expected to take on domestic responsibilities
 - (d) Gender roles are not influenced by society

3. What is the primary goal of gender analysis? (CO2, K1)
- (a) To promote gender stereotypes
 - (b) To assess how gender affects individuals' experiences and outcomes
 - (c) To evaluate the effectiveness of a product
 - (d) To increase the salary of male employees
4. How does gender sensitization contribute to reducing gender-based violence? (CO2, K2)
- (a) By ignoring the problem
 - (b) By blaming one gender for violence
 - (c) By reinforcing stereotypes
 - (d) By promoting understanding and respect among genders
5. What is one implication of adopting a deterministic view in gender studies? (CO3, K2)
- (a) Justifying inequalities based on perceived natural differences
 - (b) Recognizing the fluidity of gender identities
 - (c) Encouraging a more nuanced understanding of gender
 - (d) Emphasizing the importance of personal choice
6. Which of the following is a common criticism of reductionism in gender studies? (CO3, K2)
- (a) It helps in identifying specific causes of behaviour
 - (b) It adequately considers social and cultural influences
 - (c) It promotes a comprehensive understanding of issues
 - (d) It may overlook the interactions between different social factors

7. What is the primary purpose of the Gender Empowerment Measure (GEM)? (CO4, K2)
- (a) To analyse healthcare disparities
 - (b) To measure gender-based violence rates
 - (c) To assess women's participation in economic and political life
 - (d) To evaluate educational attainment among genders
8. Which of the following statements reflects gender equality? (CO5, K2)
- (a) Gender equality is achieved when individuals can choose their paths without discrimination
 - (b) Women should only occupy caregiving roles in society
 - (c) Men and women should have different educational opportunities based on their gender
 - (d) Gender equality is only about achieving equal pay for women.
9. What role does economic empowerment play in women's empowerment? (CO5, K2)
- (a) It reinforces existing gender inequalities
 - (b) It restricts women's ability to pursue careers
 - (c) It allows women to become financially independent and make autonomous decisions
 - (d) It has no significant impact on women's overall empowerment

10. Which of the following strategies is effective for promoting women's empowerment? (CO3, K1)
- (a) Creating mentorship programs for women
 - (b) Ignoring women's voices in decision-making processes
 - (c) Enforcing strict gender roles
 - (d) Limiting access to healthcare for women

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Examine the historical roots of the gender division of labour in traditional societies. How have cultural and economic factors shaped gender roles in the workforce? (CO1, K4)

Or

- (b) How can the concept of patriarchy be used to understand family structures in contemporary society? Explain. (CO1, K3)
12. (a) Describe the key components of a gender training program. (CO2, K2)

Or

- (b) Explain Gender audit. (CO2, K2)
13. (a) Evaluate the impact of feminist movements on the understanding of femininities. (CO3, K5)

Or

- (b) Analyse the role of socialization in perpetuating social inequalities. (CO3, K5)

14. (a) Differentiate between equality and equity. (CO4, K2)

Or

- (b) Write a short not on GEM. (CO4, K2)

15. (a) Analyse the role of education in promoting women empowerment. (CO5, K4)

Or

- (b) Describe the barriers to women empowerment in developing countries. (CO5, K2)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Analyse the relationship between gender discrimination and other forms of discrimination, such as race or class. (CO1, K4)

Or

- (b) How can an understanding of gender ideology be applied to analyse contemporary gender issues? Explain. (CO1, K4)

17. (a) Explain the causes of gender-based violence in society. (CO2, K2)

Or

- (b) Describe the process involved in conducting a gender audit. (CO2, K2)

18. (a) How can the concept of masculinities be applied to analyse male behaviour in different social settings? (CO3, K3)

Or

- (b) Write a short not on Dualism. (CO3, K2)

19. (a) Explain HDI and GDI. (CO4, K2)

Or

- (b) Evaluate the success of gender equality policies in India over the past decade. (CO4, K5)

20. (a) Explain the key areas where women empowerment is essential. (CO5, K2)

Or

- (b) Explain the importance of women empowerment in achieving gender equality. (CO5, K2)
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R2315

Sub. Code

411NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

தமிழ்

NME – இதழியல் மற்றும் தகவல் தொடர்பியல்

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

பகுதி அ

(10 × 1 = 10)

அனைத்து வினாக்களுக்கும் விடை தருக.

1. உலகின் மிகப் பழைய இதழ் எது? (CO1, K1)
(அ) பீகிங் நியூஸ் (ஆ) இலண்டன் டைம்ஸ்
(இ) வங்காள கெஜட் (ஈ) போஸ்ட் பாய்
2. உலகின் முதல் அச்சிதழ் எது? (CO1, K1)
(அ) உறவு (ஆ) மலர்
(இ) தலைப்பு (ஈ) தந்தி
3. டி.எஸ். சொக்கலிங்கம் நடத்திய இதழ் எது? (CO1, K1)
(அ) காந்தி (ஆ) சுதேசமித்திரன்
(இ) குயில் (ஈ) குடியரசு
4. Journalism என்ற ஆங்கிலக் கலைச் சொல் எந்த மொழிச் சொல்லில் பிறந்தது? (CO1, K1)
(அ) இலத்தீன் (ஆ) கிரேக்கம்
(இ) பிரெஞ்சு (ஈ) ஹீப்ரு
5. தமிழில் முதலில் _____ என்ற சொல் கையாளப்பட்டது? (CO1, K1)
(அ) பத்திரிகை (ஆ) முடங்கள்
(இ) தாளிகை (ஈ) மலர்

6. முதல் ஆங்கில வார இதழ் (CO1, K1)
 (அ) வங்காள கெஜட் (ஆ) இலண்டன் டைம்ஸ்
 (இ) தினமணி (ஈ) தினச்செய்தி
7. இந்தியாவின் முதல் இதழ் (CO1, K1)
 (அ) இலண்டன் டைம்ஸ் (ஆ) தினச்செய்தி
 (இ) போஸ்ட் பாய் (ஈ) வங்காள கெஜட்
8. உலகில் வெளியிடப்பட்ட முதல் செய்தி தாள் (CO1, K1)
 (அ) Daily Thanthi (ஆ) Daily Current
 (இ) The Hindu (ஈ) Daily Mashriq
9. அச்சு பொறியைக் கண்டுபிடித்தவர் (CO4, K4)
 (அ) கூட்டன்பர்க் (ஆ) நிகோலஸன்
 (இ) பிரெடரிக் கோனிக் (ஈ) மார்க்கோனி
10. மேம்பாட்டு இதழியல் என்ற சொல்லை உருவாக்கியவர் (CO4, K4)
 (அ) கிறிஸ்டினா ஓகன் (ஆ) வில்லியம் ரோஸ்மேரி
 (இ) ஆலன் சாக்லே (ஈ) எர்ஸ்கைம் சைல்டர்ஸ்

பகுதி ஆ

(5 × 5 = 25)

அனைத்து வினாக்களுக்கும் 500 சொற்களுக்கு மிகாமல் விடையளிக்கவும்.

11. (அ) இதழ்களின் பணிகள் மற்றும் கடமைகள் குறித்து விளம்புக. (CO1, K1)

(அல்லது)

- (ஆ) இதழ்களின் வகைகளை விளக்குக, (CO1, K1)

12. (அ) இதழ்கள் தொடங்குவதற்குரிய வழிமுறைகளை இயம்புக. (CO4, K4)

(அல்லது)

- (ஆ) தலையங்கத்தின் சிறப்பினைப் பகர்க. (CO4, K4)

13. (அ) தேசிய வளர்ச்சியில் பத்திரிக்கைகளின் பங்கு குறித்து எடுத்தியம்புக. (CO1, K1)

(அல்லது)

- (ஆ) கருத்துப் படங்களின் பணியைக் குறிப்பிடுக. (CO1, K1)

14. (அ) 'இன்றைய வானொலி நிகழ்ச்சிகளின் தாக்கம்' – விளம்புக. (CO1, K1)

(அல்லது)

- (ஆ) வானொலியின் தனித்தன்மைகளை இயம்புக. (CO1, K1)

15. (அ) தொலைக்காட்சி மெகா தொடர்களின் தாக்கம் குறித்து எழுதுக. (CO4, K4)

(அல்லது)

- (ஆ) அச்சக் கோக்கும் முறைமைகளை எடுத்தியம்புக. (CO4, K4)

பகுதி இ

(5 × 8 = 40)

அனைத்து வினாக்களுக்கும் 1000 சொற்களுக்கு மிகாமல் விடையளிக்கவும்.

16. (அ) இதழியலின் தோற்றமும் வளர்ச்சியும் குறித்து விவரிக்க. (CO1, K1)

(அல்லது)

- (ஆ) இன்றைய தமிழ் நாளிதழ்களின் போக்குகளைத் தொகுத்துரைக்க. (CO1, K1)

17. (அ) இதழ்களின் அமைப்பு முறையினைத் தொகுத்துரைக்க. (CO4, K4)

(அல்லது)

(ஆ) இதழ்களின் சுதந்திரம் குறித்து எடுத்துரைக்க. (CO4, K4)

18. (அ) மின்னணுச் சாதனங்கள் குறித்து கட்டுரை வரைக. (CO1, K1)

(அல்லது)

(ஆ) தகவல் மேலாண்மையில் கணினியின் பங்களிப்பினை எடுத்துரைக்க. (CO1, K1)

19. (அ) 'இந்திய வானொலி வரலாறு' – கட்டுரைக்க. (CO1, K1)

(அல்லது)

(ஆ) இணையத்தின் பயன்கள் குறித்து விளக்கியுரைக்க. (CO1, K4)

20. (அ) தொலைக்காட்சி வரலாற்றினைத் தொகுத்துரைக்க. (CO4, K4)

(அல்லது)

(ஆ) 'சமுதாயத்தில் அலைபேசி ஏற்படுத்திய தாக்கம்' கட்டுரை வரைக. (CO4, K4)

R2316

Sub. Code

414NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

Theatre and Film Studies

NME : MIME AND CHOREOGRAPHY

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Section A

(10 × 1 = 10)

Answer **all** the questions by choosing the correct option.

1. What is the key characteristic of mime performance?
(CO1, K1)
 - (a) Speaking loudly
 - (b) Using props
 - (c) Silence
 - (d) Singing
2. What does choreography involve? (CO1, K2)
 - (a) Acting
 - (b) Group Discussion
 - (c) Composing music
 - (d) Creating dance movements and sequences
3. In free movement mime, what is emphasized the most?
(CO2, K1)
 - (a) Precise imitation of real animal
 - (b) Expressive and exaggerated gestures
 - (c) Speaking in rhythm with the movements
 - (d) Use of real animal sounds

4. Why is free movement important in Mime? (CO2, K2)
- (a) It relies on strict choreography
 - (b) It allows for creative expression and spontaneity
 - (c) It eliminates the need for facial expression
 - (d) It focuses solely on imitating animals
5. Modern mime often incorporates which of the following elements? (CO3, K1)
- (a) Spoken words
 - (b) Digital effects and multimedia
 - (c) Only black and white costumes
 - (d) Classical Music
6. Who is credited with popularizing traditional mime? (CO3, K2)
- (a) Charlie Chaplin (b) Lucille Ball
 - (c) Harold Lloyd (d) Marcel Marceau
7. What is an essential component of flexibility training for advanced performers? (CO4, K2)
- (a) Consistency and progression
 - (b) Short, intense sessions
 - (c) Focusing only on muscle group
 - (d) Avoiding rest periods

8. What exercise can enhance hip flexibility for complex dance movements? (CO4, K2)
- (a) Side lunges
 - (b) Push-ups
 - (c) Jump rope
 - (d) Pull-ups
9. How do choreographers use stylized movements to convey emotions in dance? (CO5, K2)
- (a) By incorporating face and erratic movements only
 - (b) By focusing on fluid and deliberate movements that evoke specific feelings
 - (c) Through the use of verbal explanations during performance
 - (d) By reducing movement increasing facial expressions
10. What role does “exaggeration” plays in Mime performances? (CO5, K1)
- (a) To create realistic and subtle body movements
 - (b) To distract audience from the storyline
 - (c) To make gestures more visible and understandable to the audience
 - (d) To avoid attention to the movement details

Section B**(5 × 5 = 25)**

Answer **all** the questions not more than 500 words each.

11. (a) How do you create new movement patterns in mime and choreography? (CO1, K2)

Or

- (b) Explain the importance of creative dance in choreography. (CO2, K2)

12. (a) State the animal modern movement-imitation help in mime through free movement. (CO2, K2)

Or

- (b) List the importance of studying body anatomy in choreography. (CO2, K3)

13. (a) Indian aesthetics help to express emotions through choreography — Justify. (CO3, K4)

Or

- (b) Knowledge of body rhythm will enhance the stylized movements in choreography - Explain. (CO3, K4)

14. (a) Through simple exercises we can attain Body flexibility - Justify. (CO4, K5)

Or

- (b) Differentiate the symmetry and asymmetry in body exercises with examples. (CO4, K4)

15. (a) Examine the advantages of the Modern theatre in the digital age. (CO5, K6)

Or

- (b) Evaluate the exercises for emotional expression through body. (CO5, K6)

Section C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain the role of creative dance among the youth in the digital age. (CO3, K4)

Or

- (b) Body flexibility leads to create new movement patterns in Mime — Explain. (CO3, K3)

17. (a) “Knowledge of animal behaviour is essential to learn free movement in choreography” — Explain. (CO3, K4)

Or

- (b) Understanding the body anatomy is good for the choreography — Justify. (CO3, K4)

18. (a) List the advantages of Pantomime to communicate social theme among the youth. (CO4, K4)

Or

- (b) Examine the role of Indian aesthetics in mime and choreography. (CO3, K4)

19. (a) Complex body movements can be attained through flexibility - Justify. (CO4, K5)

Or

- (b) Art of composition in dance leads to creative expressions — Explain. (CO4, K5)

20. (a) Analyse the role of stylized movements in choreography. (CO5, K5)

Or

- (b) Compare the Traditional Theatre and Modern Theatre. (CO5, K5)

R2317

Sub. Code

415NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

History

NME – CULTURAL HERITAGE OF INDIA

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions
by choosing the correct option.

1. Which of the following best defines culture? (CO1, K2)
 - (a) A system of government
 - (b) A way of life including customs, traditions, and values
 - (c) An economic system
 - (d) A scientific discovery
2. Which component is NOT part of the definition of culture? (CO1, K2)
 - (a) Language
 - (b) Religion
 - (c) Weather
 - (d) Art
3. The impact of cultural heritage in India can be seen in _____ (CO2, K1)
 - (a) Modern technology
 - (b) Religious festivals
 - (c) Political systems
 - (d) Economic policies

4. Which site is NOT considered part of India's pilgrimage heritage? (CO2, K1)
- (a) Sanchi (b) Rameswaram
(c) Eiffel Tower (d) Lumbini
5. Which site is associated with the enlightenment of Buddha? (CO3, K2)
- (a) Badrinath (b) Rishikesh
(c) Sarnath (d) Nagore
6. Mount Abu is famous for which type of heritage? (CO3, K2)
- (a) Hindu temples
(b) Jain temples
(c) Christian churches
(d) Islamic mosques
7. Which is NOT a performing art of India? (CO4, K2)
- (a) Bharatanatyam (b) Kathak
(c) Opera (d) Odissi
8. Which craft village is known for its traditional textiles? (CO4, K2)
- (a) Jaipur (b) Hyderabad
(c) Shantiniketan (d) Kanchipuram

9. The Pushkar Fair is famous for trading what? (CO5, K2)
- (a) Textiles (b) Livestock
(c) Spices (d) Jewelry
10. Which festival marks the beginning of the new year in the Sikh calendar? (CO5, K2)
- (a) Diwali (b) Baisakhi
(c) Holi (d) Eid

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Define culture and explain its nature and importance. (CO1, K2)

Or

- (b) What are the components of culture? Discuss each briefly. (CO1, K2)

12. (a) What does Indian culture encompass? Provide its meaning and definition. (CO2, K2)

Or

- (b) Discuss the features of cultural heritage in India. (CO2, K2)

13. (a) Name and describe any four pilgrimage sites in India. (CO3, K2)

Or

- (b) Why are sites like Sanchi, Nalanda, and Sravanabelagola significant in Indian cultural heritage? (CO3, K2)

14. (a) Discuss the evolution of architecture in India, focusing on forts and palaces. (CO4, K6)

Or

- (b) Describe the significance of Indian paintings in the context of cultural heritage. (CO4, K6)

15. (a) What is the significance of festivals like Kumbh Mela and Pushkar Fair in Indian culture? (CO5, K2)

Or

- (b) Four national festivals celebrated in India. Describe the importance of each. (CO5, K2)

Part C (5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Define culture and discuss its nature and importance. How does culture shape societal values and behaviors in India? (CO2, K2)

Or

- (b) Identify and explain the components of culture. How do these components contribute to the richness of Indian cultural diversity? (CO2, K2)

17. (a) What are the characteristics that define Indian culture? Provide a comprehensive definition and discuss its significance in contemporary society.
(CO2, K5)

Or

- (b) Explore the features of cultural heritage in India. How has India's cultural heritage been Preserved and promoted?
(CO2, K5)
18. (a) Discuss the cultural significance of pilgrimage sites such as Varanasi, Kailash-Manasarovar and Rameswaram. How do these sites reflect India's spiritual and cultural heritage?
(CO3, K4)

Or

- (b) Examine the historical and architectural importance of sites like Badrinath, Sanchi, and Sravanabelagola in Indian cultural heritage. What do these sites reveal about ancient Indian civilizations?
(CO3, K4)
19. (a) Trace the evolution of Indian architecture, highlighting major architectural styles, forts, and palaces. How has Indian architecture evolved over different historical periods?
(CO4, K2)

Or

- (b) Discuss the significance of Indian paintings in reflecting cultural themes and narratives. How have different painting styles contributed to India's artistic heritage?
(CO4, K2)

20. (a) Explain the significance of major Indian festivals such as Kumbh Mela, Diwali and Eid-ul-Fitr in celebrating cultural diversity and fostering communal harmony. How do these festivals contribute to social cohesion in India? (CO5, K2)

Or

- (b) Discuss the cultural importance of regional festivals like Pongal, Baisakhi and Durga Puja. How are these festivals celebrated and what do they signify? (CO5, K2)
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R2318

Sub. Code

452NM2

M.S.W. DEGREE EXAMINATION, NOVEMBER – 2024

Social Work

NME: CORPORATE SOCIAL RESPONSIBILITY

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. CSR primarily involves which of the following? (CO1, K2)
 - (a) Maximizing profits
 - (b) Stakeholder engagement
 - (c) Avoiding tax
 - (d) Environmental exploitation
2. Which of the following organizations recognizes CSR with global standards? (CO2, K1)
 - (a) ISO 14000
 - (b) FIFA
 - (c) World Bank
 - (d) Red Cross
3. Stakeholders in CSR include all the following except: (CO2, K2)
 - (a) Shareholders
 - (b) Environment
 - (c) Competitors
 - (d) Customers
4. The supply chain responsibility is part of which CSR domain? (CO1, K2)
 - (a) Environmental responsibility
 - (b) Social responsibility
 - (c) Economic responsibility
 - (d) All of the above

5. Which of the following is a key factor influencing CSR policy in an organization? (CO3, K1)
- (a) Market trends
 - (b) Stakeholder pressure
 - (c) Regulatory requirements
 - (d) All of the above
6. The TATA Council for Community Initiatives is best known for: (CO5, K2)
- (a) Product marketing
 - (b) CSR implementation
 - (c) Employee training
 - (d) None of the above
7. CSR in the marketplace focuses on: (CO4, K1)
- (a) Product safety
 - (b) Employee welfare
 - (c) Environmental protection
 - (d) Community development
8. Which is NOT a tool of CSR? (CO2, K1)
- (a) Social audits
 - (b) Sustainability reporting
 - (c) Sales forecasting
 - (d) Environmental impact assessment
9. The Companies Act, 2013 mandates CSR spending for companies with: (CO5, K2)
- (a) Revenue over ₹ 1 crore
 - (b) Net worth over ₹ 500 crore
 - (c) Net profit over ₹ 10 lakh
 - (d) Revenue over ₹ 100 crore

10. Socially responsible investing (SRI) aims to: (CO1, K1)
- (a) Maximize short-term profits
 - (b) Achieve social and environmental benefits
 - (c) Focus solely on economic returns
 - (d) None of the above

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Trace the evolution of CSR in a global context. (CO1, K3)

Or

- (b) Explain the role of public-private partnerships in CSR. (CO1, K3)

12. (a) Who are the key stakeholders in CSR, and how do their interests align? (CO2, K2)

Or

- (b) Illustrate how businesses benefit from CSR initiatives. (CO2, K3)

13. (a) What are the key factors to consider while designing a CSR policy? (CO3, K3)

Or

- (b) Explain the role of HR professionals in managing CSR within an organization. (CO3, K3)

14. (a) Specify the CSR case study of ITC's e-choupal venture. (CO3, K3)

Or

- (b) Explain the implementation of CSR in the ecological environment with examples. (CO4, K3)

15. (a) Summarize the CSR provisions under the Companies Act, 2013. (CO5, K3)

Or

- (b) Bring out the TATA model of CSR. (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Describe the concept of sustainability and its role in CSR. (CO3, K4)

Or

- (b) Discuss how corporations can engage with stakeholders for effective CSR outcomes. (CO4, K4)

17. (a) Discuss the various tools used to measure and evaluate CSR efforts in businesses. (CO2, K5)

Or

- (b) Describe the benefits of socially responsible investing (SRI) (CO2, K4)

18. (a) Design a CSR policy for a multinational corporation focusing on environment sustainability. (CO3, K6)

Or

- (b) Discuss the global recognitions of CSR, such as ISO 14000 and SA 8000. (CO3, K5)

19. (a) Evaluate the role of CSR in community development with a focus on real-world examples. (CO4, K6)

Or

- (b) Analyse the CSR case study of Lifebuoy soaps' "Swasthya Chetna" campaign. (CO4, K6)

20. (a) Elucidate the role of social workers in CSR initiatives in India. (CO5, K5)

Or

- (b) Discuss the successes and challenges of CSR initiatives at TISS Mumbai. (CO5, K5)

R2319

Sub. Code

455NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

Economics

NME – STATISTICS FOR DECISION MAKING

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions
by choosing the correct option.

1. Which measure of central tendency includes the magnitude of scores? (CO1, K1)
(a) Mean (b) Mode
(c) Median (d) Range
2. The most unstable average is (CO1, K1)
(a) Arithmetic Mean (b) Harmonic mean
(c) Median (d) Mode
3. The difference between the maximum value and minimum value of a series is known as (CO2, K2)
(a) Standard Deviation
(b) Mean Deviation
(c) Range
(d) Median

4. The graphic method of studying dispersion is (CO2, K1)
(a) Ogive curve (b) Lorenz curve
(c) Normal curve (d) None
5. An event in the probability that will never be happened is (CO3, K2)
(a) Unsure event (b) Sure event
(c) Possible event (d) Impossible event
6. F test also called as _____ (CO3, K1)
(a) Variance ratio test (b) Standard error test
(c) Z test (d) None of the above
7. The correlation for the values of two variables moving in the same direction is (CO4, K1)
(a) No correlation (b) Positive
(c) Negative (d) Perfect Negative
8. Karl Pearson's co-efficient of correlation lies between (CO4, K1)
(a) -2 to +2 (b) 0 to 1
(c) -1 to +1 (d) 0 to -1
9. Who introduced the term 'regression'? (CO5, K2)
(a) Karl Pearson (b) R.A Fischer
(c) Francis Galton (d) Croxton and Cowden

10. Regression coefficient is independent of change of
(CO5, K1)
- (a) Origin but not of scale
 - (b) Both origin and scale
 - (c) Scale but not of origin
 - (d) None of these

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Explain the requisites of a good average. (CO1, K2)

Or

- (b) The monthly consumption expenditure of five agricultural labour families in a village is Rs.100, 80, 120, 70 and 150. Find out the mean consumption expenditure. (CO1, K3)

12. (a) Describe the co-efficient of variation. (CO2, K2)

Or

- (b) The following are the marks of B.A Economic.
Find the range and coefficient of range. (CO2, K3)

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Students	13	6	9	11	10	18	23	10

13. (a) Elucidate the significance of chi-square test in social science research. (CO3, K2)

Or

- (b) What is t test and F test? In which situation these are applied? (CO3, K2)

14. (a) Compute the Karl Pearson's co-efficient of correlation. (CO4, K3)

X 65 66 67 67 68 69 71 73

Y 67 68 64 68 72 70 69 70

Or

- (b) Describe the Spearman's rank correlation coefficient and give the formula. (CO4, K2)

15. (a) What are the uses of regression analysis? (CO5, K2)

Or

- (b) Explain how to interpret the value of R and R-square in regression analysis. (CO5, K2)

Part C (5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Explain the merits and demerits of arithmetic mean. (CO1, K3)

Or

- (b) Calculate the median from the following data: (CO1, K5)

Size 10 12 14 16 18 20 22

Frequency 40 52 56 60 65 70 80

17. (a) Discuss the different measures of dispersion and point out their utility. (CO2, K2)

Or

- (b) Compute the Standard deviation of the following distribution: (CO2, K5)

Class (X)	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency (Y)	8	12	17	14	9	7	4

18. (a) Briefly explain the importance of probability in managerial decision making. (CO3, K4)

Or

- (b) Illustrate the binominal distribution with the help of an example. (CO3, K3)

19. (a) Interpret the difference between correlation and regression analyses. (CO4, K2)

Or

- (b) Calculate correlation coefficient of concurrent deviation from the following data: (CO4, K4)

Price	368	384	385	361	347	384	395	403	400	385
Imports	22	21	24	20	22	26	24	29	28	27

20. (a) Construct two regression equations from the data given below: (CO5, K4)

X	9	6	5	7	8	30
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Y	20	15	25	30	35	100
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Or

- (b) Define Average Annual Growth Rate (AAGR) and Compound Annual Growth Rate (CAGR). What are its usefulness? (CO5, K3)

R2320

Sub. Code

458NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

Gender Studies

NME – LIFE SKILL EDUCATION

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions
by choosing the correct option.

1. What is the most effective way to manage time? (CO1, K1)
 - (a) Procrastinating tasks until the last minute
 - (b) Multitasking as much as possible
 - (c) Ignoring deadlines and working at your own pace
 - (d) Creating a schedule and prioritizing tasks
2. What is a good strategy for effective goal setting? (CO1, K1)
 - (a) Setting specific, measurable, achievable, relevant, and time-bound (SMART) goals
 - (b) Setting vague and broad goals
 - (c) Setting unrealistic and high-pressure goals
 - (d) Not setting any goals and going with the flow

3. How does a good leader handle mistakes made by team members? (CO2, K1)
- (a) Punishing them harshly
 - (b) Ignoring the mistakes
 - (c) Publicly criticizing them
 - (d) Providing constructive feedback and support
4. Which of the following best describes the role of a good leader in team development? (CO2, K1)
- (a) Mentoring and guiding team members to reach their potential
 - (b) Focusing solely on their own advancement
 - (c) Encouraging competition among team members
 - (d) Micromanaging every aspect of the team's work
5. What is a key characteristic of creative thinking? (CO3, K2)
- (a) Following established rules strictly
 - (b) Generating novel and original ideas
 - (c) Relying solely on logical reasoning
 - (d) Avoiding risks and uncertainty
6. Which of the following best describes critical thinking? (CO3, K1)
- (a) Accepting information at face value
 - (b) Focusing only on imaginative ideas
 - (c) Analyzing and evaluating information to form a reasoned judgment
 - (d) Ignoring evidence that contradicts personal beliefs

7. Which habit is essential for effective personal development? (CO4, K2)
- (a) Avoiding feedback from others
 - (b) Setting and achieving personal goals
 - (c) Relying solely on past successes
 - (d) Maintaining a fixed mind-set
8. What is a key benefit of lifelong learning for personal development? (CO4, K1)
- (a) It helps you stay competitive and adaptable in a changing world
 - (b) It keeps you occupied without any real benefits
 - (c) It only benefits your professional life
 - (d) It ensures you never have free time
9. Which dimension of advocacy focuses on building relationships with stakeholders and allies? (CO5, K1)
- (a) Resource management
 - (b) Coalition building
 - (c) Time management
 - (d) Policy analysis

10. What role does public awareness play in advocacy?
(CO3, K1)
- (a) It is irrelevant to most advocacy efforts
 - (b) It is only necessary for large-scale campaigns
 - (c) It should be avoided to maintain privacy
 - (d) It helps mobilize public support and influence decision-makers

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Write a short note self-awareness. (CO1, K3)

Or

- (b) Explain problem solving. (CO1, K3)

12. (a) Briefly explain the skills of a good leader. (CO2, K3)

Or

- (b) Explain the essentials of effective speaking.
(CO2, K3)

13. (a) Analyse the importance of problem solving in leadership. (CO3, K4)

Or

- (b) Examine the strength of team building. (CO3, K4)

14. (a) Examine on yoga and meditation as a stress management. (CO4, K4)

Or

- (b) Explain the importance of self-motivation. (CO4, K3)

15. (a) Write a short note on advocacy tools. (CO5, K3)

Or

- (b) Explain the advocacy effectiveness. (CO5, K3)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain the methods of enhancing life skills. (CO1, K3)

Or

- (b) Write a short note on critical thinking. (CO1, K3)

17. (a) Explain the different types of leadership styles. (CO2, K3)

Or

- (b) Compare leadership and management. (CO2, K3)

18. (a) Briefly explain verbal and non-verbal communication. (CO3, K3)

Or

- (b) Write a note on negotiation. (CO3, K3)

19. (a) Write a short note on presentation skills. (CO4, K4)

Or

(b) Explain any two personal development skills.
(CO4, K3)

20. (a) Explain any two dimensions of advocacy. (CO5, K3)

Or

(b) Explain different forms of advocacy. (CO5, K3)

R2321

Sub. Code

461NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Oceanography and Coastal Area Studies

NME – MARINE RESOURCES

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. _____ is located between continental break and abyssal rise. (CO1, K2)
 - (a) Continental shelf
 - (b) Continental slope
 - (c) Coast
 - (d) Abyssal plain
2. Which is the major transport agent of the terrigenous deposits? (CO1, K2)
 - (a) Water
 - (b) Wind
 - (c) Glacial
 - (d) Gravity

3. The phosphorite is majorly composed of _____.
(CO2, K3)
- (a) Quartz
 - (b) Apatite
 - (c) Muscovite
 - (d) Calcite
4. The Manganese nodules are found in _____.
(CO2, K3)
- (a) Continental shelf
 - (b) Continental slope
 - (c) Coast
 - (d) Abyssal plain
5. How long extended EEZ from the shore? (CO3, K3)
- (a) 200 nautical miles
 - (b) 240 nautical miles
 - (c) 270 nautical miles
 - (d) 300 nautical miles
6. Which of the following is used to catch the pelagic fishes?
(CO3, K3)
- (a) Hand line boat
 - (b) Trolling vessel
 - (c) Motorized boat
 - (d) Trawlers

7. Which of the following marine drug is used for cancer treatment: (CO4, K4)
- (a) Antipyretics (b) Cytarabine
(c) Analgesics (d) Sedatives
8. Which of the following is not a class of bioactive metabolite from marine algae? (CO4, K4)
- (a) Brominated phenols
(b) Oxygen heterocyclics
(c) Prostaglandins
(d) Nitrogen heterocyclics Parasitism
9. Which of the following is the most severe form of food poisoning caused by the ingestion of seafood? (CO5, K2)
- (a) Paralytic shellfish poisoning
(b) Amnesic shellfish poisoning
(c) Ciguatera
(d) Diarrheic shellfish poisoning
10. What is the color of carotenoid? (CO5, K2)
- (a) Yellow (b) Black
(c) Blue (d) Green

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Draw neat sketch on ocean topography with names. (CO1, K2)

Or

- (b) Differentiate terrigenous and biogenic deposits with examples. (CO1, K2)

12. (a) Write short notes on mineral richness in Black sea.
(CO2, K3)

Or

- (b) Why manganese nodules are important and write about their exploration (CO2, K3)
13. (a) State that how EEZ useful for fishing in coastal countries. (CO3, K3)

Or

- (b) Categoriesthe gears which are used for fishing methods. (CO3, K3)
14. (a) Pivot the importance of marine drugs and give some organism name to extract marine drugs. (CO4, K4)

Or

- (b) Illustrate the bioactive compound extracted from the marine living organisms. (CO4, K4)
15. (a) Analyze the potential consequences marine organisms venom. (CO5, K4)

Or

- (b) Explain the importance of marine living resources in Pharmacological. (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Outline the mineral deposits along the continental shelf and slope region of the ocean topography.
(CO1, K2)

Or

- (b) Explain in details about the allogenic and antigenic.
(CO1, K2)

17. (a) Distinguish Marine phosphorites and Marine Sulfide.
(CO2, K2)

Or

- (b) Interpret the role of different methods in the exploration of seafloor minerals deposits. (CO2, K2)

18. (a) Articulate the concept of Profitable vessel management and requirement. (CO3, K3)

Or

- (b) Write about the different modern craft used in India for marine fishing. (CO3 K3)

19. (a) Analyze how the marine drugs used for Indian economy development. (CO4, K4)

Or

- (b) Explain the bioactive compounds and antibiotic compounds from marine organisms. (CO4, K4)

20. (a) Categorize the different Toxin from marine animals.
(CO5, K4)

Or

- (b) Explain the concept of Pharmacological and toxicological properties from marine organisms provide example.
(CO5, K4)
-

R2322

Sub. Code

464NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Applied Geology

**NME – REMOTE SENSING AND GEOGRAPHIC
INFORMATION SYSTEMS**

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. Which property of aerial photos involves the accuracy of the spatial relationship between objects? (CO2, K2)
 - (a) Contrast
 - (b) Color balance
 - (c) Resolution
 - (d) Geometric fidelity

2. The photographic scale of an aerial photo is primarily determined by: (CO2, K2)
 - (a) Aircraft altitude
 - (b) Camera focal length
 - (c) Sun angle
 - (d) Weather conditions

3. What is remote sensing primarily used for? (CO1, K1)
- (a) Direct measurement
 - (b) Physical sampling
 - (c) Indirect observation
 - (d) Manual surveying
4. What does EMR stand for in remote sensing? (CO1, K1)
- (a) Electromagnetic Range
 - (b) Electromagnetic Reflectance
 - (c) Electromagnetic Radiation
 - (d) Electromechanical Resonance
5. Which satellite series is known for providing multispectral data for earth observation? (CO1, K1)
- (a) GPS
 - (b) LANDSAT
 - (c) GLONASS
 - (d) GOES
6. What type of resolution refers to the ability of a sensor to distinguish between different wavelengths of light? (CO2, K2)
- (a) Spectral
 - (b) Radiometric
 - (c) Spatial
 - (d) Temporal
7. What does GIS stand for? (CO1, K1)
- (a) Geographic Information System
 - (b) Geographic Integrated System
 - (c) General Information System
 - (d) Global Information System

8. Which of the following is a basic component of GIS?
(CO1, K1)
- (a) Data storage
 - (b) Data analysis
 - (c) Data visualization
 - (d) All of the above
9. What does DEM stand for in geographic data analysis?
(CO2, K2)
- (a) Digital Estimation Model
 - (b) Data Evaluation Method
 - (c) Digital Elevation Model
 - (d) Digital Environment Map
10. Which analysis involves calculating the visible area from a specific point in a DEM?
(CO1, K1)
- (a) Line of sight
 - (b) Contour
 - (c) Volume estimation
 - (d) Slope

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Assess the importance of photogrammetry in modern mapping and surveying. (CO2, K2)
- Or
- (b) Choose and explain two types of aerial photographs and their specific applications. (CO3, K3)

12. (a) Compare the spectral signatures of soil and vegetation. How are they different and why?
(CO3, K4)

Or

- (b) Determine how atmospheric windows influence remote sensing data collection. (CO5, K5)
13. (a) Assess the significance of spectral resolution in satellite data acquisition and its impact on data quality. (CO6, K6)

Or

- (b) Determine the advancements in remote sensing technology with the development of high-resolution satellites like IKONOS and QuickBird. (CO5, K5)
14. (a) Assess the importance of GIS in modern geographic studies and decision-making processes. (CO4, K4)

Or

- (b) Choose and explain the differences between raster and vector data structures in GIS. (CO4, K4)
15. (a) Compare Digital Elevation Models (DEM) and Digital Terrain Models (DTM) in terms of their data content and applications. (CO2, K3)

Or

- (b) Determine the advantages of Real-Time Kinematic (RTK) navigation systems over traditional GPS mapping techniques. (CO4, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Evaluate the role of flight planning in ensuring accurate and effective aerial photography. Discuss the key components involved. (CO3, K3)

Or

- (b) Explain the concept of parallax relief displacement and vertical exaggeration in stereoscopy. How do they contribute to the interpretation of aerial photographs? (CO5, K5)

17. (a) Interpret the key elements and interpretation keys used in remote sensing image analysis. Discuss their importance in accurate data interpretation. (CO4, K4)

Or

- (b) Justify the use of specific spectral signatures in remote sensing for environmental monitoring and land cover classification. (CO4, K4)

18. (a) Evaluate the development of remote sensing technology in India, focusing on the contributions of the IRS series of satellites. (CO5, K5)

Or

- (b) Explain the principles and applications of thermal, near-infrared and microwave remote sensing. (CO3, K3)

19. (a) Evaluate the components of GIS and their roles in the functioning of a in Agricultural area. (CO3, K3)

Or

- (b) Explain the processes of data conversion between raster and vector formats. Discuss the challenges and considerations involved in these conversions. (CO3, K3)

20. (a) Interpret the significance of differential GPS and Real-Time Kinematic (RTK) navigation systems in modern surveying and mapping. (CO3, K3)

Or

- (b) Justify the use of drainage analysis and line-of-sight studies in terrain analysis using DEMs. (CO4, K4)
-

R2323

Sub. Code

508NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Biomedical Sciences

NME : MOLECULAR ADVANCED DIAGNOSTICS

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by
choosing the correct option.

1. Which of the following is a zoonotic viral disease?
(CO1, K2)
 - (a) Influenza
 - (b) Cholera
 - (c) Rabies
 - (d) Dengue
2. Maple syrup urine disease is caused by a defect in the metabolism of which of the following?
(CO1, K2)
 - (a) Fatty acids
 - (b) Branched-chain amino acids
 - (c) Nucleic acids
 - (d) Sugars
3. Metagenomics is a technique used in culture-independent bacterial analysis that focuses on :
(CO4, K2)
 - (a) Growing all bacteria in a given environment
 - (b) Sequencing entire microbial genomes in a sample
 - (c) Identifying protein expression in bacterial colonies
 - (d) Analyzing bacteria using microscopy

4. Which type of microarray is commonly used for the detection of copy number variations (CNVs) in the genome? (CO2, K4)
- (a) Expression microarray
 - (b) SNP microarray
 - (c) Array Comparative Genomic Hybridization (aCGH)
 - (d) Protein microarray
5. The antigen retrieval step in IHC is used to : (CO5, K5)
- (a) Inactivate endogenous peroxidases
 - (b) Cross-link proteins to prevent diffusion
 - (c) Unmask antigenic epitopes that may be hidden due to fixation
 - (d) Detect nonspecific binding
6. What is the typical application of microarrays in prenatal cytogenetic screening? (CO2, K4)
- (a) Screening for balanced chromosomal translocations
 - (b) Detecting whole genome aneuploidies
 - (c) Detecting submicroscopic copy number variations
 - (d) Analyzing mitochondrial DNA mutations
7. In DCGE, the migration of DNA through the gel is dependent on : (CO4, K2)
- (a) The size of the DNA fragments only
 - (b) The GC content and sequence of the DNA fragments
 - (c) The presence of restriction enzymes
 - (d) The total length of the DNA molecule

8. In health informatics, what does PACS stand for?
(CO3, K4)
- (a) Patient Assessment and Care System
 - (b) Picture Archiving and Communication System
 - (c) Patient Analytics and Clinical System
 - (d) Physician Administrative Coordination System
9. Which of the following molecules are critical in Sanger sequencing for terminating the DNA chain? (CO4, K2)
- (a) Deoxyribonucleotides (dNTPs)
 - (b) Dideoxyribonucleotides (ddNTPs)
 - (c) Ribosomal RNA
 - (d) Primase
10. In a competitive immunoassay, the signal intensity is inversely proportional to the concentration of the analyte. This means : (CO5, K5)
- (a) The higher the analyte concentration, the stronger the signal
 - (b) The higher the analyte concentration, the weaker the signal
 - (c) Signal intensity is not affected by analyte concentration
 - (d) The signal decreases linearly with time

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Write a note on factors predisposing to microbial pathogenicity. (CO1, K2)
- Or
- (b) Discuss in detail about fluorescent *in situ* hybridization. (CO2, K4)

12. (a) Explain the principle of MLPA and its application in detecting copy number variations (CNVs).
(CO2, K4)

Or

- (b) Explain the significance of the threshold cycle (Ct) value in Real-time PCR and its application in quantifying the nucleic acids. (CO2, K4)
13. (a) How are SNPs detected and genotyped using molecular techniques? (CO2, K4)

Or

- (b) Describe the principle of Single-Strand Conformation Polymorphism (SSCP) analysis and how it is used to detect mutations. (CO2, K4)
14. (a) Discuss in detail about Ethics in medical informatics. (CO3, K4)

Or

- (b) Describe the principle of western blotting and outline the major steps involved in the process. (CO4, K2)
15. (a) Describe the methods used for HLA typing. (CO5, K5)

Or

- (b) Describe the difference between direct and indirect methods of detection in immunohistochemistry (IHC). (CO5, K5)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Describe in detail about the methods of clinical specimen collection, transport and processing of samples. (CO1, K2)

Or

- (b) Explain the principle, methodology, and applications of cytogenetic studies using BACs-on-Beads technology. (CO2, K4)
17. (a) Discuss the role of medical transcription in healthcare and how informatics can enhance the services provided by pharmaceutical care providers. (CO3, K4)

Or

- (b) Explain the principle of Polymerase Chain Reaction (PCR), its standard procedure, and discuss the various modifications of PCR used for specialized applications. (CO2, K4)
18. (a) Explain the principle and methodology of Amplified Ribosomal DNA Restriction Analysis (ARDRA) and discuss its significance in culture-independent analysis of bacterial communities. (CO4, K2)

Or

- (b) Explain the principle of Multiplex PCR and its applications in paternity determination, human identification, and sex determination. (CO4, K2)

19. (a) Describe the structure, types, and functions of the Major Histocompatibility Complex (MHC). Explain its significance in immune response and transplantation immunology. (CO5, K5)

Or

- (b) Describe the principle, types, and applications of Enzyme-Linked Immunosorbent Assay (ELISA). Explain its significance in clinical diagnostics and research. (CO5, K5)
20. (a) Discuss the different levels of biosafety and containment in laboratories handling biological materials. (CO5, K5)

Or

- (b) Discuss the principles, methods, and applications of DNA sequencing. (CO4, K2)
-

R2324

Sub. Code

509NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Zoology

NME : FOOD PROCESSING TECHNOLOGY

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions
by choosing the correct option.

1. Milk can be preserved by _____. (CO1, K2)
 - (a) Pasteurization
 - (b) Freezing
 - (c) Chemical preservatives
 - (d) Drying

2. _____ enzyme is used as an index of super-HTST pasteurization? (CO1, K1)
 - (a) Catalase
 - (b) Lipase
 - (c) None of these
 - (d) Lactoperoxidase

3. What are main objectives of the chilling the meat (CO2, K1)
- (a) Retard bacterial growth in the meat
 - (b) Extend the shelf-life of the meat
 - (c) Retard bacterial growth and extend the shelf-life
 - (d) Retard bacterial growth and Decrease color stability
4. Which of the following is also called as conditioning process (CO2, K2)
- (a) Freezing process
 - (b) Boiling process
 - (c) Ageing process
 - (d) Curing process
5. Sun drying heavily depends on the (CO3, K2)
- (a) Fish varieties
 - (b) Wind
 - (c) None of the above
 - (d) Weather condition
6. Fruit, meat and milk are preserved at room temperature by the process of (CO4, K2)
- (a) Pasteurization
 - (b) Dehydration
 - (c) Freezing
 - (d) Vernalisation

7. During refrigeration this happens? (CO4, K3)
- (a) Removal of moisture from the product
 - (b) Addition of moisture to the product
 - (c) Removal of unwanted heat from the product
 - (d) Addition of heat to the product
8. The primary function of antioxidants in fruit processing is (CO4, K2)
- (a) Enhance flavor
 - (b) Extend shelf life
 - (c) Improve texture
 - (d) Increase nutritional content
9. Which of the following is not related to food safety management system (CO5, K3)
- (a) Good handling practices (GHP)
 - (b) Good manufacturing practices (GMP)
 - (c) Hazard analysis critical control points (HACCP)
 - (d) Risk of injury
10. Which one of the following organic acids used in food preservation? (CO5, K2)
- (a) Sulphuric acid
 - (b) Boric acid
 - (c) Hydrochloric acid
 - (d) Sorbic acid

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Discuss briefly about Pasteurization. (CO1, K3)

Or

- (b) Write short note on national status of dairy processing. (CO1, K2)

12. (a) Write short note on poultry meat processing.

(CO2, K2)

Or

- (b) Briefly mention about the international status of meat processing. (CO2, K2)

13. (a) Write a short note on chilling fish processing?

(CO3, K2)

Or

- (b) Briefly discuss about the smoking fish preservation.

(CO3, K3)

14. (a) Briefly discuss about the role of QA and QC.

(CO4, K4)

Or

- (b) Discuss about the methods followed in fruit storage.

(CO4, K3)

15. (a) Write a brief account on food adulterant acts.

(CO5, K3)

Or

- (b) Give a brief account on HACCP.

(CO5, K3)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Write an essay on different types of milk preservation methods. (CO1, K3)

Or

- (b) Write an essay on the National and International status of milk processing. (CO4, K3)

17. (a) Give an account on National and International status of poultry meat processing. (CO2, K3)

Or

- (b) Explain different curing ingredients used in meat curing. (CO1, K3)

18. (a) Discuss about the different types of seafood processing techniques. (CO3, K4)

Or

- (b) Write an essay about canning fish processing. (CO3, K3)

19. (a) Give an account on different types of method involved in vegetable processing. (CO4, K3)

Or

- (b) What are the different dehydration techniques used for fruits and vegetables? (CO4, K3)

20. (a) Discuss about food spoilage, food preservation and preservation acts. (CO5, K5)

Or

- (b) Discuss what good manufacturing practices (GMP) need to follow in the food industry. (CO5, K3)
-

R2325

Sub. Code

515NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

Journalism and Mass Communication

**NME : FUNDAMENTALS OF AUDIO AND
VIDEO PRODUCTION**

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer the following objective type questions
by choosing the correct option.

1. What is the primary purpose of an acoustically treated studio? (CO1, K2)
 - (a) To enhance the visual appeal
 - (b) To improve sound quality by reducing unwanted noise
 - (c) To increase the volume of sound
 - (d) To provide more space for equipment
2. The ————— is responsible for sending processed audio signals over a distance in the broadcast chain. (CO1, K2)
 - (a) Receiver
 - (b) Transmitter
 - (c) Amplifier
 - (d) Microphone

3. Which microphone type is most commonly used for recording interviews? (CO2, K4)
- (a) Lavalier microphone
 - (b) Shotgun microphone
 - (c) Ribbon microphone
 - (d) Condenser microphone
4. Programs targeting _____ often focus on educational content and practical information relevant to their daily lives. (CO2, K4)
- (a) Rural folk (b) Children
 - (c) Youth (d) Industrial workers
5. Who is mainly responsible for assisting the director and handling administrative tasks during the production? (CO3, K5)
- (a) Cameraman
 - (b) Production Assistant
 - (c) Producer
 - (d) Art Director
6. The _____ is tasked with the setup and maintenance of the studio equipment, ensuring everything runs smoothly during the broadcast. (CO3, K5)
- (a) Technical Director
 - (b) Producer
 - (c) Cameraman
 - (d) Production Assistant

7. The term _____ refers to the technique of recording audio separately from video and syncing it during post-production. (CO4, K1)
- (a) ADR (Automated Dialogue Replacement)
 - (b) Foley
 - (c) Voice-over
 - (d) Dubbing
8. What is the primary purpose of using a voice-over in a documentary? (CO4, K2)
- (a) To add background music
 - (b) To provide narration and context
 - (c) To create visual effects
 - (d) To record live interviews
9. Experimentation in educational production primarily aims to: (CO5, K6)
- (a) Meet production deadlines
 - (b) Enhance the creative and instructional effectiveness of the content
 - (c) Reduce the overall budget
 - (d) Finalize the distribution channels
10. Which technique is commonly used during editing to ensure smooth transitions between scenes? (CO5, K6)
- (a) Cross-fading
 - (b) Cutaway shots
 - (c) Voice-over narration
 - (d) Color grading

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Explain the key differences between the roles of a producer and a cameraman during an outdoor video production. (CO3, K5)

Or

- (b) Explain the importance of room acoustics in a recording studio. (CO1, K2)

12. (a) Describe the basic setup for recording a high-quality interview. (CO2, K4)

Or

- (b) Describe the primary functions of a tripod in video shooting. How does its use impact the stability and quality of the footage? (CO4, K4)

13. (a) Discuss the role of amplifiers in audio receivers and how they impact sound quality. (CO1, K2)

Or

- (b) Identify and describe three types of camera shots and their typical uses in documentary filmmaking. (CO4, K4)

14. (a) Describe the responsibilities of a production assistant during a location survey for a video shoot. (CO3, K5)

Or

- (b) Identify and explain the significance of script writing in the production of educational programs. How does a well-written script enhance the educational value of the content? (CO5, K6)

15. (a) What techniques are used to ensure consistent sound quality across different music tracks?

(CO2, K4)

Or

- (b) Discuss the role of audience analysis in the production of educational content. How can understanding the audience's needs and preferences influence the content and delivery methods?

(CO5, K6)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain how the needs of rural folk might influence the content and production style of a radio program designed for them.

(CO2, K4)

Or

- (b) Discuss the significance of writing for a program in video production. What are the key elements that should be considered when crafting a script for a documentary versus a short film?

(CO4, K4)

17. (a) Compare and contrast different types of recording studios and discuss how each type is suited to specific program formats.

(CO1, K2)

Or

- (b) List and explain the primary responsibilities of a cameraman in video production. How do these responsibilities vary between studio shoots and outdoor locations?

(CO3, K5)

18. (a) Explain the different methods of delivery used in educational productions. How can each method be utilized to enhance audience engagement and learning outcomes? Provide examples. (CO5, K6)

Or

- (b) Describe the process and considerations involved in conducting a location survey for an outdoor video shoot. What factors must be assessed to ensure a successful production? (CO3, K5)
19. (a) Outline the key components of a broadcast chain. Explain the role of each component in ensuring the delivery of high-quality audio content to the audience. (CO1, K2)

Or

- (b) Define the process of recording a musical score for a video production. How does the musical score contribute to the emotional tone and narrative of the final product? (CO4, K4)
20. (a) Describe the key elements that should be considered when selecting a script for an educational production. How do these elements contribute to the effectiveness of the production in achieving its educational goals? (CO5, K6)

Or

- (b) Describe the process of setting up audio equipment for recording a live music performance intended for radio broadcast. (CO2, K4)
-

R2326

Sub. Code

518NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

Life Skill Education

NME – PROFESSIONAL CAREER AND DEVELOPMENT

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following questions by choosing the correct option.

1. Personality is thought to be _____. (CO1, K2)
 - (a) Short term and easily changed
 - (b) A pattern of short-term characteristics
 - (c) Unstable and short term
 - (d) Long term, stable and not easily changed

2. The long-standing traits and patterns that propel individuals to consistently think, feel and behave in specific ways are known as _____. (CO1, K2)
 - (a) Psychodynamic
 - (b) Temperament
 - (c) Humors
 - (d) Personality

3. One of the most important communication skills
(CO2, K3)
- (a) Empathic listening
 - (b) Inactive listening
 - (c) Objective listening.
 - (d) Active listening.
4. Persons who attribute much of the cause of what happens to them to control from within themselves are said to have
(CO2, K3)
- (a) An internal locus of control
 - (b) An external locus of control
 - (c) An internal locum of control
 - (d) An external locum of control
5. The three major element of presentation do not include?
(CO3, K4)
- (a) An audience
 - (b) Specific content
 - (c) A presenter
 - (d) Visual aid
6. Which of these should be avoided for an effective speech?
(CO3, K4)
- (a) Determination of the purpose
 - (b) Selection of message
 - (c) Lack of interest
 - (d) Selection of theme

7. The main keys to managing stress are (CO4, K3)
- (a) Recognizing and understanding the signs of stress
 - (b) Identifying sources of stress
 - (c) Identifying what we can and can't control
 - (d) All of the above
8. Learning to support yourself during stressful situations beyond your control will _____ the effects of stress (CO4, K3)
- (a) Diminish
 - (b) Increase
 - (c) Enhance
 - (d) None of the above
9. Which of the following is true, in general, in regard to groups? (CO5, K5)
- (a) A group is characterized by the independence of its members.
 - (b) A group typically lacks definite roles and structures.
 - (c) A group influences our emotional reactions.
 - (d) An informal gathering cannot be considered a group.
10. In the context of the social identity theory, people have to the failure or success of group members. (CO5, K5)
- (a) Angry reactions
 - (b) Lack of empathy or pride
 - (c) Emotional withdrawal
 - (d) Emotional reactions

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Outline : Foundations of Personality Development.
(CO1, K2)

Or

- (b) Relate the SWOT Analysis and Scope. (CO1, K2)
12. (a) Distinguish between to Interpersonal Relationships
and Social Psychology. (CO2, K3)

Or

- (b) Expand: Evolution and Human Relationship.
(CO2, K3)
13. (a) Interpret the Problems in Facing Interview and
Interview Techniques. (CO3, K4)

Or

- (b) Construct the Effective Public Speaking Skills.
(CO3, K4)
14. (a) Outline Attitude towards Life. (CO4, K3)
- Or
- (b) Summarise: Techniques for Managing Stress and
Time. (CO4, K3)

15. (a) Assess Group Dynamics. (CO5, K5)

Or

- (b) Illustrate Effective participation in Group discussion. (CO5, K5)

Part C (5 × 8 = 40)

Answer **all** questions.

Answer **all** the questions not more than 1000 words each.

16. (a) Explain: Self-Esteem and Self- Knowledge with suitable diagram. (CO1, K2)

Or

- (b) Detailed the Scope and Types of Personality with suitable situations. (CO1, K2)

17. (a) Elaborate the types of Relationships. (CO2, K3)

Or

- (b) Examine the role of Human Behaviour and Relationship with suitable Hypothesis. (CO3, K4)

18. (a) Interpret the CV Preparation. (CO3, K4)

Or

- (b) Construct the Soft Skills. (CO4, K3)

19. (a) Outline Achievement Motivation. (CO4, K3)

Or

- (b) Summarise: Coping with Stress (CO4, K3)

20. (a) Discuss: Participating in Group discussions.
(CO5, K5)

Or

- (b) Illustrate types and characteristics of a Group.
(CO5, K5)
-

R2327

Sub. Code

525NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Botany

**NME : COMMERCIAL GARDENING AND
HORTICULTURE**

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing
the correct option.

1. Stage at which seed achieves its maximum dry weight and has maximum germination potential and vigour is
(CO1, K1)
 - (a) Physiological Maturity
 - (b) Edible Maturity
 - (c) Harvest Maturity
 - (d) None of above
2. Cracking in tomato fruit is due to (CO1, K2)
 - (a) High nitrogen level
 - (b) Temperature fluctuations
 - (c) Soil moisture fluctuations
 - (d) All of these
3. Researchers describe seed moisture content in terms of (CO2, K1)
 - (a) Dry weight (b) Wet weight
 - (c) Percent weight (d) (a) and (b)

4. During stratification, the most important factor is (CO2, K1)
- (a) Temperature (b) Duration
(c) Media (d) all of above
5. The most ancient type of garden is (CO3, K2)
- (a) Kitchen garden (b) Market garden
(c) Vegetable garden (d) Floating garden
6. Disease free plants in micro propagation can be obtained through _____. (CO3, K1)
- (a) Meristem culture (b) Anther culture
(c) Embryo culture (d) Cell culture
7. Making an incision below a bud to retard its growth. (CO4, K2)
- (a) nicking (b) ringing
(c) notching (d) thinning
8. Which of the following is used for pruning of vines? (CO4, K1)
- (a) Grafting knife
(b) Shear
(c) Pneumatic secateurs
(d) Dah
9. National Horticulture Mission was launched in which of the following years? (CO5, K2)
- (a) 2001-02 (b) 2005-06
(c) 2007-08 (d) 2010-11
10. Which one of the following is not a characteristic feature of plantation agriculture? (CO5, K2)
- (a) large capital investment
(b) managerial and technical support
(c) scientific methods of cultivation
(d) multiple crop specialization

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Describe the classifications and important cultivation and Management. (CO1, K1)

Or

- (b) Write a short notes on pruning and training techniques in horticulture. (CO1, K4)

12. (a) Describe the propagation techniques, ensure plant successful development. (CO2, K3)

Or

- (b) Clarify layering and grafting techniques in horticulture and applications. (CO2, K1)

13. (a) Differentiate between a water garden and indoor garden. (CO3, K3)

Or

- (b) Explain terraced gardening methods and uses. (CO3, K3)

14. (a) How does floral arrangements and principles of flower arranging? (CO4, K2)

Or

- (b) Discuss about the Ikben arrangement and uses. (CO4, K3)

15. (a) What are the various aspects of crop protection in agriculture? (CO5, K3)

Or

- (b) What are the steps involved preparation and processing of tomato ketchup? (CO5, K2)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) What are the various types of manure used in horticulture, and how are they applied to enhance crop productivity? (CO1, K2)

Or

- (b) What is the significance of horticulture and various types of garden implements used in horticulture practices? (CO1, K1)

17. (a) Explain the process of cutting layering and grafting with example. (CO2, K3)

Or

- (b) Describe about the plant propagation and their techniques and their advantages. (CO2, K2)

18. (a) What are the steps involved in starting a successful kitchen garden? (CO3, K4)

Or

- (b) What are the challenges in training and maintaining bonsai trees over several decades? (CO3, K2)

19. (a) What are the basic principles of Ikebana and flower arrangements? (CO4, K3)

Or

- (b) Explain the steps in flower arrangement methods. (CO4, K2)

20. (a) Write a detail note on International research institute dealing with crop varieties. (CO5, K5)

Or

- (b) Briefly explain the preparation and processing of tomato ketchup and jam with its storage method. (CO5, K2)

R2328

Sub. Code

530NM4

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Microbiology

NME : FOOD AND INDUSTRIAL MICROBIOLOGY

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by
choosing the correct option.

1. What is the primary bacterial culture used in the fermentation of yogurt? (CO1, K3)
 - (a) *Lactobacillus acidophilus*
 - (b) *Streptococcus thermophilus*
 - (c) *Lactococcus lactis*
 - (d) *Leuconostoc mesenteroides*

2. What enzyme is commonly used to coagulate milk in cheese production? (CO1, K3)
 - (a) Amylase
 - (b) Protease
 - (c) Lipase
 - (d) Rennin

3. *Staphylococcus aureus* can cause food poisoning through the production of _____. (CO2, K2)
- (a) Exotoxins
 - (b) Endotoxins
 - (c) Spores
 - (d) Hemolysins
4. Which fungal toxin is associated with an increased risk of liver cancer? (CO2, K2)
- (a) Fumonisin
 - (b) Zearalenone
 - (c) Ochratoxin
 - (d) Aflatoxin
5. Which method is commonly used for the initial isolation of potential industrial microbes from environmental samples? (CO3, K4)
- (a) PCR (Polymerase Chain Reaction)
 - (b) Flow cytometry
 - (c) Serial dilution and plating
 - (d) Gel electrophoresis
6. Which of the following is a common characteristic sought in industrial microbes used for biofuel production? (CO3, K4)
- (a) Low oxygen requirement
 - (b) High acid tolerance
 - (c) High lipid content
 - (d) High antibiotic production

7. What is the primary use of fungal single-cell protein (SCP) in industry? (CO4, K1)
- (a) Food preservatives
 - (b) Antibiotic production
 - (c) Animal feed
 - (d) Food flavoring
8. Which stage of beer production involves the conversion of starches to fermentable sugars? (CO4, K1)
- (a) Conditioning
 - (b) Fermentation
 - (c) Boiling
 - (d) Mashing
9. What is the primary goal of screening in the context of fermented product purification? (CO5, K5)
- (a) To select high-yield producing microbial strains
 - (b) To identify pathogenic organisms
 - (c) To enhance the flavor of the product
 - (d) To determine the pH level of the product
10. Which of the following is a common initial step in the purification of extracellular fermented products? (CO5, K5)
- (a) Crystallization
 - (b) Centrifugation
 - (c) Ultrafiltration
 - (d) Precipitation

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words.

11. (a) Why do we need to preserve foods? Explain in brief.
(CO1, K3)

Or

- (b) Write a short note on the production of fermented dairy products such as cheese and yogurt. (CO1, K3)
12. (a) Elucidate in detail about the bacterial food borne infections and intoxications. (CO2, K2)

Or

- (b) Explain the microbial spoilage of meat and meat products. (CO2, K2)
13. (a) Write a short note on the range of fermentation processes. (CO3, K4)

Or

- (b) Describe the methods of media optimization. (CO3, K4)
14. (a) Give an account of single-cell proteins. (CO4, K1)

Or

- (b) Explain the microbial production of wine. (CO4, K1)
15. (a) Write a short note on the drying process of fermented products. (CO5, K5)

Or

- (b) Describe in a detailed note the downstream processing. (CO5, K5)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Explain the role and significance of microorganisms in foods. (CO1, K3)

Or

- (b) Write a detailed account for the production of fermented vegetables and dairy products. (CO1, K3)
17. (a) Describe the preservation and spoilage of cereal and cereal products. (CO2, K2)

Or

- (b) Explain in detail the most common bacterial food-borne diseases. (CO2, K2)
18. (a) Explain the isolation, detection, preservation, and strain improvement of industrially important microbes. (CO3, K4)

Or

- (b) Describe in detail the classification of fermentation types. (CO3, K4)
19. (a) Discuss in detail the alcoholic beverage beer production. (CO4, K1)

Or

- (b) Explain the microbial production of citric acid and its application. (CO4, K1)

20. (a) Write an essay on the purification of fermented products by using liquid - liquid chromatography.
(CO5, K5)

Or

- (b) Explain the purification of fermented products by centrifugation methods.
(CO5, K5)
-

R2329

Sub. Code

536NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Chemistry

NME: BASICS IN ENVIRONMENTAL SCIENCE

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the questions by choosing the correct option.

1. Which of the following is the main reason for producing the atmospheric greenhouse effect? (CO1,K2)
 - (a) Absorption and re-emission of ultraviolet radiations by the atmosphere
 - (b) Absorption and re-emission of infrared radiations by the atmosphere
 - (c) Absorption and re-emission of visible light by the atmosphere
 - (d) None of the above

2. The main contributors of acid rain are (CO1,K1)
 - (a) sulphur oxides and carbon oxides
 - (b) nitrogen oxides and sulphur oxides
 - (c) carbon dioxide and carbon monoxide
 - (d) None of the above

3. Which of the following is called the secondary air pollutant? (CO2,K2)
- (a) PANs
 - (b) Ozone
 - (c) Carbon monoxide
 - (d) Nitrogen Dioxide
4. Which is the best way to control noise pollution among the four fundamental ways? (CO3,K1)
- (a) Reduce noise at the source
 - (b) Block the path of noise
 - (c) Increase the path length
 - (d) Protect the recipient
5. Which of the following are the primary causes of water pollution? (CO3,K2)
- (a) Plants
 - (b) Animals
 - (c) Human activities
 - (d) None of these
6. What are the health effects of excess fluoride in drinking water? (CO3,K1)
- (a) Fluorosis
 - (b) Toothaches
 - (c) Lung disease
 - (d) Intestinal infection

7. Which of the following options is not included in the sustainable development parameters? (CO4,K1)
- (a) Gender inequality and diversity
 - (b) Intergenerational and intragenerational equity
 - (c) Growing annually
 - (d) None of the above
8. Which of the following is not a principle of Green Chemistry? (CO4,K2)
- (a) Green solvents and auxiliaries
 - (b) Use of renewable feedstock
 - (c) Hazardous chemical synthesis
 - (d) Design for energy efficiency
9. The reactions which are caused by heat and in absence of light is called _____. (CO5,K2)
- (a) Photochemical reactions
 - (b) Dark reactions
 - (c) Reversible reaction
 - (d) Reversible photochemical reaction
10. An enzyme that joins the ends of two strands of nucleic acid is: (CO5,K1)
- (a) Polymerase
 - (b) ligase
 - (c) synthetase
 - (d) Helicase

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Explain the impacts of acid rain. (CO1,K3)

Or

- (b) What is meant by ecology—Explain it? (CO1,K3)

12. (a) Give a detail account on the pollution and effects.
(CO2,K4)

Or

- (b) Discuss briefly about the radioactive pollution.
(CO2,K3)

13. (a) Explain the types of water pollution. (CO3,K4)

Or

- (b) Discuss about the Advanced treatment methods for water pollution. (CO3,K3)

14. (a) What are the 12 principles of Green Chemistry—discuss it. (CO4,K3)

Or

- (b) Write a short note on sustainable development. (CO4,K4)

15. (a) Explain the green resources of Essential oils. (CO5,K3)

Or

- (b) Discuss about the photochemical degradation. (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain in detail about green-house effect. (CO1, K4)

Or

- (b) Discuss clearly about photochemical smog and ozone-hole. (CO1, K4)

17. (a) Write notes on (CO2, K4)

- (i) Land pollution
(ii) Pesticide Pollution.

Or

- (b) What are the contaminants in industrial effluents of tannery-Explain it. (CO2, K4)

18. (a) Discuss in detail about the biological or secondary treatment methods. (CO3, K4)

Or

- (b) Explain - Pre-treatment methods. (CO3, K5)

19. (a) Give an account on types, guidelines and safety methods for Industrial hazards. (CO4, K5)

Or

- (b) Write notes on corrosives and flammables chemicals. (CO5, K6)

20. (a) Explain the technical methods for biochemical removal of phosphorous.

Or

- (b) Discuss about the Green resources for drug development. (CO5,K5)
-

R2330

Sub. Code

540NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Energy Science

**NME : RENEWABLE ENERGY AND
ENERGY STORAGE SYSTEMS**

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions
by choosing the correct option.

1. Which country is the largest producer of solar energy?
(CO1, K1)
(a) India (b) Germany
(c) China (d) USA
2. What is India's target for renewable energy capacity by 2030?
(CO1, K2)
(a) 100 GW (b) 250 GW
(c) 500 GW (d) 750 GW
3. What type of energy storage involves storing energy in chemical bonds?
(CO2, K2)
(a) Thermal energy storage
(b) Chemical energy storage
(c) Mechanical energy storage
(d) Electrochemical energy storage

4. Which of the following is an example of thermal energy storage? (CO2, K2)
- (a) Lithium-ion batteries
 - (b) Molten salt
 - (c) Pumped hydro
 - (d) Hydrogen fuel cells
5. Which of the following is a common type of battery? (CO3, K1)
- (a) Supercapacitor
 - (b) Lithium-ion
 - (c) Fuel cell
 - (d) Photovoltaic cell
6. What is the primary energy storage component of a supercapacitor? (CO3, K2)
- (a) Electrolyte
 - (b) Dielectric
 - (c) Electrode
 - (d) Membrane
7. What is a typical application of solid oxide fuel cells? (CO4, K2)
- (a) Portable electronics
 - (b) Backup power for buildings
 - (c) Automotive power
 - (d) Large-scale stationary power generation

8. Which of the following is a primary application of photovoltaics? (CO4, K2)
- (a) Water desalination
 - (b) Electricity generation for homes
 - (c) Carbon capture
 - (d) Waste heat recovery
9. Which of the following is a common combination in hybrid energy systems? (CO5, K1)
- (a) Solar and wind
 - (b) Biomass and coal
 - (c) Geothermal and nuclear
 - (d) Hydro and fossil fuels
10. What role do batteries play in hybrid energy systems? (CO5, K2)
- (a) Energy generation
 - (b) Energy storage
 - (c) Energy transmission
 - (d) Energy conversion

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Explain how do renewable energy sources contribute to reducing greenhouse gas emissions. (CO1, K4)

Or

- (b) Classify the applications of biomass energy, and simplify them. (CO1, K4)

12. (a) Compare the chemical energy and Thermal energy.
(CO2, K2)

Or

- (b) Explain the main advantages of using chemical energy storage over mechanical storage. (CO2, K2)

13. (a) Classify a supercapacitor and its applications.
(CO3, K4)

Or

- (b) Express the demerits of lithium-ion batteries.
(CO3, K4)

14. (a) Examine the basic principle of Photovoltaics cells.
(CO4, K4)

Or

- (b) Elaborate the reversible fuel cells and its advantages.
(CO4, K4)

15. (a) What is the potential of hybrid energy systems in supporting electric vehicle (EV) charging infrastructure.
(CO5, K2)

Or

- (b) Summaries a hybrid fuel cell and battery system.
(CO5, K2)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Generate the main types of renewable energy and categories their potential Applications z. (CO1, K4)

Or

- (b) Explain the achievements of India in expanding its renewable energy capacity. (CO1, K4)

17. (a) Given an elaborate account on types of thermal energy. (CO2, K2)

Or

- (b) Summarize the merits and demerits of energy storage mechanical energy and chemical energy. (CO2, K2)

18. (a) Summarize the principle and application of Lithium-ion batteries. (CO3, K2)

Or

- (b) Explain in detail about Electrochemical cells. (CO3, K2)

19. (a) Classification of Photovoltaics and its fabrication methods. (CO4, K4)

Or

- (b) Estimate account on reversible fuel cells. (CO4, K4)

20. (a) Simplify the key operational steps involved in setting up and running a small-scale hybrid energy system. (CO5, K2)

Or

- (b) Explain the role of hybrid fuel cell and hybrid battery systems. (CO5, K2)
-

R2331

Sub. Code

541NM2

M.C.A. DEGREE EXAMINATION, NOVEMBER – 2024

Computer Application

NME : OFFICE AUTOMATION

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. To create a new folder, you can right-click in a folder and select _____. (CO1, K1)
(a) Paste (b) Delete
(c) New → Folder (d) Rename
2. In Windows, the _____ tool is used for basic calculations. (CO1, K2)
(a) WordPad (b) Notepad
(c) Calculator (d) Paint
3. The topmost section of the Word window, containing tabs like File, Home, and Insert, is called the _____. (CO2, K2)
(a) Ribbon (b) Status Bar
(c) Taskbar (d) Toolbar
4. To apply bold formatting to selected text, you can press _____ on the keyboard. (CO2, K1)
(a) Ctrl + I (b) Ctrl + B
(c) Ctrl + U (d) Ctrl + P

5. To select multiple cells using the mouse, click and hold the _____ button while dragging. (CO3, K1)
- (a) Right (b) Left
- (c) Middle (d) Scroll
6. To enter a formula in Excel, start by typing the _____ sign. (CO3, K2)
- (a) \$ (b) #
- (c) @ (d) =
7. To save changes made to a presentation, click on the _____ option from the File menu. (CO4, K2)
- (a) Save (b) Open
- (c) New (d) Print
8. To format the text on a slide, such as changing the font or alignment, use the _____ menu. (CO4, K1)
- (a) Insert (b) View
- (c) Format (d) Slide Show
9. MS Access is a _____ management system used to create and manage databases. (CO5, K2)
- (a) Document (b) Spreadsheet
- (c) Database (d) Presentation
10. _____ view in MS Access allows you to define fields, data types, and field properties while creating a table. (CO5, K1)
- (a) Datasheet (b) Design
- (c) Form (d) Layout

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Discuss the features of windows. (CO1, K2)

Or

- (b) Compare WordPad and Notepad. (CO1, K2)

12. (a) Write a note on Thesaurus. (CO2, K2)

Or

- (b) Describe the steps to insert a Page number in MS Word. (CO2, K4)

13. (a) How to create charts in Spreadsheet? Explain. (CO3, K2)

Or

- (b) Write the procedure to format and navigate data in MS-Excel. (CO3, K3)

14. (a) How will you add Audio for each slide? (CO4, K3)

Or

- (b) What are the two ways to start a slideshow? Explain. (CO4, K1)

15. (a) How to create Table using Design View? Explain. (CO5, K3)

Or

- (b) Write the procedure to create Database. (CO5, K6)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Illustrate the structure of windows in detail with neat sketch. (CO1, K2)

Or

- (b) How to manage Files and Folders in MS Windows? Explain in detail. (CO1, K1)

17. (a) Explain the working procedure of Mail Merge in detail. (CO2, K3)

Or

- (b) Discuss in detail about how to work with Tables in MS Word. (CO2, K4)

18. (a) Write a detailed note on printing the Worksheet with various options. (CO3, K2)

Or

- (b) Discuss in detail about cell formatting in worksheets. (CO3, K3)

19. (a) How will you create Animation with custom effects for Slideshow in MS Powerpoint? (CO4, K6)

Or

- (b) Discuss the various view of Presentation in detail. (CO4, K2)

20. (a) How to design database using Queries in MS-Access? (CO5, K4)

Or

- (b) Write the steps to design the MS-Access reports in detail. (CO5, K6)

R2332

Sub. Code

542NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Materials Science

NME: NANOMATERIALS BIOSENSOR

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions
by choosing the correct options.

1. In a biosensor, the recognition element is responsible for:
(CO1, K1)
 - (a) Signal transduction
 - (b) Detecting the target molecule
 - (c) Amplifying the output signal
 - (d) Providing a constant reference signal
2. What is the role of a transducer in a biosensor? (CO1, K2)
 - (a) It captures the target molecule
 - (b) It stabilizes the sensor surface
 - (c) It amplifies the chemical signal
 - (d) It converts the biological response into a measurable signal

3. In green synthesis, what property of nanoparticles is often controlled by varying the type of biological material (bacteria, fungi, or plant extract) used? (CO2, K6)
- (a) Size, shape, and stability
 - (b) Only color
 - (c) Magnetic properties
 - (d) Chemical composition
4. In the context of green synthesis, which of the following plays a major role in reducing metal ions to nanoparticles when using fungi? (CO2, K3)
- (a) Fungal cell walls
 - (b) Enzymes and metabolites produced by the fungi
 - (c) Fungal DNA
 - (d) Fungal spore count
5. Which of the following biorecognition elements is most suitable for detecting glucose in a biosensor? (CO3, K4)
- (a) DNA aptamer
 - (b) Antibody
 - (c) Glucose oxidase enzyme
 - (d) Phospholipid
6. What is the primary advantage of using aptamers over antibodies in a biosensor for analyte detection? (CO3, K5)
- (a) Lower sensitivity
 - (b) Higher production cost
 - (c) Less selectivity
 - (d) Greater thermal stability and reusability

7. In optical biosensors, which technique is often used to detect binding events between the analyte and the biorecognition element? (CO4, K5)
- (a) Cyclic voltammetry
 - (b) Surface plasmon resonance (SPR)
 - (c) Potentiometry
 - (d) Calorimetry
8. Which of the following is a common type of electrochemical biosensor? (CO4, K1)
- (a) Amperometric sensor
 - (b) Calorimetric sensor
 - (c) Surface plasmon resonance (SPR) sensor
 - (d) Optical sensor
9. Which of the following materials 'is often used in nanosensors for detecting contaminants in food?(CO5, K5)
- (a) Zinc oxide nanoparticles
 - (b) Silver nanoparticles
 - (c) Titanium dioxide
 - (d) Graphene-based materials
10. In precision farming, nanosensors are primarily used for: (CO5, K2)
- (a) Measuring crop growth rates
 - (b) Analyzing soil health and nutrient levels
 - (c) Tracking the weather forecast
 - (d) Increasing crop size

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Explain the sensitivity and selectivity of biosensors.
(CO1, K2)

Or

- (b) Write a detailed note on components of biosensors.
(CO1, K1)

12. (a) Explain the role of plant extracts in the green synthesis of metal nanoparticles. What are the advantages of using plant-based synthesis compared to chemical synthesis? (CO2, K3)

Or

- (b) Evaluate the potential applications of silver nanoparticles in the field of medicine and explain about their effectiveness as antimicrobial agents? (CO2, K6)

13. (a) Elaborate the significance of enzymes as bio-recognizing elements in nanosensors. (CO3, K4)

Or

- (b) Differentiate between covalent and non-covalent immobilization methods with their advantages and disadvantages. (CO3, K5)

14. (a) Write a note about conductometric biosensors and explain the principle behind their operation. (CO4, K5)

Or

- (b) Explain the concepts of fluorescence and phosphorescence. (CO4, K1)

15. (a) Discuss the role and advantages of natural biopolymers in the development of food packaging. (CO5, K2)

Or

- (b) Explain the concept of a smart delivery system in agriculture. (CO5, K5)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain any three different types of Nano biosensors with suitable diagrams. (CO1, K1)

Or

- (b) Write a detailed note on different nanoparticles used for the biosensing Applications (CO1, K2)

17. (a) Describe in details about the what are the factors affecting biosynthesis of nanoparticles. (CO2, K3)

Or

- (b) Elucidate the mechanism behind the phytosynthesis of Metal nanoparticles with suitable diagrams. (CO2, K6)

18. (a) What is transducers and give an elaborate about the different types of transducers used for biosensing. (CO3, K4)

Or

- (b) Describe about the immobilization process and what are the methods of immobilization of bacteria in biosensing system? (CO3, K6)

19. (a) Write a detailed note about the three generations of amperometric biosensors with suitable example.
(CO4, K1)

Or

- (b) Give an elaborate details about the Nanomaterial's in fluorescence based biosensors. (CO4, K5)
20. (a) What is biopolymer and write a detailed notes about the classification of biopolymer based on the monomers used and the structure of the biopolymer
(CO5, K1)

Or

- (b) Describe about the any four different types of Nano fertilizer and primary methods of Nano fertilizer application. (CO5, K5)
-

R2333

Sub. Code

546NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Information Technology

NME – INTERNET AND WEB DESIGN

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. _____ is the common name for collection of more than 100 protocols used to connect computers and networks. (CO1, K2)
(a) Remote Access (b) Wi-Fi / Bluetooth
(c) TCP/IP (d) WWW
2. SMTP stands for _____. (CO1, K1)
(a) Simple Mail Transfer Protocol
(b) Simple Message Transfer Program
(c) Simple Mode Texting Program
(d) Simple Memory Transfer Protocol
3. Which program is used by web clients to view the web pages? (CO2, K4)
(a) Web browser (b) Protocol
(c) Web server (d) Search Engine

4. In order to upload a HTML file to a web server, you use _____.
(CO2, K2)
- (a) HTTP (b) SMTP
(c) TCP (d) FTP
5. A webpage displays a picture. What tag was used to display that picture?
(CO3, K4)
- (a) Picture (b) Image
(c) img (d) src.
6. In HTML, tags that include both on and off tag are called
(CO3, K2)
- (a) comment tag (b) document tag
(c) container tag (d) none of the above
7. CSS coded in the body of the webpage as an attribute of an html tag
(CO4, K4)
- (a) Internal (b) Style
(c) External (d) Inline
8. Which of the following tag is used to embed css in html page?
(CO4, K2)
- (a) <css> (b) <!DOCTYPE html>
(c) <script> (d) <style>
9. Is ASP.NET web form is part of ASP.NET core? (CO5, K4)
- (a) Yes (b) No
10. The rename and refactor features in Dreamweaver Make it possible JavaScript codes
(CO5, K2)
- (a) Rename (b) Refactor
(c) Both (a) and (b) (d) None of the above

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Describe about File Transfer protocol. (CO1, K3)

Or

- (b) Write note on Domain Name Service. (CO1, K3)

12. (a) Explain about basic web design principles.(CO2, K5)

Or

- (b) Discuss about creating user profiles and website prototypes. (CO2, K5)

13. (a) Elucidate about basic structure of HTML documents. (CO3, K1)

Or

- (b) Illustrate about three types of list can be created in HTML. (CO3, K1)

14. (a) Write note on creation of style sheets. (CO4, K1)

Or

- (b) Explain about page layout and site design. (CO4, K1)

15. (a) Explain how to create tables for web pages. (CO5, K4)

Or

- (b) Discuss about Microsoft front page. (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Elucidate about developing internet applications. (CO1, K5)

Or

- (b) Enumerate about Hazards on the internet. (CO1, K5)

17. (a) Illustrate about different website structures and web design approaches. (CO2, K3)

Or

- (b) Discuss about web development models. (CO2, K3)

18. (a) Write a Python program to add elements to the Tuple and delete elements from a Tuple. (CO5, K5)

Or

- (b) Describe about images and multimedia. (CO5, K5)

19. (a) Enumerate about features of CSS styling. (CO4, K4)

Or

- (b) Discuss about creating page layout and site designs. (CO4, K4)

20. (a) Illustrate about creating web site structure. (CO4, K4)

Or

- (b) Describe about publishing web sites. (CO4, K4)

R2334

Sub. Code

547NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Fisheries Science

NME : ORNAMENTAL AQUACULTURE

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions
by choosing the correct answers.

1. The feeding habit of goldfish is _____. (CO1, K2)
(a) Omnivore (b) Herbivore
(c) Carnivore (d) None of the above
2. Aquarium water should be aerated during (CO1, K1)
(a) Night (b) Evening
(c) Early morning (d) Noon
3. In intensive aquaculture, the design of tank should be (CO2, K3)
(a) Square (b) Circular
(c) Cylindrical (d) Rectangular
4. Which state in India has highest ornamental fish production? (CO2, K5)
(a) Tamil Nadu (b) Kerala
(c) Odissa (d) West Bengal

5. Which of these plants may not be suitable for cultivation through aquaponics? (CO3, K4)
- (a) Carrot (b) Tomatoes
(c) Cucumber (d) Strawberries
6. _____ can be used to reduce seepage losses from ponds. (CO3, K4)
- (a) Hypochlorite (b) Carbamide
(c) Bentonite (d) Zeolite
7. Paddle wheel aerator is an example of _____ types of aerator. (CO4, K1)
- (a) Turbine (b) Gravity
(c) Diffuser (d) Surface
8. Where would you normally go diving to see a clownfish? (CO4, K3)
- (a) Rivers and Estuaries
(b) Corals
(c) Open Ocean
(d) Mangroves
9. Which of the following is live animal foods. (CO5, K5)
- (a) Brine shrimp (b) Copepods
(c) Tubifex worms (d) All of the above
10. MPEDA headquarter is located at _____. (CO5, K2)
- (a) Mumbai (b) Delhi
(c) Chennai (d) Kochi

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Write a short note on aquarium accessories.
(CO1, K2)

Or

- (b) Explain about the exotic ornamental fishes.
(CO1, K3)

12. (a) What are the types of aquaponics systems?
(CO2, K2)

Or

- (b) How do you design the aquarium for various ornamental fishes?
(CO2, K3)

13. (a) How do you maintain the water quality parameters in ornamental fish farm?
(CO3, K4)

Or

- (b) What are the different types of marine ornamental fishes?
(CO3, K2)

14. (a) Describe health management practices in live feed production.
(CO4, K3)

Or

- (b) What is the role of live feeds in ornamental fish trade?
(CO4, K1)

15. (a) Explain the present status of international ornamental fish trade.
(CO5, K2)

Or

- (b) Write a brief account on government subsidies in ornamental fish trade.
(CO5, K6)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Write an essay on the history and status of ornamental fish culture. (CO1, K2)

Or

- (b) Explain the types and design of marine aquarium. (CO1, K1)

17. (a) Describe the types, present status, and importance of aquaponics. (CO2, K4)

Or

- (b) How do you culture the plant and animal species using aquaponics? (CO2, K3)

18. (a) Write about the equipment and accessories required for ornamental fish hatchery. (CO3, K3)

Or

- (b) Explain about the ornamental fish farm management practices. (CO3, K5)

19. (a) Write an essay on marine aquarium fish trading in India. (CO4, K3)

Or

- (b) Give detailed account on different media used for live feed production. (CO4, K2)

20. (a) Describe the role of live feeds in ornamental fish hatcheries. (CO5, K5)

Or

- (b) Discuss in detail – High value marine ornamental fishes (CO5, K4)

R2335

Sub. Code

548NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Integrated Marine Biology

NME : AQUARIUM KEEPING

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. Which one of the following nitrogen wastes is the most harmful? (CO1, K1)
 - (a) Nitrate
 - (b) Ammonia
 - (c) Nitrite
 - (d) All of the above

2. Feeding habits of goldfish is (CO1, K2)
 - (a) Herbivore
 - (b) Carnivore
 - (c) Omnivore
 - (d) None of the above

3. Aquarium water should be aerated during (CO2, K2)
- (a) Night
 - (b) Evening
 - (c) Early morning
 - (d) Noon
4. ————— being first among ornamental fish producing country. (CO2, K4)
- (a) Japan (b) Malaysia
 - (c) Singapore (d) China
5. Which state in India has highest ornamental fish production? (CO3, K4)
- (a) Tamil Nadu
 - (b) Kerala
 - (c) Maharashtra
 - (d) West Bengal
6. Which one of the following criteria used for selection of ornamental fish? (CO3, K2)
- (a) Able to live in confined conditions
 - (b) Should be disease resistance
 - (c) Able of feed natural feed and artificial diets
 - (d) All of the above

7. Identify the following one which is used as fish anesthetics (CO4, K2)
- (a) Tri-sodium citrate
 - (b) Benzocaine
 - (c) Tricaine
 - (d) All of the above
8. Which one of the following is the bacterial disease in ornamental fish? (CO4, K2)
- (a) Fin and Tail Rot disease
 - (b) Gas bubble disease
 - (c) Argulosis
 - (d) All of the above
9. Identify the following marine ornamental fish (CO5, K4)
- (a) Goldfish (*Carassius auratus*)
 - (b) Angel fish (*Pterophillumscalare*)
 - (c) Anemone fish (*Amphiprion* sp.)
 - (d) All of the above
10. The main features of the live feeds are ——— (CO5, K3)
- (a) It refers to living organisms
 - (b) It is easily digestible natural food
 - (c) It will not pollute the tank and provide brilliant colouration
 - (d) All of the above

Part B

(5 × 5 = 25)

Answer **all** the questions in not more than 500 words each.

11. (a) Write about the importance of aquarium.
(CO1, K2)

Or

- (b) Give account on status of ornamental fish trade.
(CO1, K1)

12. (a) Explain about filters and medias used in aquariums.
(CO2, K3)

Or

- (b) How do you set up a freshwater aquarium in your home?
(CO2, K3)

13. (a) Explain about the importance of live feed in aquarium.
(CO3, K2)

Or

- (b) Outline about the management of aquarium.
(CO3, K4)

14. (a) Outline the disease treatment methods in aquarium.
(CO4, K2)

Or

- (b) Illustrate the fungal diseases in aquarium fishes.
(CO4, K2)

15. (a) Summaries the design and construction of ornamental fish farm.
(CO5, K1)

Or

- (b) Describe about the breeding of ornamental fishes.
(CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions in not more than 1000 words each.

16. (a) Write a detailed account on ornamental fish trade.
(CO1, K2)

Or

- (b) Describe about ornamental aquatic plants with suitable examples. (CO1, K1)
17. (a) Discuss different types of equipment used in aquarium. (CO2, K6)

Or

- (b) How do you design the marine aquarium? Explain with neat illustration. (CO2, K3)
18. (a) Write an account on care and maintenance of aquarium. (CO3, K2)

Or

- (b) Discuss in detail - Criteria for selection of ornamental fishes. (CO3, K3)
19. (a) Write an essay on diseases of ornamental aquarium fishes. (CO4, K2)

Or

- (b) Give detailed account of disease control measures in aquariums. (CO4, K2)

20. (a) Outline the ornamental fish brood stock management measures. (CO5, K1)

Or

- (b) Summaries about the packing and transport of aquarium fishes. (CO5, K4)
-

R2336

Sub. Code

549NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

Public Administration

**NME : INDIAN PUBLIC ADMINISTRATION FOR CIVIL
SERVICES**

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the
correct option.

1. Which part of the Indian constitution provides for citizenship? (CO1, K2)
(a) Part I (b) Part II
(c) Part III (d) Part IV
2. Which emergency provision is not mentioned in the Indian Constitution? (CO1, K2)
(a) National emergency
(b) Financial emergency
(c) Constitutional emergency
(d) Disaster emergency
3. _____ is the first citizen of India. (CO2, K3)
(a) Prime Minister (b) President
(c) Governor (d) None of the above

4. _____ is the supreme judicial authority of India.
(CO2, K3)
- (a) Supreme Court
 - (b) High Court
 - (c) District Court
 - (d) None of the above
5. Who is the head of the districts? (CO3, K5)
- (a) District collector
 - (b) District revenue officer
 - (c) Block development officer
 - (d) None of the above
6. _____ states that state governments must ensure that they follow the laws passed by parliament. (CO3, K5)
- (a) Article 254 (b) Article 255
 - (c) Article 256 (d) Article 257
7. Central vigilance commission was created in the year _____.
(CO4, K6)
- (a) 1964 (b) 1974
 - (c) 1984 (d) 1994
8. _____ was enacted under the Legal Services Authorities Act 1987. (CO4, K6)
- (a) Lok Adalat
 - (b) Lokpal
 - (c) State Human Rights Commission
 - (d) National Human Rights Commission
9. _____ is not a member country of SAARC.
(CO5, K4)
- (a) Pakistan (b) India
 - (c) SriLanka (d) Malaysia

10. India's peace keeping force was sent to (CO5, K4)
(a) China (b) Japan
(c) Italy (d) Sri Lanka

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Outline the fundamental duties of Indian Constitution. (CO1, K2)

Or

- (b) Summarize the provisions of directive principles of state policy. (CO1, K2)

12. (a) Identify the powers of parliament. (CO2, K3)

Or

- (b) Identify the powers of cabinet secretariat. (CO2, K3)

13. (a) Assess the role of collector in District Administration. (CO3, K5)

Or

- (b) Evaluate functions of high court. (CO3, K5)

14. (a) Estimate the functions of Lokayukta. (CO4, K6)

Or

- (b) Elaborate the features of Information Commission. (CO4, K6)

15. (a) Examine SAARC. (CO5, K4)

Or

- (b) Examine BRICS. (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain the salient features of Indian Constitution.
(CO1, K2)

Or

- (b) Summarize the emergency provisions in the Indian Constitution.
(CO1, K2)

17. (a) Identify the powers and functions of President.
(CO2, K3)

Or

- (b) Identify the powers and functions of Prime Minister.
(CO2, K3)

18. (a) Evaluate the functions of Secretariat. (CO3, K5)

Or

- (b) Assess the role of state Election Commission.
(CO3, K5)

19. (a) Elaborate the functions of Central Vigilance Commission.
(CO4, K6)

Or

- (b) Estimate the working of Public Grievance Redressal Mechanism at the centre.
(CO4, K6)

20. (a) Examine India's relations with Pakistan. (CO5, K4)

Or

- (b) Examine India's relations with Srilanka. (CO5, K4)

R2337

Sub. Code

551NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Computer Science

NME – WEB DESIGNING

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. Which tag tells the browser where the page starts and stops? (CO1, K2)
(a) <html> (b) <body>
(c) <head> (d) <title>
2. Which section is used for text and tags that are shown directly on your web page? (CO1, K1)
(a) Head (b) Meta tags
(c) Body (d) title
3. To create HTML page, you need (CO2, K4)
(a) Web browser (b) text editor
(c) Both (a) and (b) (d) None of the above
4. The <HR> tag is used for (CO2, K2)
(a) horizontal ruler (b) new line text
(c) new paragraph (d) vertical ruler

5. To start a list using circles, use (CO3, K4)
- (a) <ul “round”>
 - (b) <ul type = “circle”>
 - (c) <ul type=“round”>
 - (d) <ul =“round”>
6. Which tag can set the background color for your page? (CO3, K2)
- (a) <body> (b)
 - (c) <head> (d) <title>
7. What does DHTML Stand For? (CO4, K4)
- (a) Digital HTML (b) Data-Binding HTML
 - (c) Dynamic HTML (d) Document HTML
8. Which of the following has introduced text, list, box, margin, border, color, and background properties? (CO4, K2)
- (a) HTML (b) PHP
 - (c) CSS (d) Ajax
9. Which one of the following is a form element? (CO5, K4)
- (a) Text box (b) Radio button
 - (c) Submit button (d) All of these
10. Which of the following is the attribute that is used to add a name/value pair to a microdata item? (CO5, K2)
- (a) itemscope (b) itemref
 - (c) itemprop (d) itemid

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) List and explain any five HTML elements.
(CO1, K2)

Or

- (b) Discuss about the attributes of hyperlink tag in HTML.
(CO1, K2)
12. (a) Illustrate about ordered and unordered lists with suitable examples.
(CO2, K4)

Or

- (b) Illustrate how to embed images in websites.
(CO2, K4)
13. (a) Elucidate about frames in HTML.
(CO3, K1)

Or

- (b) Describe about colouring cell using HTML.
(CO3, K1)
14. (a) Explain about in line styles.
(CO4, K1)

Or

- (b) Discuss about the features of DHTML.
(CO4, K1)
15. (a) Describe about action attribute.
(CO5, K4)

Or

- (b) Explain about submit and reset buttons.
(CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Create a HTML document for a Collage home page displaying various courses offered. (CO1, K5)

Or

- (b) Explain about browsers and search engine. (CO1, K5)

17. (a) Describe the attributes of image tag and its uses. (CO2, K4)

Or

- (b) Discuss about Heading, aligning heading and printing. (CO2, K4)

18. (a) Write a HTML coding for creating table with various width and cells. (CO4, K5)

Or

- (b) Explain about nested lists. (CO4, K5)

19. (a) Enumerate about internal and external style sheets. (CO4, K4)

Or

- (b) What is style sheet? Explain the text properties in CSS with suitable example. (CO4, K4)

20. (a) Elucidate about check box and radio buttons. (CO5, K4)

Or

- (b) Explain about designing sample forms. (CO5, K4)

R2338

Sub. Code

558NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Nutrition and Dietetics

NME – FOOD PRESERVATION

(CBCS – 2023 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. A good method of food preservation is one that _____ (CO1, K1)
 - (a) Slow down the action of the agents of spoilage
 - (b) Prevents altogether the action of the agents of spoilage
 - (c) The food should not be damaged
 - (d) All of these
2. Which of the following food items can be used as natural food preservatives? (CO1, K2)
 - (a) Ginger, garlic, banana and tamarind
 - (b) Garlic, apple, salt and tamarind
 - (c) Garlic, lemon, sugar and vinegar
 - (d) Vinegar, ginger, apple and banana

3. Which one is not a perishable food items? (CO2, K2)
- (a) Nuts
 - (b) Avocadoes
 - (c) Yogurt
 - (d) Meat
4. pH is really a measure of the relative amount of free hydrogen and hydroxyl ions in the water. (CO2, K1)
- (a) Hydrogen
 - (b) Nitrogen
 - (c) Hydrogen and hydroxyl
 - (d) Hydroxyle and oxygen
5. Rancidity is the deterioration of_____ (CO3, K2)
- (a) Cereals and pulses
 - (b) Fruits and Vegetables
 - (c) Milk and Milk products
 - (d) Fats and oils
6. The process of sealing fruits and vegetables or any other foodstuffs airtight containers and sterilizing them by heat for long storage is known as _____. (CO3, K1)
- (a) Heating
 - (b) Drying
 - (c) Freezing
 - (d) Canning

7. In _____ method of drying includes heated air, direct contact of heated surface, application of energy from a radiating microwave or dielectric source. (CO4, K1)
- (a) Natural
 - (b) Mechanical
 - (c) Natural and mechanical
 - (d) None of these
8. Which type of pickle is produced using a more concentrated brine (up to 16% salt) and is preserved by the salt and not by fermentation? (CO4, K1)
- (a) Fermented pickle
 - (b) Sweet pickle
 - (c) Salt stock pickle
 - (d) Salted vegetables
9. The quantity of radiation energy absorbed by the food is called _____. (CO5, K1)
- (a) Calories of radiation
 - (b) Grams of radiation
 - (c) Radiation amount
 - (d) Radiation dose
10. Food irradiation is the food preservation technique in which food is exposed to ionizing radiation beams _____. (CO5, K1)
- (a) Gamma rays
 - (b) Electron beams
 - (c) X-rays
 - (d) All of these

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Give a brief note on principles and methods of food preservation. (CO1, K3)

Or

- (b) Describe in detailed account on the regulation of food additives. (CO1, K3)
12. (a) Identify the shelf life of perishable and semi perishable foods. (CO2, K2)

Or

- (b) Discuss the microorganisms in the spoilage of meat and meat products. (CO2, K2)
13. (a) Give a brief note on food item changes occurring during freezing. (CO3, K2)

Or

- (b) Which heat preservation method is used for vegetables preservation? Brief it. (CO3, K2)
14. (a) Write a short note on mechanical drying. (CO4, K3)

Or

- (b) What are the factors affecting rate of drying? Brief it. (CO4, K3)
15. (a) Discuss about the units of radiation. (CO5, K4)

Or

- (b) Explain the Kinds of ionizing radiations used in food irradiation. (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Give an account on the methods of food preservation. (CO1, K3)

Or

- (b) Write a short note on the following international standards: FDA and HACCP. (CO1, K3)

17. (a) Describe the contamination and spoilage of microbes in cereals and cereal products and explain how to prevent it. (CO2, K2)

Or

- (b) Explain about the fish and other sea foods contamination, spoilage, preservation and control of microorganisms. (CO2, K2)

18. (a) Elucidate the principle of freezing and how to use slow freezing in the food preservation. (CO3, K4)

Or

- (b) Determine the different methods of high temperatures used in food preservation, with examples. (CO3, K4)

19. (a) Interpret the types of driers used in the food industry. (CO4, K5)

Or

- (b) Explain in detail about the preservation by high concentration of sugar. (CO4, K5)

20. (a) Summarize the mechanism of action, concept of cold sterilization. (CO5, K3)

Or

- (b) Explain the preparation steps for jam and jelly in the food industry. (CO5, K3)
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R2339

Sub. Code

622NM2

M.B.A. DEGREE EXAMINATION, NOVEMBER – 2024

Corporate Secretaryship

NME – BUSINESS ETHICS

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing the correct option.

1. An organization's obligation to protect to protect and improve society's welfare as well as its own interests is referred as (CO1, K1)
 - (a) Organizational social responsibility
 - (b) Organizational social responsiveness
 - (c) Corporate obligation
 - (d) Business ethics
2. The nature of business ethics does not include (CO1, K1)
 - (a) Focus on human values
 - (b) Social work
 - (c) Branch of philosophy
 - (d) Applies moral principles
3. Deontological Theory of ethics is not concerned with (CO2, K1)
 - (a) Duty ethics (b) Obligation ethics
 - (c) Rule based ethics (d) Classical ethics

4. Virtue ethics is acquired by (CO2, K1)
- (a) Instinct and action
 - (b) Instruction and memory
 - (c) Thought and reflection
 - (d) Practice and habit
5. The key component of the Due Care Theory is (CO3, K1)
- (a) Ensuring product affordability
 - (b) Minimizing environmental impact
 - (c) Protecting consumers from harm
 - (d) Increasing market share
6. Which of the following is primarily concerned with the dimensions of pollution and resource depletion? (CO3, K1)
- (a) Due Care Theory
 - (b) Ethical Decision Making
 - (c) External Context Ecology
 - (d) Virtue Ethics
7. The critical issue addressed under job discrimination in business ethics is (CO4, K1)
- (a) Promoting global trade
 - (b) Ensuring fair treatment of employees
 - (c) Increasing employee productivity
 - (d) Simplifying organizational hierarchy
8. The internal context concerning the employees does not focus on (CO4, K1)
- (a) Job Discrimination
 - (b) Employee Rights
 - (c) Consumer Protection
 - (d) Ethical Audit

9. The Key topic related to ethical perception in international business is (CO5, K1)
 - (a) Job Discrimination
 - (b) Economic Issues
 - (c) Global Values
 - (d) Ideology Theory
10. The Subjective aspects of culture excludes (CO5, K1)
 - (a) Language (b) Values
 - (c) Belief (d) Attitude

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Explain the nature of business ethics. (CO1, K2)
 Or
 (b) Interpret the benefits of business ethics. (CO1, K2)
12. (a) Explain the concept of virtue ethics. (CO2, K4)
 Or
 (b) Write a note on Justice and Fairness in business organization. (CO2, K4)
13. (a) State the initiatives taken by the business organization for environmental protection. (CO3, K4)
 Or
 (b) Enumerate the ethical issues in advertising. (CO3, K4)
14. (a) Determine the ethical obligations of an employee to the organization. (CO4, K2)
 Or
 (b) Write short notes on importance of ethical audit. (CO4, K2)
15. (a) Describe the significance of business ethics in global economy. (CO5, K5)
 Or
 (b) Interpret the cross-cultural ethical challenges in international business. (CO5, K5)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Narrate the common ethical issues in business.
(CO1, K2)

Or

- (b) Report the framework of ethical decision making.
(CO1, K2)

17. (a) Interpret the Theory of Deontology with suitable example.
(CO2, K4)

Or

- (b) Describe the Role of Corporate culture and leadership in business success.
(CO2, K4)

18. (a) Define Consumer privacy and state the significance of consumer privacy.
(CO3, K4)

Or

- (b) Illustrate and explain the Due Care theory.
(CO3, K4)

19. (a) Report the employee's job discrimination in terms of utility, rights and justice.
(CO4, K2)

Or

- (b) Elucidate the duties to be fulfilled by the organization to its employees.
(CO4, K2)

20. (a) Elaborate the principles relating to ethical decision making in international business.
(CO5, K5)

Or

- (b) Discuss the strategies to overcome cross-religion and cross racial issues in international business.
(CO5, K5)

R2340

Sub. Code

632NM2

M.B.A. DEGREE EXAMINATION, NOVEMBER – 2024

Banking and Insurance

NME: BASICS OF INVESTMENT

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following questions by choosing
the correct option.

1. Investment made in real estate is (CO1,K2)
 - (a) Real investment
 - (b) Financial investment
 - (c) Non financial investment
 - (d) Intangible investment
2. Which of the following is a contingent investment? (CO1,K2)
 - (a) Recurring deposit
 - (b) Bonds
 - (c) Equity shares
 - (d) Life insurance policy
3. What is a bull market? (CO2,K4)
 - (a) A market with rising prices
 - (b) A market with falling prices
 - (c) A market with stable prices
 - (d) A market with high volatility

4. Which of the following is the index of BSE? (CO2,K4)
- (a) Nifty (b) Sensex
(c) BSE 100 (d) BSE 200
5. What is the primary function of a trading platform? (CO3,K4)
- (a) To provide market data
(b) To enable trading
(c) To offer research tools
(d) To provide customer support
6. What is the purpose of a stop-loss order? (CO3,K4)
- (a) To maximize profits
(b) To lock in profits
(c) To minimize losses
(d) To increase risk
7. What is the risk level associated with ELSS investment? (CO4,K2)
- (a) Low risk (b) Medium risk
(c) High risk (d) Very high risk
8. What is the benefit of investing in an index fund? (CO4,K2)
- (a) Potential for high returns
(b) Professional management
(c) Low fees and expenses
(d) All of the above
9. How does insurance premium coverage help in financial planning? (CO5,K5)
- (a) By providing investment opportunities
(b) By providing tax benefits
(c) By providing risk management
(d) By providing retirement planning

10. What is an insurance claim? (CO5,K5)
- (a) A request to cancel a policy
 - (b) A request to change a policy
 - (c) A request to invest in a policy
 - (d) A request to pay for a loss.

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Outline the significance of investment. (CO1,K2)

Or

- (b) Compare the shares with bonds. (CO1,K2)

12. (a) Examine the salient features of NSE. (CO2,K4)

Or

- (b) How does a company determines its public offer price while making IPO? (CO2,K4)

13. (a) How do trading platforms ensure security and reliability? (CO3,K4)

Or

- (b) What do you mean by net position? (CO3,K4)

14. (a) List out the benefits of investing through SIP. (CO4,K2)

Or

- (b) Outline the characteristics of sector funds. (CO4,K2)

15. (a) Assess the need for insurance. (CO5,K5)

Or

- (b) How to buy an insurance policy. (CO5,K5)

Part C

(5 × 8 = 40)

Answer **all** questions, not more than 1000 words each.

16. (a) Classify the various types of Investment. (CO1,K2)

Or

- (b) What is Bit coin? Is it bit coin a good investment?
(CO1,K2)

17. (a) Explain the various terms in stock exchanges.
(CO2,K4)

Or

- (b) How do the mid cap stocks compare to large cap stocks in terms of risk and return? (CO2,K4)

18. (a) Distinguish between web based desktop and mobile trading terminus. (CO3,K4)

Or

- (b) Explain the features of online trading. (CO3,K4)

19. (a) How does STP work, and what are its benefits?
(CO4,K2)

Or

- (b) Explain the procedure to invest in mutual funds.
(CO4,K2)

20. (a) Describe the various types of insurance. (CO5,K5)

Or

- (b) Explain the process of insurance claims. (CO5,K5)

R2341

Sub. Code

641NM2

**M.B.A. (General) DEGREE EXAMINATION,
NOVEMBER – 2024**

Management

NME — MANAGEMENT OF SMALL BUSINESS

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing
the correct option.

1. Khadi and village industries are identified as (CO1, K1)
 - (a) Large-scale industries
 - (b) Traditional small-scale industries
 - (c) Modern small-scale industry
 - (d) Medium-scale industry
2. The small-scale industry can enjoy the status of _____ if it supplies not less than 50% of its production to another industry, referred to as the parent unit. (CO1, K1)
 - (a) Village industries
 - (b) Micro Business industry
 - (c) Export-oriented unit
 - (d) Ancillary small industry

3. Expand SIDBI (CO2, K1)
- (a) Society Industrial Development Bank of India
 - (b) Small Industries Development Bank of India
 - (c) Super Industrial Development Bank of India
 - (d) Small Indian Development Bank of India
4. Expand DIC (CO2, K1)
- (a) Directorate of Industry corporation
 - (b) Directorate of Indian Corporation
 - (c) District Industries Centers
 - (d) None of the above
5. _____ is the response of a person or an organization to solving an identified problem or to meeting perceived needs. (CO3, K2)
- (a) Business Plan (b) Business Idea
 - (c) Feasibility study (d) None of these
6. Small scale industries owned and managed by women entrepreneurs have a share capital of no Small-Scale less than _____. (CO3, K2)
- (a) 25 percent (b) 50 percent
 - (c) 51 percent (d) 20 percent
7. Why the majority of women are unaware of technological developments? (CO4, K1)
- (a) Low-risk bearing ability
 - (b) Low mobility
 - (c) Lack of education
 - (d) Low need for achievement

8. Which of the following is a remedy to solve the problems of women entrepreneurs? (CO4, K1)
- (a) Social attitude (B) Finance cells
(c) Stiff Competition (d) Supervision
9. Which one of the following strategy is followed by an entrepreneur in the starting phase of their business? (CO5, K2)
- (a) Expansion strategy
(b) Stability strategy
(c) Intensive expansion strategy
(d) Market development strategy
10. What is the term for conflicts that arise within a family business due to differences in goals, values, or expectations? (CO5, K2)
- (a) Succession planning
(b) Organizational culture
(c) Family feuds
(d) Family business dynamics

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Mention the scope of Small-Scale Enterprises. (CO 1, K3)

Or

- (b) Present the difference between Small-Scale Enterprises and Large-scale industries. (CO 1, K3)

12. (a) Briefly explain the various functions of DIC.
(CO2, K4)

Or

- (b) Explain the operating mechanism and contribution of development agencies for Small-Scale Enterprises' growth.
(CO2, K4)
13. (a) Outline the importance of market assessment for Small-Scale Enterprises.
(CO3, K2)

Or

- (b) Summarize the benefits of various forms of ownership structure of Small-Scale Enterprises.
(CO3, K2)
14. (a) Outline the salient features of the "Small Business Promotion programme".
(CO4, K4)

Or

- (b) Briefly explain the operation management issues faced by Small-Scale Enterprises.
(CO4, K4)
15. (a) Write a note on the advantages of performance assessment and control.
(CO5, K3)

Or

- (b) What are the components of growth strategies for Small-Scale businesses? Explain.
(CO5, K3)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Discuss the importance of Small-Scale Enterprises in the Indian Economy. (CO1, K4)

Or

- (b) Discuss the efforts taken by the government to develop Small-Scale Enterprises in India. (CO1, K4)

17. (a) Explain the various environmental factors that influence the development of Small-Scale Enterprises in India. (CO2, K5)

Or

- (b) Explain the role of funding agencies in the growth of Small-Scale Enterprises in India. (CO2, K5)

18. (a) Discuss the various methods of financing available to Small-Scale Enterprises. (CO3, K5)

Or

- (b) Enumerate the steps involved in effective business plan preparation. (CO3, K5)

19. (a) Demonstrate the financial issues faced by Small-Scale Enterprises. (CO4, K4)

Or

- (b) Present the marketing issues faced by Small-Scale Enterprises. (CO4, K4)

20. (a) Discuss the challenges involved in the management of family enterprises. (CO5, K5)

Or

- (b) How are stabilization strategies helpful for Small-Scale enterprises? Discuss. (CO5, K5)
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R2342

Sub. Code

645NM2

M.B.A. DEGREE EXAMINATION, NOVEMBER – 2024

Tourism Management

NME : HOSPITALITY AND HOTEL MANAGEMENT

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct answer.

1. The hotels that are located on highways is called
(CO1, K1)
(a) Motel (b) Floatel
(c) Transit hotel (d) Suburban Hotel
2. _____ is the sub department of front office.
(CO1, K1)
(a) Telephones (b) Reservation
(c) Valet (d) Lobby
3. The plan along with breakfast, lunch or dinner is called
(CO2, K1)
_____.
(a) MAP (b) CP
(c) EP (d) BP
4. The program that certifies safe and hygiene practices is
(CO2, K1)
_____.
(a) HRACC (b) SIHRA
(c) HACCP (d) CDC
5. Who is the head of F&B production department?
(CO3, K2)
(a) Boulanger (b) Chef de cuisine
(c) Tournant (d) Garde Manger

6. A highly trained member of the staff who takes care of all needs of in-house guest is _____. (CO3, K1)
 - (a) Captain (b) Sommelier
 - (c) Butler (d) Waiter
7. The other name for departure is (CO4, K1)
 - (a) Check-out (b) Arrival
 - (c) Pre-arrival (d) None of these
8. A guest who leaves the hotel without making the final settlement is (CO4, K1)
 - (a) Thief (b) Porter
 - (c) Busboy (d) Skipper
9. Accounts assigned to individual guests or a guestroom is known as _____. (CO5, K2)
 - (a) Master Folio (b) Guest Folio
 - (c) City Folio (d) All the above
10. _____ is a voucher used to support the cash disbursed by the hotel on behalf of a guest. (CO5, K2)
 - (a) Cash (b) Paid-outs
 - (c) Allowance (d) Charge

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Write about the types of hotels based on location. (CO1, K1)

Or

- (b) Explain the various F&B outlets in a hotel. (CO1, K1)

12. (a) Write short notes on Meal plans. (CO2, K2)

Or

- (b) Draw the organizational chart of front office department. (CO2, K2)

13. (a) Write about the types of guests in a hotel. (CO3, K2)

Or

- (b) Why does effective communication skills are required for a hotel staff? (CO3, K3)

14. (a) Write about the left luggage procedure to be followed. (CO4, K1)

Or

- (b) How to handle the guest complaints. (CO4, K2)

15. (a) Describe about yield management in hotel reception. (CO5, K2)

Or

- (b) Write the formulas for ARR, ADR, RevPar. (CO5, K4)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain about the distinctive characteristics of Hospitality industry. (CO1, K2)

Or

- (b) Describe the concept of Atithi Devo Bhavah in guest service. (CO1, K4)

17. (a) Write in detail about operational and supporting departments in a hotel. (CO2, K2)

Or

- (b) Explain the recent trends in food and lodging industry. (CO2, K4)

18. (a) What are the procedures to be followed while assigning a room to guest? (CO3, K4)

Or

- (b) List out the various types of rooms in a hotel along with the description. (CO3, K1)

19. (a) Describe about the custody and control of keys in housekeeping. (CO4, K4)

Or

- (b) Explain about the Mail handling and Message handling procedure in detail. (CO4, K3)

20. (a) Explain the elements and benefits of yield management in hotels. (CO5, K3)

Or

- (b) How to evaluate the hotel performance using various formulas? (CO5, K4)

R2343

Sub. Code

646NM2

M.B.A. DEGREE EXAMINATION, NOVEMBER – 2024

Disaster Management

NME : CLIMATE CHANGE AND SOCIETY

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions
by choosing the correct option.

1. Which of the following gases is primarily responsible for the greenhouse effect? (CO1, K2)
(a) Carbon Dioxide (b) Oxygen
(c) Nitrogen (d) Hydrogen
2. Which of the following is a potential impact of climate change on human health? (CO1, K2)
(a) Improved air quality
(b) Increased frequency of extreme weather events
(c) Decreased sea levels
(d) Reduction in global temperatures
3. Which body of the United Nations is primarily responsible for climate change issues? (CO2, K2)
(a) UNESCO (b) UNDP
(c) UNFCCC (d) WHO

4. What is the National Action Plan on Climate Change (NAPCC) in India aimed at? (CO2, K2)
- (a) Increasing coal production
 - (b) Promoting sustainable development
 - (c) Reducing the number of electric vehicles
 - (d) Expanding urban areas without planning
5. What is the primary goal when determining relief needs during a disaster? (CO3, K2)
- (a) Increase carbon emissions
 - (b) Halt all agricultural activities
 - (c) Assess the immediate needs of affected populations
 - (d) Promote fossil fuel usage
6. Which policy is crucial for promoting climate change adaptation in agriculture? (CO3, K2)
- (a) Implementing sustainable farming practices
 - (b) Expanding urban development
 - (c) Reducing renewable energy usage
 - (d) Increasing fossil fuel subsidies
7. What is a primary goal of assessing the impact of climate change on water resources? (CO4, K2)
- (a) To increase fossil fuel use
 - (b) To expand urban areas
 - (c) To promote industrial growth
 - (d) To understand changes in water availability and quality

8. What is a common adaptation measure for water resource management in response to climate change? (CO4, K2)
- (a) Building more coal-fired power plants
 - (b) Enhancing rainwater harvesting systems
 - (c) Expanding urban sprawl
 - (d) Increasing the use of non-renewable resources
9. What is a common impact of climate change on coastal zones? (CO5, K2)
- (a) Decreased air temperatures
 - (b) Reduced UV radiation
 - (c) Increased landmass area
 - (d) Increased sea level rise
10. What is a key feature of effective governance for coastal adaptation? (CO5, K2)
- (a) Lack of stakeholder involvement
 - (b) Comprehensive and inclusive policy frameworks
 - (c) Minimal regulation of coastal development
 - (d) Ignoring scientific research

Part B (5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Explain the concept of adaptation to climate change and provide an example of an adaptation strategy used in agriculture. (CO1, K3)
- Or
- (b) Describe how extreme weather events can impact public health and provide an example of a health impact caused by such an event. (CO1, K3)

12. (a) Explain the role of the Paris Agreement in global climate change adaptation efforts. (CO2, K3)

Or

- (b) Discuss how local governments in India can contribute to national climate change adaptation strategies. Provide one example of a local initiative.

(CO2, K4)

13. (a) Explain the significance of a Agricultural needs assessment in disaster relief planning. (CO3, K3)

Or

- (b) Evaluate the impact of climate change on smallholder farmers and the strategies they can adopt to adapt to these climatic changes. (CO3, K4)

14. (a) Describe how community involvement can enhance the effectiveness of disaster relief efforts in Water resource Management. (CO4, K3)

Or

- (b) Describe the effectiveness of sustainable water management practices in adapting to climate change. (CO4, K4)

15. (a) Discuss one adaptation strategy for managing coastal erosion. (CO5, K3)

Or

- (b) Explain the effectiveness of current policies for coastal adaptation. Suggest improvements.

(CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Illustrate the effectiveness of current global policies aimed at climate change adaptation. (CO1, K5)

Or

- (b) Explain the impact of climate change on coastal communities. (CO1, K4)

17. (a) Evaluate the importance of integrating adaptation into development planning. Provide case studies to illustrate successful integration and the outcomes achieved. (CO2, K5)

Or

- (b) Explain the progress of India's climate change policies in integrating adaptation and mitigation efforts. (CO2, K5)

18. (a) Analyze the role of community participation in disaster relief planning and delivery. Discuss how involving local communities can improve the effectiveness of relief efforts. (CO3, K4)

Or

- (b) Evaluate the effectiveness of current policies and suggest improvements to better support farmers in adapting to climate change. (CO3, K4)

19. (a) Illustrate the governance and policies for climate change adaptation in water resource management. Provide examples of successful policy implementations and their outcomes. (CO4, K5)

Or

- (b) Express the concept of linking adaptation and mitigation in water resource management.

(CO4, K5)

20. (a) Explain the effectiveness of various adaptation options for coastal zones. Discuss their benefits and limitations. (CO5, K5)

Or

- (b) Evaluate the effectiveness of international agreements and collaborations in addressing coastal adaptation challenges. (CO5, K5)
-

R2344

Sub. Code

701NM2

M.A. DEGREE EXAMINATION, NOVEMBER – 2024

English

NME : ENGLISH FOR COMPETITIVE EXAMINATIONS

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by
choosing the correct option.

1. Which part of speech is the word 'run' in the following sentence?

'I will run to the store'.

(CO1, K2)

- (a) Noun (b) Verb
(c) Adjective (d) Adverb

2. Identify the noun phrase in the following sentence :
'The tired dog slowly wagged its tail'.

(CO1, K2)

- (a) The tired dog (b) Slowly wagged
(c) It's tail (d) The dog slowly

3. Identify the preposition in the following sentence :
'The book is on the table'.

(CO2, K6)

- (a) The (b) Book
(c) On (d) Table

4. Which of the following sentences is an example of subject-verb concord? (CO2, K6)
- (a) The cat and the dog chases each other
 - (b) The cat and the dog chase each other
 - (c) The cat chases the dog, and the dog chases the cat
 - (d) The cat chase the dog and the dog chase the cat
5. Which of the following sentences is in Past Perfect Tense? (CO3, K2)
- (a) I go to the store
 - (b) I went to the store
 - (c) I have gone to the store
 - (d) I had gone to the store
6. Which of the following sentences is in the superlative degree? (CO3, K2)
- (a) She is the most intelligent student in the class
 - (b) She is more intelligent than her siblings
 - (c) She is as intelligent as her parents
 - (d) She is intelligent
7. Which of the following sentences is an example of a complex sentence? (CO4, K5)
- (a) I went to the store, and I bought milk
 - (b) When I got home, I realized I had forgotten my keys
 - (c) She is studying to be a doctor
 - (d) He is tired because he didn't sleep well

8. Which of the following is a correct example of a complex sentence? (CO4, K5)
- (a) I went to the store, and she stayed home
 - (b) Although it was raining, I still went to the park
 - (c) The teacher is writing on the board
 - (d) The students are studying for their exam
9. Which part of the sentence contains the error? (CO5, K3)
- ‘The company will hires new employees next month.’
- (a) company
 - (b) will
 - (c) hires
 - (d) employees
10. What is the meaning of the word ‘malleable’? (CO5, K3)
- (a) Capable of being shaped or bent
 - (b) Unwilling to change or compromise
 - (c) Having a strong and rigid structure
 - (d) Having a light and fluffy texture

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Briefly explain any five types of Adjectives with suitable examples. (CO1, K2)

Or

- (b) Point out the differences between Demonstrative Pronoun and Demonstrative Adjective. (CO1, K2)

12. (a) Write five sentences of your own that ends with a preposition. (CO2, K6)

Or

- (b) Define Concord and classify it with suitable examples. (CO2, K6)
13. (a) Change the given Passive sentences to Active sentences. (CO3, K2)
- (i) The play was written by Shakespeare.
 - (ii) The package was delivered by the courier service.
 - (iii) The new policy has been implemented by the management
 - (iv) The beautiful painting was created by the artist.
 - (v) The data has been collected by the research team.

Or

- (b) Identify the correct form of the verb in parentheses to complete the sentence from the given options : (CO3, K2)
- (i) 'If I ————— (have) more time, I would help you'.
- (1) have
 - (2) has
 - (3) had
 - (4) having

(ii) 'By next year, I _____ (study) English for five years'.

- (1) will study
- (2) study
- (3) am studying
- (4) will have studied

(iii) 'By the time I arrived, they _____ (finish) their project'.

- (1) finish
- (2) finishes
- (3) finished
- (4) had finished

(iv) 'If I _____ (not spend) so much money, I would be rich now'.

- (1) do not spend
- (2) did not spend
- (3) have not spent
- (4) had not spent

(v) 'By next month, I _____ (attend) three conferences'.

- (1) will attend
- (2) attend
- (3) am attending
- (4) will have attended

14. (a) Identify the type of sentence from the given options : (CO4, K5)

(i) The weather is sunny.

- (1) Simple
- (2) Compound
- (3) Complex
- (4) Compound-complex

(ii) I love reading books, and my favourite author is Jane Austen.

- (1) Simple
- (2) Compound
- (3) Complex
- (4) Compound-complex

(iii) The student who is sitting in the back of the classroom is from Japan.

- (1) Simple
- (2) Compound
- (3) Complex
- (4) Compound-complex

(iv) I went to the store because I needed to buy milk.

- (1) Simple
- (2) Compound
- (3) Complex
- (4) Compound-complex

(v) My favourite food is pizza, but my sister loves sushi.

- (1) Simple
- (2) Compound
- (3) Complex
- (4) Compound-complex

Or

(b) Write a note on the Adjective phrase and Adverbial phrase. (CO4, K5)

15. (a) Explain the meaning of the Idioms and frame a sentence of your own. (CO5, K3)

- (i) Needle in haystack
- (ii) Oil someone's palm
- (iii) the jury is out
- (iv) Magic carpet
- (v) A labour of Hercules.

Or

(b) Spot the error in the given sentences below : (CO5, K3)

- (i) None of them have arrived yet
- (ii) None is genuine
- (iii) Much water is wasted
- (iv) Many students has turned up for the seminar
- (v) I go to school on bus

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain the Parts of Speech with suitable examples.
(CO1, K2)

Or

- (b) Classify what noun phrases, adjective phrases, and adverbial phrases.
(CO1, K2)

17. (a) Fill in the blanks with the correct preposition :
(CO2, K6)

- (i) The new policy comes ————— effect next month.
- (ii) The company is located the heart of the city.
- (iii) The teacher is standing ————— the front of the classroom.
- (iv) The students are gathered ————— the conference room.
- (v) The report is due ————— the end of the week.
- (vi) The customer is waiting ————— a response to their inquiry.
- (vii) The package is being shipped ————— express mail.
- (viii) The hotel room has a view ————— the city skyline.

Or

(b) Select the correct form of the verb in brackets to complete the sentence : (CO2, K6)

- (i) The team _____ (to win) the championship last year.
- (ii) The student _____ (to study) hard for the exam.
- (iii) The company _____ (to expand) its operations into new markets.
- (iv) The weather _____ (to be) hot and sunny all week.
- (v) The teacher _____ (to teach) English for over 10 years.
- (vi) The new employee _____ (to learn) the ropes quickly.
- (vii) The customer _____ (to receive) a full refund.
- (viii) The hotel _____ (to offer) a free breakfast buffet.

18. (a) Explain how tenses are used in a sentence and show the aspects of tenses with suitable example. (CO3, K2)

Or

(b) What are the degrees of comparison and explain the types and rules with suitable example. (CO3, K2)

19. (a) Explain why we need a transformation in a sentence. (CO4, K5)

Or

(b) Explain Simple, Compound, and complex sentences with suitable examples. (CO4, K5)

20. (a) Discuss what vocabulary and explain its four types.
(CO5, K3)

Or

- (b) (i) Explain the meaning of the idiom and frame a sentence of your own. (CO5, K3)
- (1) Cost an arm and a leg
 - (2) Cut to the chase
 - (3) Easy does it
 - (4) Give someone the benefit of the doubt
- (ii) Spot the error and write the correct sentence.
- (1) The teacher give us a lot of homework tonight.
 - (2) The cat chase it's tail with excitement.
 - (3) The students was very happy about the summer break.
 - (4) The book, which author is unknown, is on the bestseller list.
-

R2345

Sub. Code

720NM3

B.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Physical Education

NME : SPORTS TRAINING

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective question
by choosing the correct options.

1. _____ refers to a systematic process of preparing athletes to improve their performance in specific sports.
(CO1, K2)
(a) Training load
(b) Sports psychology
(c) Sports competition
(d) Sports training
2. _____ refers to the amount and intensity of physical training and athlete undergoes over a specific period.
(CO1, K2)
(a) Intensity (b) Frequency
(c) Training load (d) Volume
3. _____ in training should gradually increase in difficulty to allow the body to adapt.
(CO2, K2)
(a) Specificity (b) Progression
(c) Overload (d) None of the above

4. _____ is a mix of continuous running with varying speeds and intensities, is also call speed play. (CO2, K2)
 - (a) Fartlek training (b) Circuit training
 - (c) Interval training (d) Both (a) and (b)
5. _____ sets long-term goals and outlines the overall training plan, including key competitions. (CO3, K4)
 - (a) Learning (b) Micro cycle
 - (c) Meso cycle (d) Macro cycle
6. The initial training phase in periodization is often referred to as the _____. (CO3, K4)
 - (a) Competition phase
 - (b) Transition phase
 - (c) General preparatory phase
 - (d) All of these
7. _____ are typically covers key concepts and practices essential for effective coaching and physical education. (CO4, K4)
 - (a) Fundamentals of physical education
 - (b) Sports coaching
 - (c) Preparation
 - (d) Both (a) and (b)
8. _____ is a training method that alternates periods of high-intensity exercise with periods of lower-intensity exercise or rest. (CO4, K4)
 - (a) Circuit training (b) Interval training
 - (c) Fartlek training (d) None of these
9. Shuttle run is help to test _____. (CO5, K5)
 - (a) Agility (b) Speed
 - (c) Strength (d) Endurance

10. _____ test is not come under the cardiovascular fitness test. (CO5, K5)

- (a) VO2 Max Test (b) 1.5 – Mile Run Test
(c) JCR Test (d) Cooper Test

Part B (5 × 5 = 25)

Answer **all** the questions, not more than 500 words each.

11. (a) Illustrate the training load. (CO1, K2)

Or

(b) Explain the definition and meaning of sports training. (CO1, K2)

12. (a) Express the strength training. (CO2, K2)

Or

(b) Write about outline flexibility development. (CO2, K2)

13. (a) Simplify the planning of training programme. (CO3, K4)

Or

(b) Interpret the short term and long term in sports training. (CO3, K4)

14. (a) Classify the principles in sport fitness training. (CO4, K4)

Or

(b) Write simplify the weight training. (CO4, K4)

15. (a) Interpret the movement analysis. (CO5, K5)

Or

(b) Explain the any one types of motor fitness test. (CO5, K5)

Part C

(5 × 8 = 40)

Answer **all** the questions, not more than 1000 words each.

16. (a) Express the aims and objectives of sports training.
(CO1, K2)

Or

- (b) Illustrate the characteristics and principles of sports training.
(CO1, K2)

17. (a) Explain the principles of strength training.
(CO2, K2)

Or

- (b) Express the training methods for flexibility development.
(CO2, K2)

18. (a) Generate the periodisation in detail. (CO3, K4)

Or

- (b) Classify the training cycles in detail. (CO3, K4)

19. (a) Interpret fundamental of physical education.
(CO4, K4)

Or

- (b) Examine in detail about the types of training in sports.
(CO4, K4)

20. (a) Explain in detail about administration of motor fitness test.
(CO5, K5)

Or

- (b) Compare and interpret 12 minutes cooper run or walk test and 1.5 mile run or walk test. (CO5, K5)

R2346

Sub. Code

724NM1

B.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Yoga

NME : YOGIC SCIENCE

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective question by choosing the correct option.

1. _____ in Suriya Namaskar. (CO1, K1)
(a) 12 counts (b) 14 counts
(c) 16 counts (d) 18 counts
2. Hasta Padasana _____ steps in Suriya Namaskar. (CO1, K1)
(a) 11 (b) 4
(c) 3 (d) 8
3. Asana will come in _____ stage in 8 limbs of Yoga. (CO2, K2)
(a) 2 (b) 5
(c) 4 (d) 3
4. Matsyasana poster is _____. (CO2, K2)
(a) Wheel Poster (b) Fish Poster
(c) Boat Poster (d) Lotus Poster

5. _____ is the second limb of sadanga yoga sadhana. (CO3, K1)
- (a) Niyama (b) Asana
(c) Pranayama (d) Pratyahara
6. _____ is other name of kapalabhati. (CO3, K1)
- (a) Pranayama (b) Shatkarma
(c) Basti (d) Bandhas
7. _____ types in Kriyas. (CO4, K1)
- (a) 7 (b) 4
(c) 6 (d) 8
8. Bandhas under _____ Yoga. (CO4, K4)
- (a) Kundalini Yoga (b) Hatha Yoga
(c) Ashtanga Yoga (d) Raja Yoga
9. _____ is the meaning/definition of Mudra. Check all that applies. (CO5, K5)
- (a) Lock (b) Seal
(c) Gesture (d) Circuit by pass
10. Meditation can only be practiced if you are _____. (CO5, K5)
- (a) Non - Religious (b) Religious
(c) Both (d) None of these

Part B (5 × 5 = 25)

Answer **all** the questions not more 500 words each.

11. (a) List out the steps of Chair Suriyanamaskar. (CO1, K1)
- Or
- (b) What are the benefits of Suriyanamaskar?(CO1, K1)

12. (a) Define the classification of Asanas. (CO2, K2)

Or

- (b) Describe the advanced Asanas. (CO2, K2)

13. (a) Write the uses of Pranayama. (CO3, K3)

Or

- (b) List out of the sectional Breathing. (CO3, K3)

14. (a) Classify the Kriyas. (CO4, K4)

Or

- (b) Discover the type of Bandhas. (CO4, K4)

15. (a) Write about the Interpret of Mudras. (CO5, K5)

Or

- (b) Write about the Importance of Meditation. (CO5, K5)

Part C (5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Explain the Suryanamaskar with all counts. (CO1, K1)

Or

- (b) Explain the Chandra Suryanamaskar. (CO1, K1)

17. (a) Discuss the role of Asanas for Healthy Life. (CO2, K2)

Or

- (b) Discuss the categorize Asanas with examples. (CO2, K2)

18. (a) How to apply the through Pranayama for our healthy life? (CO3, K3)

Or

- (b) Determine the role of Pranayama on Physiological Functions. (CO3, K3)

19. (a) Explain about the Kriyas in detail. (CO4, K4)

Or

- (b) Examine in the practicing methods of Kriyas. (CO4, K4)

20. (a) Discuss the role of meditation in Stress Management. (CO5, K5)

Or

- (b) Discuss the Yoga Therapy for disorders. (CO5, K5)

R2347

Sub. Code

741NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Education

NME: ENVIRONMENTAL EDUCATION

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct options.

1. Environmental Education aims to empower individuals to
(CO1, K2)
 - (a) Be passive observers of environmental degradation
 - (b) Take responsible action to improve the environment
 - (c) Increase industrial pollution
 - (d) Focus only on recycling activities
2. Which of the following is a prerequisite for successful environmental education?
(CO1, K1)
 - (a) A purely theoretical approach without hands-on activities
 - (b) Community involvement and interdisciplinary learning
 - (c) Focusing only on classroom-based instruction
 - (d) Teaching environmental issues without relating them to daily life

3. Which institution is responsible for developing the Environmental Education curriculum at the school level in India? (CO2, K2)
- (a) UGC (b) NCERT
(c) AICTE (d) MHRD
4. The University Grants Commission (UGC) plays a key role in promoting Environmental Education at which educational level? (CO2, K1)
- (a) Primary schools
(b) Secondary schools
(c) Higher education institutions
(d) Kindergartens
5. What is the primary cause of the environmental crisis? (CO3, K1)
- (a) Excessive industrial growth
(b) Cultural traditions
(c) Decreased population
(d) Increase in renewable energy
6. What is the main objective of environmental conservation? (CO3, K2)
- (a) To promote rapid urbanization
(b) To conserve natural resources and biodiversity
(c) To increase the use of fossil fuels
(d) To focus only on industrial development
7. Which type of pollution is caused by excessive vehicle emissions? (CO4, K1)
- (a) Land pollution (b) Air pollution
(c) Water pollution (d) Noise pollution

8. What is the primary cause of the greenhouse effect?
(CO4, K1)
- (a) Excessive deforestation
 - (b) Emission of greenhouse gases like carbon dioxide and methane
 - (c) Increased use of wind energy
 - (d) Reduction in the use of fossil fuels
9. What is the most common cause of forest fires? (CO5, K2)
- (a) Lightning strikes and human activities
 - (b) Excessive rainfall
 - (c) Natural cooling of temperatures
 - (d) Ocean currents
10. Which of the following is an example of an environmental movement in India? (CO5, K1)
- (a) Green Revolution
 - (b) Chipko Movement
 - (c) Industrial Revolution
 - (d) Digital Revolution

Part B

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) What strategies you would implement to address the challenges in environmental education in the local community? (CO1, K3)
- Or
- (b) How could you adapt environmental education to address specific issues like climate change and pollution in a classroom setting? (CO1, K3)

12. (a) Explain the role of NCERT in developing environmental education curriculum reflected in the School education and list any two teaching strategies employed by educators? (CO2, K3)

Or

- (b) Compare and contrast the environmental education curriculum in India with that of Any other country. What best practices can be identified and potentially adopted in India? (CO2, K4)
13. (a) Analyze the causes and consequences of the major environmental problems in India, such as air pollution and deforestation. (CO3, K4)

Or

- (b) Explain the role of major constitutional amendments in India which have impact on environmental conservation. (CO3, K3)
14. (a) How do the greenhouse effect and ozone layer depletion contribute to environmental hazards? (CO4, K4)

Or

- (b) What are the underlying causes of forest fires, and how do they relate to environmental hazards and climate change? (CO4, K4)
15. (a) How would you apply the principles of the Chipko Movement to current environmental challenges related to deforestation in India? (CO5, K3)

Or

- (b) What were the major achievements of the Rio Summit, and how do they relate to the contemporary global environmental agenda? (CO5, K4)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Discuss the relationship between environmental education and sustainable development. (CO1, K4)

Or

- (b) Examine the goals and objectives of environmental education. How do these goals align with contemporary environmental issues, such as climate change and biodiversity? (CO1, K4)
17. (a) Examine the challenges faced by NCERT and UGC in developing a comprehensive environmental education curriculum. What strategies could be employed to overcome these challenges? (CO2, K4)

Or

- (b) Critically assess the role of educational institutions in promoting environmental education. Are they fulfilling their responsibilities adequately? Why or why not? (CO2, K5)
18. (a) Analyze the impact of science and technology on the current environmental crisis. How the advancements in technology contribute to mitigate environmental issues? (CO3, K4)

Or

- (b) Design a national program that integrates science, technology, and cultural values to solve India's most environmental problems, such as pollution and resource depletion. (CO3, K5)

19. (a) Assess the impact of various type of Pollution (land, air, water, noise, and radiation) in an urban area with illustrations. (CO4, K6)

Or

- (b) Assess the impact of various environmental policies on the conservation of flora and fauna. To what extent have these measures succeeded in preventing the species of extinction to enhance biodiversity conservation. (CO4, K6)
20. (a) Evaluate the effectiveness of the Chipko Movement in preventing deforestation. What were its long-term impacts on environmental activism in India? (CO5, K6)

Or

- (b) Create an action plan for implementing the main features of the Rio Declaration in a developing nation. (CO5, K6)
-

R2348

Sub. Code

743NM2

**M.Ed. Spl. Edn. DEGREE EXAMINATION,
NOVEMBER – 2024**

Special Education (Visual Impairment)

NME : MINDFULNESS

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the objective questions by choosing
the correct option.

1. Which part of the brain is associated with self-regulation in mindfulness? (CO1, K1)
(a) Hippocampus (b) Amygdala
(c) Prefrontal cortex (d) Cerebellum
2. Which of the following is a principle of mindfulness? (CO1, K1)
(a) Judgment (b) Patience
(c) Overthinking (d) Criticism
3. Mindfulness of the body focuses on which of the following? (CO2, K4)
(a) Bodily sensations
(b) External distractions
(c) Cognitive thoughts
(d) Social interactions
4. What is the importance of feeling the body in mindfulness practice? (CO2, K4)
(a) To improve muscle tone
(b) To stay grounded in the present
(c) To increase physical activity
(d) To distract the mind from thoughts

5. This part of the brain is most involved in empathy.
(CO3, K1)
- (a) Amygdala (b) Cerebellum
(c) Prefrontal cortex (d) Brainstem
6. Which of the following is linked to mindfulness of emotions?
(CO3, K1)
- (a) Multitasking and self-discipline
(b) Physical strength
(c) Empathy and brain
(d) Memory retention
7. Mindfulness of breathing helps in promoting _____ state.
(CO4, K2)
- (a) Hyperactivity (b) Conscious awareness
(c) Sleep (d) Distraction
8. Which of the following is associated with forgiveness in mindfulness?
(CO4, K2)
- (a) Emotional suppression
(b) Letting go of grudges
(c) Being judgmental
(d) Ignoring feelings
9. Mindfulness in daily life helps to improve _____.
(CO5, K6)
- (a) Creativity (b) Stress levels
(c) Cognitive function (d) All of the above
10. _____ practice involves applying mindfulness in social interactions.
(CO5, K6)
- (a) Interpersonal mindfulness
(b) Mindful posture
(c) Mindful eating
(d) Self-criticism

Part B

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Brief the concept of Mindfulness. (CO1, K1)

Or

- (b) State the definition of Mindfulness. (CO1, K1)

12. (a) What do you mean by mindfulness of body?
(CO2, K4)

Or

- (b) Enumerate the process of mindfulness of the body.
(CO2, K4)

13. (a) Write a short note on Mindfulness of Emotions.
(CO3, K1)

Or

- (b) Briefly explain about Emotional regulation.
(CO3, K1)

14. (a) Brief about the Mindfulness of Posture. (CO4, K2)

Or

- (b) Reflect on the Mindfulness of Breathing. (CO4, K2)

15. (a) Elucidate the concept of Interpersonal Mindfulness.
(CO5, K6)

Or

- (b) Write a note on Mindfulness of Daily life. (CO5, K6)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Enumerate the Principles of Mindfulness. (CO1, K1)
Or
(b) Analyse the role of Pre-frontal cortex in the Self-regulation process. (CO1, K1)
17. (a) Brief the practices to maintain body mindfulness. (CO2, K4)
Or
(b) Discuss the advantages of Body Mindfulness. (CO2, K4)
18. (a) Describe the influence of neurobiology on thoughts and emotions. (CO3, K1)
Or
(b) Enumerate the ways to work with Emotional intensity. (CO3, K1)
19. (a) Explain the difference between Mindfulness and Consciousness. (CO4, K2)
Or
(b) Discuss the management of Inner critic through Mindfulness and Self-compassion. (CO4, K2)
20. (a) Summarize the need for Mindfulness in our day-to-day activities. (CO5, K6)
Or
(b) Analyse the various aspects of Daily life where Mindfulness can be practiced. (CO5, K6)

R2349

Sub. Code

813NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Yoga

NME : SCIENCE OF YOGA

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective questions by choosing the correct option.

1. Yoga means maintaining the evenness of mind which is known as _____ for the efficient performance of work. (CO1, K1)
 - (a) Karmasukausalam
 - (b) Samatvam
 - (c) Purushav
 - (d) Dukhasamyogaviyoga
2. Which form of yoga emphasizes selfless action and duty as a way to attain spiritual enlightenment? (CO2, K2)
 - (a) Bhakthi Yoga (b) Karma Yoga
 - (c) Raja Yoga (d) Jnana Yoga
3. Who said Yoga is a “means of compressing one’s evolution into a single life”? (CO5, K3)
 - (a) Rabindranath Tagore
 - (b) Buddha
 - (c) Swami Vivekananda
 - (d) Gandhi

4. Body and mind in yoga (CO3, K4)
 - (a) influences the chemistry
 - (b) awareness in every day life
 - (c) improved mental health
 - (d) fitness
5. The thunderbolt yoga pose, also known as (CO2, K5)
 - (a) Padmasana (b) Vajrasana
 - (c) Trikonasana (d) Tadasana
6. To increasing concentration and knowledge (CO4, K4)
 - (a) Jnana mudra (b) Chin mudra
 - (c) Vayu mudra (d) Agni mudra
7. In Sanskrit, Kriyas means (CO3, K3)
 - (a) Emotion (b) Effort
 - (c) Expression (d) Evaluate
8. Pranayama means (CO6, K4)
 - (a) Exercise (b) Asanas
 - (c) Breathing (d) Fitness
9. When is World Meditation Day celebrated? (CO1, K6)
 - (a) March 11 (b) November 17
 - (c) May 11 (d) May 21
10. Meditation means (CO2, K5)
 - (a) Dhyana (b) Conductor behavior
 - (c) disease free life (d) promote over all well-being

Part B**(5 × 5 = 25)**

Answer **all** questions not more than 500 words each.

11. (a) Explain the concept of Yoga practices. (CO1, K2)

Or

- (b) Write about the importance of yogic practice. (CO1, K2)

12. (a) Define Asanas and classify the asanas. (CO2, K2)

Or

- (b) Difference between asanas and physical exercise. (CO2, K2)

13. (a) Write down the guidelines of breathing. (CO3, K3)

Or

- (b) Explain the benefits of Pranayama. (CO3, K3)

14. (a) State that kriyas and mudras. (CO4, K3)

Or

- (b) Explain about the practicing methods of mudras. (CO4, K3)

15. (a) Write down the concept of meditation. (CO5, K4)

Or

- (b) Discuss the benefits of meditation. (CO5, K4)

Part C**(5 × 8 = 40)**

Answer **all** the questions not more than 1000 words each.

16. (a) Explain the principles of yogic practices. (CO1, K4)

Or

- (b) Describe about the suryanamskar. (CO1, K4)

17. (a) Explain in detail about the Vajrasana and Padmasana. (CO2, K3)

Or

- (b) Write the essentials, limitations and benefits of asanas. (CO2, K3)

18. (a) Write about the techniques of pranayama. (CO3, K4)

Or

- (b) Explain the phases of breathing in pranayama. (CO3, K4)

19. (a) Explain the types of kriyas. (CO5, K4)

Or

- (b) Explain the types of mudras. (CO5, K4)

20. (a) Illustrate the techniques of meditation. (CO4, K5)

Or

- (b) How does meditation helps the individual. Explain. (CO4, K5)

R2350

Sub. Code

932NM2

M.Sc. DEGREE EXAMINATION, NOVEMBER – 2024

Library and Information Science

**NME – ELECTRONIC INFORMATION SOURCES AND
SERVICES**

(CBCS – 2022 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 1 = 10)

Answer **all** the following objective type questions by choosing
the correct option.

1. What is the meaning of e-documents? (CO1, K2)
 - (a) Documents other than printed
 - (b) Non-paper documents
 - (c) Documents in electronic form
 - (d) Audio- visual tools
2. Article published in research journals are (CO1, K2)
 - (a) Secondary source (b) Primary source
 - (c) Tertiary source (d) Reference source
3. DOAB stands for (CO2, K2)
 - (a) Directory of Open Access Books
 - (b) Directory of Open Archive Books
 - (c) Directory of Online Access Books
 - (d) Directory of Online Archive Books

4. What is a blog? (CO2, K2)
- (a) A static website
 - (b) A website to display company details
 - (c) A website with content updating from time to time
 - (d) All the above
5. SCOPUS is an (CO3, K3)
- (a) Full text database
 - (b) Numerical database
 - (c) Indexing database
 - (d) Abstract and Citation database
6. Academic search ultimate is the product of (CO3, K3)
- (a) EBSCO (b) Sage
 - (c) Elsevier (d) Springer
7. Digital collections developed for capturing the intellectual output of single or multi institution is called (CO4, K4)
- (a) Digital Publishing (b) Digital Repository
 - (c) Digital Archive (d) Digital library
8. The term virtual library was initially used interchangeably with _____ (CO4, K4)
- (a) Digital library (b) Automated library
 - (c) National library (d) Special library
9. What is the main function of Archie? (CO5, K2)
- (a) Helps to find information located anywhere on Internet
 - (b) Helps to find information by Password
 - (c) Helps to find information on the www of Internet
 - (d) Helps to find information on Internet

10. What are called those libraries in which services are fully automated and all resources are in digitized form?
(CO5, K2)
- (a) Digital libraries (b) Electronic libraries
(c) Virtual libraries (d) Libraries without walls

Part B (5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Provide an overview of documentary sources of information.
(CO1, K2)

Or

- (b) Describe primary information sources using examples.
(CO1, K2)

12. (a) Give brief description of Subject Gateways.
(CO2, K2)

Or

- (b) Write a short note on Dictionaries. (CO2, K2)

13. (a) Discuss the significance of a citation database.
(CO3, K3)

Or

- (b) Databases - what are they? Give a few examples.
(CO3, K3)

14. (a) Describe biographical sources and give examples.
(CO4, K4)

Or

- (b) Discuss e-Shodhsindhu. (CO4, K4)

15. (a) Identify the difference between an information center and a documentation center. (CO5, K2)

Or

- (b) Analyze the role of publishing houses in the generation of information. (CO5, K2)

Part C

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Provide an overview of the different sources of information (CO1, K2)

Or

- (b) Examine how information sources are evaluated. (CO1, K2)

17. (a) Describe various forms of e-resources. (CO2, K2)

Or

- (b) Examine the characteristics of Internet information resources. (CO2, K2)

18. (a) Describe the different types of databases. (CO3, K3)

Or

- (b) Discuss the importance of repositories. (CO3, K3)

19. (a) Assess the need for resource sharing. Explore the various ways libraries can share resources. (CO4, K4)

Or

- (b) Explain the need for and importance of library networks. Explain how library networks are beneficial. (CO4, K4)

20. (a) What are the different components of an information system? (CO5, K2)

Or

- (b) Discuss the role of the Internet in publishing. (CO5, K2)