Sub. Code 301NM2

B.Voc. DEGREE EXAMINATION, APRIL - 2025

Fashion Technology

NME: VISUAL MERCHANDISING

		(CBCS –	2022	onwards)			
Time: 3 Hours Maximum: 75 Marks							
		I	Part A	Λ	$(10 \times 1 = 10)$		
	Ans	wer all questions b	y cho	osing the correct	option.		
1.	Name the practice of organizing and displaying products in a retail space used to highlight products and incressale (CO1, 1						
	(a)	Merchandising					
	(b)	Visual merchandi	sing				
	(c)	Store exterior					
	(d)	Store interior					
2.		purpose of visual customer towards n			(CO1, K1)		
	(a)	Attract	(b)	Engage			
	(c)	Motivate	(d)	All the above			
3.	Prin	ciple of dominance	and s	ubordination is	(CO2, K1)		
	(a)	Rhythm	(b)	Balance			
	(c)	Proportion	(d)	Emphasis			
4.	Whie shop	ch of the followin	g ma	kes first impres	ssion on the (CO2, K1)		
	(a)	Awnings	(b)	Marquees			
	(c)	Signs	(d)	Planter			

5.		en you want aisle I-to-wall, which layo		er aisle of products pa ill you need? (CO3	icked s, K1)
	(a)	Herringbone	(b)	Grid	
	(c)	Free flow	(d)	Race track	
3.		ose the design eler out planning.	nent	used to create mood in (CO3	store s, K1)
	(a)	Proportion	(b)	Colour	
	(c)	Emphasis	(d)	Balance	
7.	-	ou want to create owing colour would		eling of royalty which o	f the , K2)
	(a)	Blue	(b)	Green	
	(c)	Yellow	(d)	Purple	
3.		ch of the following te and neutrals?	g colo	our schemes relies on b	olack, , K1)
	(a)	Analagous	(b)	Monochromatic	
	(c)	Achromatic	(d)	Complimentary	
	Wha	at is a façade?		(CO ₅	, K1)
	(a)	Structure over en	tranc	e	
	(b)	Aisle			
	(c)	Front exterior of a	a buil	ding	
	(d)	Flooring			
0.	and			ated, used by window dre play or fit clothing and (CO5	
		Marquee	(b)	Façade	
	(a)	1.101 4 100			
	(a) (c)	Mannequin	(d)	Merchandise	

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Outline the role of atmosphere in garment retailing. (CO1, K2)

Or

- (b) Discuss the concepts and role of visual merchandising (CO1, K2)
- 12. (a) Suggest tips to create appealing store atmosphere. (CO2, K2)

Or

- (b) How can emphasis be achieved in display? Explain. (CO2, K2)
- 13. (a) How does simplicity and repetition help create mood? (CO3, K2)

Or

- (b) Write about direction of flow and planogram. (CO3, K2)
- 14. (a) Brief on psychology of colour. (CO4, K2)

Or

- (b) Explain the following (i) Assortment (ii) Ensemble (iii) Theme (CO4, K3)
- 15. (a) Choose two types of lightings suitable for store interior and explain them. (CO5, K3)

Or

(b) Brief on campaign and promotional aspects.

(CO5, K2)

R3071

Part C $(5 \times 8 = 40)$ Answer all the questions, not more than 1000 words each 16. (a) Discuss the role of visual merchandisers in garment retailing. (CO1, K3) Or (b) Discuss the basic visual merchandising techniques to improve a stores appeal. (CO1, K2) 17. (a) Discuss about the factors considered in organizing effective displays in a store. (CO2, K3) Or(b) Discuss about execution of store layout. (CO2, K3) 18. Discuss about the design elements that creates (a) (CO3, K2) mood in store planning.

Or

- (b) Write about the various types of layouts suitable for an apparel retail store. (CO3, K3)
- 19. (a) With example explain how you will create a display for current trend. (CO4, K1)

Or

- (b) Discuss the role of colour in display. (CO4, K3)
- 20. (a) Summarize the interior and exterior displays used in garment retail outlet. (CO5, K2)

Or

(b) How are graphics and signage useful in creating a theme for display? (CO5, K3)

R3071

Sub. Code 302NM2

B.Voc. DEGREE EXAMINATION, APRIL - 2025

Software Development

			NME:WE	B DI	ESIG	NIN	\mathbf{G}			
	(CBCS – 2022 onwards)									
Time	e:3 H	lours				\mathbf{N}	Iaxin	num	: 75 Marks	
	$\mathbf{Part} \mathbf{A} \qquad (10 \times 1 = 10)$									
Answer all the following objective type questions by choosing the correct option.										
1.	How		layers are	ther	e in	the	ISO	OSI	reference (CO1, K1)	
	(a)	7		(b)	5					
	(c)	4		(d)	6					
2.	The	Internet	t is formed	by —			—.		(CO1, K1)	
	(a)	Single	packet swi	tching	S.					
	(b)	Multip	le packet s	witch	ing					
	(c)	Service	e provider							
	(d)	Multip	le service p	rovid	er					
3.			ail server s	sends	mail	to o	ther	mail	servers, it (CO2, K3)	
	(a)	SMTP	server	(b)	SM	TP c	lient			
	(c)	Peer no	etwork	(d)	Ma	ster j	page			

	ou have to send mu ncoded into		dia data over SMTP, it has to (CO2, K3)
(a)	Binary code	(b)	Signal code
(c)	ASCII code	(d)	Hash code
	method	returi	ns the day of the month. (CO3, K5)
(a)	getDate	(b)	getMonth
(c)	getDay	(d)	getHours
to th	buttoneir initial states.	n clea	rs all the controls in the form (CO3, K5)
(a)	Reset	(b)	Submit
(c)	Ok	(d)	Text area
 Java (a)	property a Script. list-style-type	define	es labels for a list of items in (CO4, K5)
(a) (b)	list-style-image		
(c)		a-tyne	
(d)	none of the ment		
— Java	opera aScript.	itor l	nas highest precedence in (CO4, K5)
(a)	++	(b)	==
(c)	>	(d)	&
	Bootstrap, the ed and style image		element is used to ocument. (CO5, K3)
(a)	<image/>	(b)	k>
(c)	<class></class>	(d)	<style></td></tr><tr><td>resp</td><td>class in</td><td></td><td>strap is used to provide a iner. (CO5, K3)</td></tr><tr><td>(a)</td><td>.container-fixed</td><td>(b)</td><td>.container-fluid</td></tr><tr><td>(c)</td><td>.container</td><td>(d)</td><td>all of the above</td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table></style>

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) What are the parts of Internet? Explain. (CO1, K1)

Or

(b) Write a note on Data Communication. (CO1, K1)

12. (a) Explain SMTP in detail. (CO2, K3)

Or

(b) Discuss the key standards of WWW. (CO2, K3)

13. (a) Explain how to insert a link in HTML. (CO3, K5)

Or

- (b) Write the procedure to use Audio and Video element in HTML. (CO3, K5)
- 14. (a) Describe about JavaScript Objects in detail.

(CO4, K5)

Or

(b) Describe about JavaScript Objects in detail.

(CO4, K5)

15. (a) Why Bootstrap is a promising framework? Explain. (CO5, K3)

Or

(b) Discuss how to add offset to columns using Bootstrap Grid Classes. (CO5, K3)

R3072

Part C $(5 \times 8 = 40)$

Answer all questions, not more than 1000 words each

16. (a) Illustrate the growth of Internet with neat sketch. (CO1,K1)

Or

- (b) Discuss in detail about OSI reference model. (CO1, K1)
- 17. (a) Write a detailed note on Domain Name System with examples. (CO2, K3)

Or

- (b) Explain any two standardized Email Representation. (CO2, K3)
- 18. (a) How Total Validator tool works in Images? Explain. (CO₃, K₅)

Or

- (b) Write a HTML code to create Application Form. (CO3, K5)
- 19. (a) Explain in detail about Conditional Statements in JavaScript with example. (CO4, K5)

Or

- (b) Write a program to handle events from button elements in JavaScript. (CO4, K5)
- 20. (a) Write the procedure to install and include Bootstrap in HTML file. (CO5, K5)

Or

(b) How to customize the grid for small devices in Bootstrap? Explain. (CO5, K5)

R3072

Sub. Code 303NM1

M.Voc. DEGREE EXAMINATION, APRIL - 2025

Fashion Technology

NME - FASHION DESIGNING

		NME - FAS	поп	DESIGNING
		(CBCS	- 2022	onwards)
Time	e : 3 F	Hours		Maximum: 75 Marks
		P	art A	$(10 \times 1 = 10)$
An	swer	_	objectiv correct	e type questions by choosing option.
1.	Whi	ch term described	l a shor	t-lived fashion trend? (CO1, K1)
	(a)	Chic	(b)	Knock-off
	(c)	Avant-garde	(d)	Fad
2.	Whi	ch of the followin	g is NO	T a type of design? (CO1, K1)
	(a)	Structural	(b)	Decorative
	(c)	Abstract	(d)	Sustainable
3.	Whi	ch of the followin	g is NO	T an element of design? (CO2, K1)
	(a)	Line	(b)	Shape
	(c)	Balance	(d)	Texture
4.		ch type of balar atical on both side		achieved when elements are (CO2, K1)
	(a)	Symmetrical	(b)	Asymmetrical
	(c)	Radial	(d)	Proportional

5.	Whi	ch of the following	is a s	econdary colour?	(CO3, K1)
	(a)	Red	(b)	Green	
	(c)	Yellow	(d)	Blue	
6.	A M	Ionochromatic colou	ır sch	eme uses:	(CO3, K1)
	(a)	One colour in diff	erent	shades	
	(b)	Opposite colours	on the	e colour wheel	
	(c)	Three equidistan	t colo	urs	
	(d)	Two adjacent colo	ours		
7.	Who	o is considered the	first n	nodern fashion des	signer? (CO4, K1)
	(a)	Ritu Kumar	(b)	Charles Frederic	k Worth
	(c)	Coco Chanel	(d)	Rohit Bal	
8.	hou	ich designer was ap se, Jean Louis Sch ections in 2002?	_		
	(a)	Ritu Ben	(b)	Ritu Kumar	
	(c)	Rohit Bal	(d)	Coco Chanel	
9.	Whi	ch city is known as	s the f	ashion capital of t	he world? (CO5, K1)
	(a)	Paris	(b)	Tokyo	
	(c)	New York	(d)	London	
10.	Wha	at is a wardrobe?			(CO5, K1)
	(a)	Fashion styling			
	(b)	Collection of cloth	nes		
	(c)	Image manageme	ent		
	(d)	Portfolio collectio	n		
			2		R3073
				_	

Part B

 $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Define fashion forecasting and explain its importance. (CO1, K2)

Or

(b) Describe a fashion cycle.

(CO1, K2)

12. (a) Explain the significance of balance in fashion design. (CO2, K2)

Or

- (b) How does proportion influence garment design? (CO2, K2)
- 13. (a) Describe the importance of colour psychology in fashion. (CO3, K2)

Or

- (b) What are analogous colours? Provide examples. (CO3, K2)
- 14. (a) Discuss the responsibilities of a fashion designer. (CO4, K3)

Or

- (b) Recall the works of J.J. valaya. (CO4, K2)
- 15. (a) Discuss the role of a fashion stylist. (CO5, K3)

Or

(b) List the major world fashion centres and their significance. (CO5, K2)

R3073

Part C

 $(5 \times 8 = 40)$

Answer all questions not more than 1000 words each.

16. (a) Outline the factors influencing fashion trends with examples. (CO1, K3)

Or

(b) Illustrate the difference between fad, classic, and avant- garde fashion with real-world examples.

(CO1, K3)

17. (a) Evaluate the importance of emphasis in a garment and how it affects the overall design. (CO2, K5)

Or

- (b) Analyze the elements of Design and their importance. (CO2, K4)
- 18. (a) Demonstrate how split complementary and triadic colours can be used in a fashion collection. (CO3, K3)

()r

- (b) Assess the impact of warm and cool colours on visual perception and clothing choices. (CO3, K4)
- 19. (a) Compare the design philosophies of any two famous fashion designers. (CO4, K4)

Or

- (b) Discuss about the international fashion designers. (CO4, K3)
- 20. (a) Develop a personal styling guide for professionals in the fashion industry. (CO5, K5)

Or

(b) Analyze the different boards used in portfolio development and their significance. (CO5, K4)

R3073

Sub. Code 304NM1

M.Voc. DEGREE EXAMINATION, APRIL - 2025

Software Development

NME: WEB DESIGNING

		(CB	CS – 2022	onwards)				
Time	e:3 F	Hours	Maxi	mum : 75 Marks				
			Part A	1	$(10 \times 1 = 10)$			
Answer all the following objective type questions by choosing the correct option.								
1.		netwo	ork can ser	ve an individ	ual consumer. (CO1, K1)			
	(a)	Private	(b)	Public				
	(c)	Physical	(d)	MAC				
2.	ISO	9000 was intr	oduced in -		(CO1, K1)			
	(a)	1978	(b)	1987				
	(c)	1981	(d)	1998				
3.	Wha	at was the nan	ne of the fin	rst network?	(CO2, K3)			
	(a)	ASAPNET	(b)	ARPANET				
	(c)	CNNET	(d)	NSFNET				
4.		can 1	transfer a	ny type of	data, including			
	docu	iments, image	s and musi	c.	(CO2, K3)			
	(a)	FTP	(b)	DNS				
	(c)	IMAP	(d)	POP				

5.	5. Which entity is not for both HTML and XML?					
	(a)	apos	(b)	It		
	(c)	cent	(d)	quot		
6.	Web	pages are writte	n in	·	(CO3, K4)	
	(a)	Hmtl	(b)	Css		
	(c)	Html	(d)	JavaScript		
7.		special	function	ns that create	and initialize	
	the	properties of new			(CO4, K4)	
	(a)	Constructor	(b)	Destructor		
	(c)	Arrays	(d)	Object		
8.	_	at is the observat ?? if (!a[i]) continu		le in the followi	ng JavaScript (CO4, K4)	
	(a)	Skips the define	ed elem	ents		
	(b)	Skips the existe	ent elem	nents		
	(c)	Skips the null e	element	s		
	(d)	both (a) and (b)				
9.	The	maximum width	of the	container for Ta	ablet screen is (CO5, K6)	
	(a)	750px	(b)	650px		
	(c)	850px	(d)	950px		
10.		ch of the followitstrap CSS?	_	not the default	style used in (CO5, K6)	
	(a)	Headings	(b)	Lists		
	(c)	Forms	(d)	Class		

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Describe about Recent trends of Multimedia.

(CO1,K2)

Or

(b) Why Networking seems difficult? Explain. (CO1,K2)

12. (a) Write a note on:

(CO2, K3)

(i) MIME (ii) RFC2822

Or

(b) Discuss about Domain Name System. (CO2, K3)

13. (a) Illustrate HTML Structure in detail. (CO3, K4)

Or

(b) Describe rowspan and colspan attributes in HTML Frame. (CO3, K4)

14. (a) Explain about: (CO4,K4)

(i) Math Object (ii) Number Object in JavaScript.

Or

(b) Difference between Implicit and Explicit type conversion. (CO4, K4)

15. (a) Describe about Emphasis classes. (CO5, K6)

Or

(b) Differentiate Bootstrap Grid variables and Grid mixins. (CO5, K6)

R3074

Part C

 $(5 \times 8 = 40)$

Answer all questions, not more than 1000 words each

16. (a) Discuss in detail about packet switching and networking technologies. (CO1, K2)

 O_{ν}

- (b) Write a detailed note on TCP/IP Internetworking. (CO1, K2)
- 17. (a) Illustrate FTP communication with neat sketch. (CO2, K3)

Or

- (b) How to transfer web documents with HTTP? Explain. (CO2, K3)
- 18. (a) Describe in detail about Forms and its attributes. (CO₃, K₄)

Or

- (b) Write a HTML code to create timetable. (CO3, K4)
- 19. (a) Explain the events that can be created using Textboxes and Passwords. (CO4, K5)

Or

- (b) Discuss about string properties and methods in JavaScript. (CO4, K5)
- 20. (a) Write a bootstrap program to create blog layout using Bootstrap mixins and variables. (CO5, K6)

Or

(b) How to implement Bootstrap Base CSS? Explain. (CO5, K6)

R3074

Sub. Code 311NM2

B.Sc. DEGREE EXAMINATION, APRIL - 2025

Catering Science and Hotel Management

NME: ADVANCED CATERING SERVICES

(CBCS – 2022 onwards)

		\	-	,	
Time : 3 Hours				Maximum	: 75 Marks
		I	Part A	A ($10 \times 1 = 10)$
	Ar	nswer all the follow by choosing	_	bjective type quest orrect option.	ions
1.	The	concept of Fast foo	od wa	s first introduced i	n (CO1, K1)
	(a)	UK	(b)	USA	
	(c)	USSR	(d)	Japan	
2.	IRC	TC offers ———		services for its pas	sengers. (CO1, K1)
	(a)	Ticket bookings	(b)	Hotels	
	(c)	Cab services	(d)	All the above	
3.	The	central kitchen in	cruise	e liners are known	as (CO2, K2)
	(a)	Live kitchen	(b)	Satelite kitchen	
	(c)	Galley	(d)	Cloud Kitchen	
4.		kind of n	nenu i	is prepared in carg	o vessels. (CO2, K2)
	(a)	fixed menu	(b)	static menu	
	(c)	a la carte menu	(d)	cyclic menu	

5.	Kitcl	hen in the hospitals	be ———— type. (CO3, K1)						
	(a)	Centralized	(b)	Decentralized					
	(c)	(a) only	(d)	Both (a) and (b)					
6.	The	food items provided	l at h	ospital catering are (CO3, K1)					
	(a)	Fibre diet	(b)	Protein diet					
	(c)	Low fat diet	(d)	All the above					
7.		ch one of the follo	wing	table plans is suitable for (CO3, K2)					
	(a)	Theatre style	(b)	Starfish style					
	(c)	Herring bone	(d)	Classroom style					
8.	The arra	area allowance	per	guest in theatre style (CO4, K1)					
	(a)	6'	(b)	8'					
	(c)	10'	(d)	12'					
9.	Band	quet means ———		-? (CO5, K1)					
	(a)	Welfare catering							
	(b)	Function catering							
	(c) Transport catering								
	(d) Institutional catering								
10.		small raised platfor without a mic is		either on a stage or on floor (CO5, K1)					
	(a)	Side board							
	(b)	Head Table							
	(c)	News Paper Stand	1						
	(d)	Podium							
			2	R3075					

Part B

 $(5 \times 5 = 25)$

Answer all the questions not more than 500 words each.

11. (a) Examine the operations of airline catering services. (CO1, K2)

Or

- (b) How does menu planning is carried out in railway catering sector? (CO1, K2)
- 12. (a) How does the menu is compiled in cruise line catering? (CO2, K1)

Or

- (b) What are the different types of food offered Palace on wheels? (CO2, K1)
- 13. (a) Illustrate the difficulties faced on a hospital catering. (CO3, K2)

Or

- (b) Why does the importance needs to be given for hospital menu planning? (CO3, K1)
- 14. (a) Discuss the recent trends on school meal services provided for students. (CO4, K4)

Or

- (b) Difference between: CSIR and ICAR in food research. (CO4, K2)
- 15. (a) How does the contract food preparation helps in outdoor catering? (CO5, K1)

Or

(b) What do you mean by miscellaneous forms of catering services? (CO5, K4)

R3075

Part C $(5 \times 8 = 40)$

Answer all questions not more than 1000 words each

16. (a) Explain importance of flight kitchen units and their food preparation. (CO1, K1)

Or

- (b) List out the characteristics of railway catering services. (CO1, K1)
- 17. (a) Outline the procedure for carrying out the service of snacks and beverages in cruise lines. (CO2, K2)

Or

- (b) What kind of menu is planned in cruise liners? Write with examples. (CO2, K2)
- 18. (a) List out the equipment commonly found in hospital kitchens. (CO3, K4)

Or

- (b) Prepare a detailed diet menu for a diabetic patient in a private hospital. (CO3, K5)
- 19. (a) Describe the importance of nutritive value in menu planning. (CO4, K6)

Or

- (b) Distinguish between: Menu planning in Institutional and Industrial Catering. (CO4, K6)
- 20. (a) Hospital diet food is the fastest way to cure. Justify the statement. (CO5, K2)

Or

(b) Explain the concept of speculative functions. Give examples. (CO5, K1)

R3075

Sub. Code 316NM1

B.A. DEGREE EXAMINATION, APRIL - 2025

Gender Studies

NME : WOMEN'S STUDIES FOR COMPETITIVE EXAMINATION

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Which legislation, passed in 1856, legalized widow remarriage in India? (CO1, K1)
 - (a) The Child Marriage Restraint Act
 - (b) The Widow Remarriage Act
 - (c) The Hindu Marriage Act
 - (d) The Dowry Prohibition Act
- 2. Who was the first Indian woman to become a physician and advocate for women's education in pre-independence India? (CO1, K1)
 - (a) Sarojini Naidu
 - (b) Rani Lakshmibai
 - (c) Anandi Gopal Joshi
 - (d) Kasturba Gandhi

3.		was the first woman from Tamilnadu to become a reme Court judge in India? (CO2, K1)
	(a)	Justice B. Sudha
	(b)	Justice R. Banumathi
	(c)	Justice M. Fathima Beevi
	(d)	Justice G. Rohini

- 4. Which Tamilnadu-born astronaut became the first woman of Indian origin in space? (CO2, K1)
 - (a) Sunita Williams
 - (b) Kalpana Chawla
 - (c) Tessy Thomas
 - (d) None of the above
- 5. Who is known as the "Iron Lady of Tamilnadu'? (CO3, K2)
 - (a) Rukmini Lakshmipathi
 - (b) Smt. Jayalalitha
 - (c) Muthulakshmi
 - (d) Janaki Ammal
- 6. Which dancer and reformer from Tamil Nadu was instrumental in reviving the traditional Indian dance form Bharatanatyam? (CO3, K1)
 - (a) Balasaraswati
 - (b) Yamini Krishnamurthy
 - (c) Rukmini Devi Arundale
 - (d) Mrinalini Sarabhai

R3076

- 7. Under which article of the Indian Constitution can the state make special provisions for women and children? (CO4, K2)
 - (a) Article 14
 - (b) Article 15(3)
 - (c) Article 16
 - (d) Article 19
- 8. Which legal provision in Tamilnadu provides for the reservation of seats for women in local bodies? (CO4, K1)
 - (a) Tamilnadu Panchayats Act
 - (b) To prohibit dowry practices
 - (c) Tamilnadu Reservation of Seats Act
 - (d) Tamilnadu Women's Empowerment Act
- 9. Which program in Tamilnadu aims to improve maternal and child health by providing free medical services to pregnant women and children? (CO5, K1)
 - (a) Amma Baby Care Kit Scheme
 - (b) Dr. Muthulakshmi Reddy Maternity Benefit Scheme
 - (c) Amma Maternity Nutrition Kit Scheme
 - (d) Amma Kudineer Thittam
- 10. What is the goal of the Tamilnadu Women Development Corporation? (CO3, K1)
 - (a) To provide housing loans to women
 - (b) To implement welfare schemes for women's economic development
 - (c) To offer free legal aid to women
 - (d) To ensure women's participation in sports

R3076

Part B

 $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Analyse the impact of education on status of women in India. (CO1, K4)

Or

- (b) Analyse the status of women in India pre and post-Independence. (CO1, K4)
- 12. (a) Discuss about the achievements of any one women of India. (CO2, K3)

Or

- (b) Write a short note on achievements of women in Tamilnadu. (CO2, K3)
- 13. (a) Discuss the impact of women reformers in India (CO3, K3)

Or

- (b) Discuss about any one of women reformer. (CO3, K3)
- 14. (a) What are the Constitutional provisions for Women in India? Explain. (CO4, K3)

Or

- (b) Write a short note on the legal rights for Women in India. (CO4, K4)
- 15. (a) Explain any one policy for Women in India. (CO5, K3)

Or

(b) Analyse the programmes for Women in Tamilnadu. (CO5, K4)

R3076

Part C $(5 \times 8 = 40)$

Answer all questions not more than 1000 words each.

16. (a) Examine the factors affecting the status of women in India. (CO1, K4)

Or

- (b) Write a short note on status of women in contemporary society. (CO1, K3)
- 17. (a) Write about any two women achievers in Tamilnadu (CO2, K3)

Or

- (b) Discuss the impact of women achiever in India (CO2, K3)
- 18. (a) Examine the impact of women reformers in India. (CO3, K4)

Or

- (b) Write about any two social women reformers in India. (CO3, K3)
- 19. (a) Explain the constitutional provision for women at work. (CO4, K3)

Or

(b) Briefly explain the legal rights of women on property. (CO4, K3)

R3076

20. (a) Write a short note on the programmes for women/girls education in Tamilnadu. (CO5, K3)

Or

(b) Explain the programmes in India for women empowerment. (CO5, K3)

Sub. Code 411NM1

M.A. DEGREE EXAMINATION, APRIL - 2025

Tamil

NME : நாட்டுப்புறவியல் (Folklore)

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

பகுதி அ $(10 \times 1 = 10)$

அனைத்து வினாக்களுக்கும் சரியான விடையை தேர்ந்தெடுத்து எழுதுக.

- 1. 'தமிழ் நாட்டுப் பழங்கதைகள்' எனும் நூலின் ஆசிரியர் (CO1, K1)
 - (அ) கா. அப்பாதுரை (ஆ) சு.அ. இராமசாமிப் புலவர்
 - (இ) கு. சின்னப்ப பாரதி (ஈ) வை. கோவிந்தன்
- 2. 'நாட்டுப்புறக் கதைகளின் உள்ளமைப்பு' எனும் நூலை வெளியிட்டவர் $({
 m CO1,\,K1})$
 - (அ) ரோஸ்லெட் டேனிபாய்
 - (ஆ) விளாதிமிர் பிராப்
 - (இ) ஆலன் டண்ட்ஸ்
 - (ஈ) ஸ்டீபென்
- 3. 'Popular antiquities' என்ற இலத்தீன் சொல்லுக்கு மாற்றாக 'Folklore' என்ற ஆங்கிலத் தொடரை உருவாக்கியவர் (CO2, K1)
 - (அ) வில்லியம் ஜான் தாமஸ்
 - (ஆ) தே. லூர்து
 - (இ) நா. வானமாமலை
 - (ஈ) அ. பிச்சை

4.		lore க்கு டுப்புறவியல்" படுத்தியவர்		ாயான லைச்		சொல்லாக முதன்முதலில் (CO2, K1)
	(அ)	சு.சண்முக சுந்த	நரம்			
	(ஆ)	அ.மு. பரமசிவ	பானந்தம்			
	(இ)	நா. வானமாம	തെ			
	(FF)	செ. அன்னகா	ம்			
5.	'தமிழ	தகப் பழமொழிக	கள்' எனும்	் நூலி	ன் ஆசிரியர்	(CO1, K1)
	(அ)	கே.என். லெட்	சுமணன்			
	(ஆ)	எஸ். வேணுகே	காபால் நா	тщြ		
	(Q)	க. கருப்பண்ண	ா பிள்ளை			
	(FF)	தி. செல்வ கே	சவராய மு	pதலிய	тп	
6.	'நாட்(டுப்புறவியலின்	தந்தை' எ	гன அெ	றழக்கப்படுப	வர் (CO4, K4)
		ஜேக்கப் கிரீம்			் க்ஸ் முல்லர்	
	(இ)	கி.வா. ஜகந்நா	தன் (ஈ) ஆ	று அழகப்பல்	ज
7.	நாடச பெற்!	நத் துறையில் றவர்	தமிழக	அரசிட	_ம் கலைம	ாமணி விருது (CO4, K4)
	(அ)	ஆறு. அழகப்ப	பன் (ஆ	யூ) நா	ா. வானமாம	തെ
	(இ)	கி.வா. ஜகந்நா	தன் (ஈ) சு.	சண்முக சுந்த	ரம்
8.	'പൻഉ	மாழி நானூறு'	எனும் நூ	லின் ஆ	_ச ிரியர்	(CO4, K4)
	(괵)	முன்றுறையறை	ரயனார்			
	(ஆ)	அமிர்தசாகரர்				
	(()	காரியாசான்				
	(FF)	கபிலர்				
9.		எமுதலில் தமிழ் ாபடி வெளியிட்		மாழிக	ளைத் தொ	தத்து உள்ளது (CO1, K1)
	(அ)	ஜேக்கப் கிரீம்	(_	ஆ) பீட்	டர் பெர்சிவ	ல்
	(இ)	மாக்ஸ் முல்லர்	· (FF) ഖി	ல்லியம் ஜான்	ர தாமஸ்
						D2077
			2			R3077

		3	R3077		
	(굇)	நாட்டுப்புற நம்பிக்கைகள் குறித்து விளம்புக. -	(CO4, K2)		
		(அல்லது)			
15.	(의)	கைவினைப் பொருட்கள் பற்றி எழுதுக.	(CO4, K1)		
	(ஆ)	ஒயிலாட்டம் குறிப்பு வரைக.	(CO3, K2)		
(அல்லது)					
14.	(의)	தேவராட்டம் குறித்துப் பகர்க.	(CO3, K4)		
	(ஆ)	குழந்தைப் பாடல்கள் குறித்து இயம்புக.	(CO2, K4)		
(அல்லது)					
13.	(의)	தாலாட்டுப் பாடல்கள் விளம்புக.	(CO2, K4)		
	(ஆ)	கொண்டாட்டப் பாடல்கள் பற்றிப் பகர்க.	(CO2, K2)		
		(அல்லது)			
12.	(의)	ஒப்பாரிப் பாடல்கள் குறித்து இயம்புக.	(CO2, K1)		
	(ஆ)	வேளாண்மைப் பழமொழிகள் குறித்துப் பகர்	rs. (CO5, K1)		
		(அல்லது)			
11.	(의)	'பழமொழியும் மரபுத் தொடரும்' - விளம்புக	. (CO5, K1)		
	அஎ	னத்து வினாக்களுக்கும் 500 சொற்களுக்கு மி விடையளிக்கவும்.	காமல்		
		பகுதி ஆ	$(5 \times 5 = 25)$		
	((கும்மிப் பாட்டு (ஈ) சுத்திப் பாட்டு			
	(괵)	நாட்டுப்பாட்டு (ஆ) காட்டுப் பாட்டு			
10.	•	· மாவட்டங்களில் மக்கள் வேளாண் தொழி பாறு அழைக்கின்றனர் ?	lற்பாடல்களை (CO1, K1)		

அனைத்து வினாக்களுக்கும் 1000 சொற்களுக்கு மிகாமல் விடையளிக்கவும்.

16. (அ) நாட்டுப்புறக் கூத்து வகைகளைக் கட்டுரை வரைக. (${
m CO3,\,K1}$)

(அல்லது)

- (ஆ) நாட்டுப்புறக் கலைகளை விரித்துரைக்க. (CO3, K2)
- 17. (அ) 'நாட்டுப்புறப் பாடல்' வகைகளை விவரிக்க. (CO4, K1)

(அல்லது)

- (ஆ) இறப்புச் சடங்குப் பாடல்களைத் தொகுத்துரைக்க. (CO4, K2)
- 18. (அ) 'நாட்டுப்புறக் கதைகள்' கட்டுரைக்க. (CO2, K4)

(அல்லது)

- (ஆ) நாட்டுப்புற நாடகங்கள் விரித்துரைக்க. (CO2, K4)
- 19. $(ag{9})$ விளையாட்டுகள் கட்டுரை வரைக. $(ext{CO4}, ext{K4})$

(அல்லது)

- (ஆ) நாட்டுப்புற மரபுகள் குறித்து விரித்துரைக்க. (CO4, K4)
- 20. (அ) 'நாட்டுப்புற மருத்துவம்' குறித்து கட்டுரை வரைக. (${
 m CO5,\,K1}$)

(அல்லது)

(ஆ) நாட்டுப்புற விழாக்கள் குறித்துத் தொகுத்துரைக்க. (CO5, K2)

R3077

Sub. Code 414NM1

M.A. DEGREE EXAMINATION, APRIL - 2025

Theatre and Film Studies

NME: STREET THEATRE

(CBCS – 2022 onwards)

		(CBCS -	2022	onwaras)	
Time : 3 Hours			Maximum: 75 Marks		
	Pa			($(10 \times 1 = 10)$
	Answe	er all the following the co	-	tive questions by coption.	choosing
1.	Thr	ust stage often refe	re often refers to		(CO1, K2)
	(a)	Closed	(b)	Open	
	(c)	Round	(d)	Intimate	
2.	Areı	Arena theatre means			(CO1, K2)
	(a)	Round	(b)	Open	
	(c)	Closed	(d)	No spot	
3.	Parc	Parody rock songs was written by		en by	(CO2, K2)
	(a)	Ilyan Mass	(b)	Boris Vian	
	(c)	Jazz player	(d)	Boris Sam	
4.	Jana	Jana natya Manch was founded by			
	(a)	Safdar Hashmi	(b)	Badal Sarkar	
	(c)	Girish Karnad	(d)	Vijay Tendulkar	

5.	Unp	lanned performanc	e is u	sually	_ (CO3, K2)
	(a)	Authentic			
	(b)	Improved			
	(c)	Stage performanc	e		
	(d)	Mime			
_	, ,				(00 - 77))
6.		kad Natak means _			(CO3, K4)
	(a)	Street plays		Mime plays	
	(c)	Mask plays	(d)	State Plays	
7.	One	of the new technol	ogy i	n street theatre i	.s
	()	Q 1 4	<i>(</i> 1.)	oD D : 4:	(CO4, K4)
	(a)	Sound system	(b)	_	
	(c)	Amphi theatre	(d)	Noh Theatre	
8.	Bim	Mason wrote book	on		(CO4, K4)
	(a)	Thrust theatre	(b)	Street theatre	
	(c)	Amphi theatre	(d)	Noh theatre	
9.	Terr	ukuthu belongs to			(CO5, K6)
	(a)	Karnataka	(b)	Tamil-Nadu	
	(c)	Kerala	(d)	North-India	
10.	In Punjab street plays are called		(CO5, K6)		
	(a)	Nautanki	(b)	Bhas	
	(c)	Rahs	(d)	Budhi Nataka	
	Part B			$(5 \times 5 = 25)$	
A	nswe	r all the questions	not n	nore than 500 wo	rds each.
11	(a) Explain the changing attitude towards street				
11.	(a)	theatre.	angin	ig attitude tow	(CO1, K2)
	Or				
	(b) Outline the historical context of street theatre. (CO1, K2)				
			2		R3078

12. (a) Classify the props and sets used in street theatre. (CO2, K2) Or (b) Express, how audience are controlled in street theatre. (CO2, K2)13. Explain the concept of group coordination in street (a) theatre performance. (CO3, K4) Or (b) Summarize on the women performers of street theatre. (CO3, K4) 14. (a) Elaborate on the economic situation in street theatre. (CO4, K6) Or (b) Formulate the role of public reaction in a (CO4, K4) performance. 15. (a) Elaborate the concept of beyond theatre. (CO5, K6) Or(b) Discuss on the space in street theatre. (CO5, K6) Part C $(5 \times 8 = 40)$ Answer all the questions not more than 1000 words each. Explain the situation of performing artists of street 16. (a) theatre. (CO1, K2) Or (b) Summarise the origin and development of street theatre in India. (CO1, K2) R3078 3

17. (a) Elaborate on the properties and set used in street theatre. (CO2, K2)

Or

- (b) Compare small scale and large scale groups in street theatre. (CO2, K2)
- 18. (a) Illustrate on the street theatre festivals. (CO3, K2)

Or

- (b) Explain the blending and contrasting with the environment of street theatre (CO3, K2)
- 19. (a) Illustrate with references on street theatre performers and their performance. (CO4, K4)

Or

- (b) Explain the financial challenges faced by street theatre. (CO4, K4)
- 20. (a) Elaborate on the role of new technologies in street theatre. (CO5, K6)

Or

(b) As an audience, discuss on any one street theatre performance. (CO5, K6)

Sub. Code 415NM1

M.A. DEGREE EXAMINATION, APRIL - 2025

History

NME : GENERAL STUDIES FOR COMPETITIVE EXAMINATION

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Which city was the largest urban center of the Indus Valley civilization? (CO1, K1)
 - (a) Mohenjo-Daro (b) Harappa
 - (c) Chanhu-Daro (d) Lathal
- 2. Which of the following was a characteristic feature of the Mahojanapadas? (CO1, K1)
 - (a) Tribal System
 - (b) Monarchical System
 - (c) Republican System
 - (d) Federal System

3.	Who was the Delhi Sultan who introduced the taken currency system? (CO2, K1)			
	(a)	Illtutmish		
	(b)	Balban		
	(c)	Alauddin Khalji		
	(d)	Muhammad bin Tughlaq		
4.		t was the name of the treaty signed in 175 Mughal Empire and the East India Compar		
	(a)	Treaty of Allahaad		
	(b)	Treaty of Surat		
	(c)	Treaty of Bengal		
	(d)	Treaty of Abgarh		
5.	Who	led the Indigo Rebellion in Bengal in 1859-	–1860? (CO3, K1)	
	(a)	Dinabandhu Mitra		
	(b)	Bankim Chandra Chattopadhyay		
	(c)	Rabindranath Tagore		
	(d)	Mahatma Gandhi		
6.	Wha	t was the main slogan of the Quib India Mo	ovement? (CO4, K1)	
	(a)	"Quit India"		
	(b)	"Leave India"		
	(c)	"India for Indian"		
	(d)	"Freedom Now"		
		2	R3079	

7.	What was the main objective of the Indian National Congress? (CO4, K1)					
	(a)	To overthrow the British government				
	(b)	To promote Indian culture and heritage				
	(c)	To secure greater autonomy for India				
	(d)	To promote economic development in India				
8.		ch of the following was a key feature of the Santal rebellion? (CO3, K1)				
	(a)	Armed straggle against British forces				
	(b)	Non-violent protests and demon stations				
	(c)	Boycott of British goods and services				
	(d)	All the above				
9.		ch article of the Indian Constitution guarantees the at to freedom of speech and expression? (CO5, K1)				
	(a)	Article 14 (b) Article 19				
	(c)	Article 21 (d) Article 25				
10.	What is the name of the committee that dratted the Indian Constitution? (CO5, K1)					
	(a)	Constituent Assembly				
	(b) Drafting Committee					
	(c) Advisory Committee					
	(d)	Steering Committee				
		3 R3079				

Part B

 $(5 \times 5 = 25)$

Answer all the questions not more than 500 words each.

11. (a) Examine the economic system of the Vedic Period. (CO1, K4)

Or

- (b) Simplify the cultural achievements of the Gupta period. (CO1, K4)
- 12. (a) Classify the significance of the Kushana Empire in the spread of Buddhism. (CO1, K4)

Or

- (b) Distinguish between the significance of the Vedas in Aryan Society. (CO1, K4)
- 13. (a) Examine the significance of the Malwa Sultanate rater, Muhamud Khalji. (CO2, K5)

Or

- (b) Describe the characteristics of the Paleolithic age in India. (CO1, K4)
- 14. (a) Describe the causes of the Mopla Rebellion in Malabar. (CO3, K2)

Or

(b) Describe the significance of the Deccan Rebellion in Indian History. (CO3, K2)

R3079

preamble. (CO5, K2) OrExplain the significance of the Directive principles (b) of state policy in the Indian constitution. (CO5, K2) Part C $(5 \times 8 = 40)$ Answer all the questions not more than 1,000 words each. 16. (a) Describe the characteristics of the Mesolithic culture in India. (CO1, K4) Or administrative (b) Explain the system of the Vijayanagara Empire. (CO2, K5) 17. Explain the causes of the Kol Rebellion of (a) 1831-1832. (CO3, K2) OrEvaluate the main objectives of the Moderate group (b) in the Indian National Congress. (CO4, K5) Describe the role of Bal Gangadhar Tilak in the 18. (a) Extremist Movment. (CO4, K5) Or Explain the reasons for the boycott of the Simon (b) Commission by Indian leaders. (CO4, K5) 19. Explain the salient features of the Constitution. (a) (CO5, K2) Or (b) Explain the Directive principles of state policy. (CO5, K2) R3079 5

Examine the concept of "We the people" in the

15.

(a)

20. (a) Evaluate the main causes of the Civil Disobedience Movement in India. (CO4, K5)

Or

(b) Justify the role of Mahatma Gandhi in the Non-Co-operation Movement. (CO4, K5)

Sub. Code 452NM1

M.S.W. DEGREE EXAMINATION, APRIL – 2025

Social Work

NME: SOCIAL ENTREPRENEURSHIP

(CBCS – 2022 onwards)

		(CBCS – 2022 onwa	ras)
Tim	e:3 F	Iours	Maximum : 75 Marks
		Part A	$(10 \times 1 = 10)$
Aı	nswer	all the following objective que correct option.	stions by choosing the
1.	to fi	is the attempt to draw up nd solutions to social problems	_
	(a)	social entrepreneurship	
	(b)	business entrepreneurship	
	(c)	entrepreneurship	
	(d)	social policy	
2.	vari envi	drive social innovation ous fields including edu ronment and enterprise develo	ication health, and
	(a)	social entrepreneurs	
	(b)	businessman	
	(c)	social workers	
	(d)	social reformers	

3.	What is the primary focus of social entrepreneurship? (CO2, K2)				
	(a)	Maximizing shareholder profits			
	(b)	Creating positive social impact			
	(c)	Minimizing competition			
	(d)	Expanding market share			
4.		ch characteristic is typically associated with social epreneurs? (CO2, K4)			
	(a)	Sole focus on financial gains			
	(b)	Risk-averse behavior			
	(c)	Innovation for social change			
	(d)	Emphasis on traditional business models			
5.	What role does government policy play in supporti women entrepreneurship? (CO3, K				
	(a)	Irrelevant to business success			
	(b)	Can provide funding, training, and incentives			
	(c)	Creates unnecessary bureaucracy			
	(d)	Discourages women from starting businesses			
6. Which factor is often cited as a challenge for ventrepreneurs in accessing funding for their busing (CC)					
	(a)	Lack of interest in entrepreneurship			
	(b)	Limited educational qualifications			
	(c)	Gender bias and discrimination			
	(d) Overemphasis on family responsibilities				
		2 R3080			

- 7. What is a common characteristic of small enterprises? (CO4, K2)
 - (a) Extensive bureaucratic structures
 - (b) Limited employee count and revenue
 - (c) Global market dominance
 - (d) Exclusive focus on short-term goals
- 8. How does innovation contribute to the success of small enterprises? (CO4, K2)
 - (a) By hindering adaptability
 - (b) By increasing operational costs
 - (c) By fostering competitiveness and growth
 - (d) By discouraging employee creativity
- 9. Which financial institution in India provides credit support and development assistance to startups and small businesses? (CO5, K4)
 - (a) State Bank of India (SBI)
 - (b) Reserve Bank of India (RBI)
 - (c) Small Industries Development Bank of India (SIDBI)
 - (d) National Bank for Agriculture and Rural Development (NABARD)
- 10. The National Small Industries Corporation (NSIC) facilitates the growth of small businesses by providing what type of support? (CO5, K6)
 - (a) Financial assistance
 - (b) Export promotion
 - (c) Market research
 - (d) Technological innovation

R3080

Part B

 $(5 \times 5 = 25)$

Answer all the questions not more than 500 words each.

11. (a) Illustrate the characteristics of Social Entrepreneurship. (CO1, K1)

Or

- (b) Write note on determinants of Entrepreneurial success. (CO1, K1)
- 12. (a) How would you infer the factors influencing the Entrepreneurial group? (CO2, K2)

Or

- (b) Estimate the role of NGOS in promoting intervention in Entrepreneurship. (CO2, K2)
- 13. (a) Explain the Challenges and barriers faced by Women Entrepreneurs. (CO3, K3)

Or

- (b) Sketch the initiatives for Women Social Entrepreneurship. (CO3, K3)
- 14. (a) How would you identify the business opportunity for setting up a Small business Enterprise? (CO4, K4)

Or

(b) How would you appraise the importance of marketing in small business Enterprises? (CO4, K3)

R3080

15. (a) Collaborate your thoughts about the functions of SIDBI. (CO4, K4) Or Write (b) a NSIC Social note in promoting Entrepreneurship. (CO5, K5) Part C $(5 \times 8 = 40)$

Answer all the questions not more than 1,000 words each.

16. (a) Discuss in detail the historical Development of Social Entrepreneurship. (CO1, K1)

Or

- (b) How can social entrepreneurship be leveraged to address environmental challenges? (CO1, K2)
- 17. (a) Evaluate the role of collaboration and partnerships in advancing social entrepreneurship. (CO2, K4)

Or

- (b) Classify steps involved in developing the Entrepreneurship Plan. (CO2, K3)
- 18. (a) Relate the significance of Women Entrepreneurship, and why is it considered an essential component of economic development. (CO3, K3)

Or

(b) Discuss the potential benefits and risks of scaling up a successful social enterprise. (CO3, K3)

R3080

19. (a) Distinguish the scope of Micro Entreprise Development. (CO4, K4)

Or

(b) How would evaluate the scope of Financial Management in Small Business Enterprises? (CO4, K4)

20. (a) Connect the role of NSIC in promoting Social Entrepreneurship. (CO5, K5)

Or

(b) Justify the functions of State Trade corporation of India. (CO5, K5)

Sub. Code 455NM1

M.A. DEGREE EXAMINATION, APRIL - 2025

Economics

NME : ECONOMIC FOR COMPETITIVE EXAMINATIONS

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. National income estimates in India is prepared by ______. (CO1, K1)
 - (a) Planning Commission
 - (b) RBI
 - (c) Finance Ministry
 - (d) C.S.O
- 2. Population density means ———. (CO1, K1)
 - (a) No. of persons living per s.q.km
 - (b) No. of persons living peer kilometer
 - (c) Ratio of population living below poverty line to total poverty
 - (d) No. of persons in a village
- 3. What is the main objective of India's economic planning?

(CO2, K2)

- (a) Industrialization
- (b) Eradication of poverty
- (c) Self-reliance
- (d) All of the above

		omic reforms?			(CO2, K2)		
	(a)		(b)	Privatization	(==, ===)		
	(c)		(d)	Globalization			
5.	Whi distriction (a) (c)	ch agency is ribution, and stora NABARD NITI Aayog	_	oonsible for Good grains in In FCI ICAR	procurement, dia?(CO3, K1)		
6.		ch State is known s prominent IT ind Maharashtra		?	of India's due (CO3, K2)		
	(c)	Karnataka	(d)	Andhra Prade	sh		
7.	Wha (a) (b) (c) (d)	at does CRR stand Cash Reserve Ra Credit Reserve F Current Reserve Capital Reserve	itio Ratio Ratio	banking terms?	(C04, K1)		
8.	Whi	Which of the following is an instrument of fiscal policy?					
			•		(CO4, K2)		
	(a)	Open market op	eration	ı			
	(b)	Government spe	nding				
	(c)	Bank Rate					
	(d)	Repo Rate					
9.		at organization in publishing the ba		_	for compiling (CO5, K1)		
	(a)	Ministry of Fina	nce				
	(b)	Ministry of comr	nerce a	and Industry			
	(c)	RBI					
	(d)	NITI Aayog					
10.	Whi	ch of the following	is not	a member of SA	AARC?		
					(CO5, K1)		
	(a)	Nepal	(b)	Pakistan			
	(c)	Bangladesh	(d)	Myanmar			
			2		R3081		
			4				

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Describe the role of agriculture in India's national income. (CO1, K3)

Or

(b) Write a short note on demographic transition.

(CO1, K2)

12. (a) Briefly state the long – term objectives of planning in India. (CO2, K2)

Or

- (b) Explain the impact of privatization on the Indian economy post -1991. (CO2, K4)
- 13. (a) Illustrate the importance of the Auto-Mobile industry in Tamil Nadu. (CO3, K2)

Or

- (b) Interpret the industrial policy -1991. (CO3, K2)
- 14. (a) Discuss briefly about history of Indian banking system. (CO4, K1)

Or

- (b) Prepare a note on VAT and GST. (CO4, K2)
- 15. (a) What are the major challenges faced by Indian exporters in the global market? (CO5, K4)

Or

(b) Give the brief history of SAARC. (CO5, K1)

R3081

Part C $(5 \times 8 = 40)$

Answer all questions not more than 1000 words each.

16. (a) Analyze the difficulties in the calculation of national income in India. (CO1, K4)

Or

- (b) Examine the trends in India's GDP growth over the past decade. (CO1, K4)
- 17. (a) Elucidate the types of economic planning in India. (CO₂, K₂)

Or

- (b) Critically evaluate the impact of the new economic policy on India's economic development. (CO2, K5)
- 18. (a) Apprise the impact of new economic policy on Indian agricultural sector. (CO3, K2)

Or

- (b) Give a critical account of the industrial development under five-year plans. (CO3, K2)
- 19. (a) Explain the functions of RBI. (CO4, K3)

Or

- (b) Explain the role of commercial banks in the Indian economy. (CO4, K3)
- 20. (a) Discuss the significance of foreign trade in the Indian economy. (CO5, K2)

Or

(b) Assess the impact of exchange rate fluctuations on India's balance of payments. (CO5, K5)

R3081

Sub. Code 464NM1

M.Sc. DEGREE EXAMINATION, APRIL – 2025 Applied Geology

NME — DISASTER MANAGEMENT AND MITIGATION

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

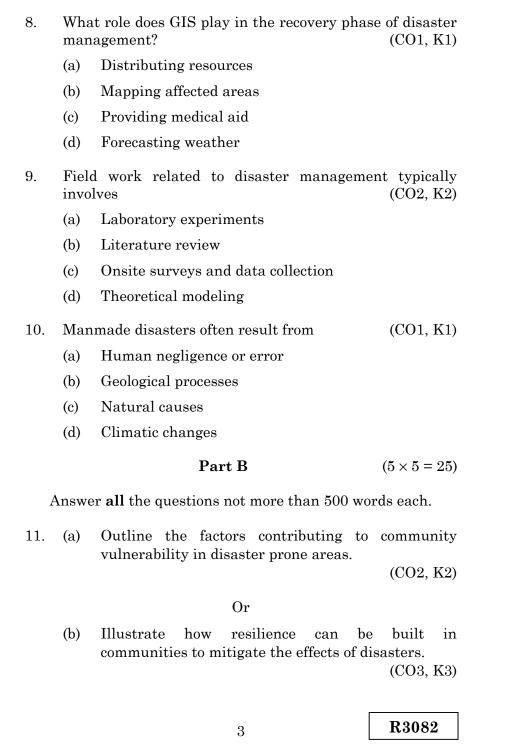
Answer **all** the following objective type questions by choosing the correct option.

- 1. Which type of disaster is characterized by a prolonged period of abnormally low rainfall? (CO2, K2)
 - (a) Flood
- (b) Earthquake
- (c) Landslide
- (d) Drought
- 2. Which term refers to the ability of a community to withstand and recover from disasters? (CO2, K2)
 - (a) Resilience
- (b) Vulnerability
- (c) Hazard
- (d) Risk
- 3. Which of the following is a key component of community-based Disaster Risk Reduction (DRR)?

(CO1, K1)

- (a) Community involvement
- (b) Individual preparedness
- (c) Private sector engagement
- (d) Government intervention

	(c)	International coordination	
	(d)	Policy making	
5.		ch scenario is most likely to result fronges in land-use?	om extensive (CO1, K1)
	(a)	Improved air quality	
	(b)	Greater environmental degradation	
	(c)	Increased wildlife habitats	
	(d)	Enhanced agricultural productivity	
6.	_	is local resource utilization importange adaptation?	t in climate (CO2, K2)
	(a)	It is time-consuming and inefficient	
	(b)	It leads to increased costs	
	(c)	It ensures sustainability and relevance	
	(d)	It increases dependency on foreign tech	nology
7.		ch component involves providing tempo fected individuals?	rary housing (CO1, K1)
	(a)	Waste Management	
	(b)	Food	
	(c)	Health	
	(d)	Shelter	
		2	R3082



12. (a) Justify the involvement of the central government in community-based Disaster Risk Reduction efforts and its impact on disaster preparedness. (CO3, K4)

Or

- (b) Explain how community participation can enhance the effectiveness of disaster mitigation strategies in rural areas. (CO5, K5)
- 13. (a) Assess the impact of development projects such as dams on local ecosystems. (CO6, K6)

Or

(b) Evaluate the relevance of indigenous knowledge in developing climate change adaptation strategies.

(CO5, K5)

14. (a) Interpret the significance of GIS in disaster preparedness. (CO4, K4)

Or

- (b) Evaluate the role of information technology in the response phase of disaster management. (CO4, K4)
- 15. (a) Compare fluvial flooding and pluvial flooding in terms of their causes and impacts. (CO2, K3)

Or

(b) Interpret the significance of structural assessments in Earthquake Vulnerability Assessment. (CO4, K4)

R3082

Part C

 $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Discuss the political and psychosocial impacts of large scale disasters on affected populations.

(CO3, K3)

Or

- (b) Relate the concept of risk to the various types of natural disasters and provide examples. (CO5, K5)
- 17. (a) Determine the challenges faced by local communities in implementing disaster prevention and preparedness measures. (CO4, K4)

Or

- (b) Prioritize the steps that communities should take to prepare for natural disasters, considering the roles of various stakeholders. (CO4, K4)
- 18. (a) Assess the potential impacts of climate change adaptation scenarios in the context of India.

(CO5, K5)

Or

- (b) Interpret the role of appropriate technology in enhancing climate change adaptation efforts in India. (CO3, K3)
- 19. (a) Assess the impact of effective waste management on public health during disaster relief operations.

(CO3, K3)

Or

(b) Justify the need for comprehensive disaster damage assessment in the recovery phase. (CO3, K3)

R3082

20. (a) Distinguish between various types of man-made disasters and analyze their long-term effects on human infrastructure and the environment.

(CO3, K3)

Or

(b) Evaluate the impact of drought on agricultural practices, citing relevant case studies for assessment methods. (CO4, K4)

Sub. Code 502NM1

M.Sc. DEGREE EXAMINATION, APRIL - 2025

Bioinformatics

NME - MOLECULAR MODELING AND DRUG DESIGN

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Which approach is commonly used during target identification? (CO1, K2)
 - (a) Knockdown or over expression of target genes
 - (b) High-throughput screening of compounds
 - (c) Clinical trials on large patient groups
 - (d) In vivo toxicity testing only
- 2. Which phase involves testing the drug on large groups of patients to confirm its efficacy? (CO1, K1)
 - (a) Phase 1 clinical trial
 - (b) Phase 2 clinical trial
 - (c) Phase 3 clinical trial
 - (d) Pre-clinical phase

3. Hybrid QM/MM methods are used because they allow:

(CO2, K2)

- (a) Simultaneous simulation of large systems with detailed quantum calculations for specific regions
- (b) Faster computation by ignoring quantum effects entirely
- (c) Modeling of only non-bonded interactions in molecules
- (d) Simplification of all molecular systems into classical mechanics models
- 4. What is the primary role of force fields in molecular mechanics? (CO2, K1)
 - (a) To calculate the quantum states of molecules directly
 - (b) To define potential energy functions based on bonded and non-bonded interactions
 - (c) To simulate chemical reactions at the atomic level using wave functions
 - (d) To determine the temperature and pressure of a system experimentally
- 5. What does a Ramachandran Plot primarily show?

(CO3, K2)

- (a) The secondary structure of a protein
- (b) The tertiary structure of a protein
- (c) The allowed conformations of amino acid residues in a protein
- (d) The sequence similarity between proteins

R3083

- 6. What is the purpose of geometry optimization in protein structure prediction? (CO3, K2)
 - (a) To refine the overall structure by minimizing energy
 - (b) To predict secondary structures
 - (c) To predict tertiary structures
 - (d) To visualize protein structures
- 7. What does QSAR modeling aim to achieve? (CO4, K2)
 - (a) Predicting the biological activity of compounds based on their chemical structure
 - (b) Synthesizing new drugs from scratch
 - (c) Visualizing protein-ligand interactions
 - (d) Identifying pharmacophores based on receptor structures
- 8. Which statement best describes molecular descriptors? (CO4, K1)
 - (a) They are numerical values that describe the properties or characteristics of molecules
 - (b) They are graphical representations of molecular structures
 - (c) They are methods used for synthesizing new drugs
 - (d) They are specific types of pharmacophores
- 9. What is a key characteristic of drug-like molecules according to Lipinski's Rule of Five? (CO5, K2)
 - (a) High molecular weight and low lipophilicity
 - (b) Low molecular weight and high lipophilicity
 - (c) High molecular weight and high lipophilicity
 - (d) Low molecular weight and low lipophilicity

R3083

	(a)	Competitive inhibition					
	(b)	Uncompetitive inhibition					
	(c)	Non-competitive inhibition					
	(d)	Irreversible inhibition					
		Part B $(5 \times 5 = 25)$					
A	Answe	r all the questions not more than 500 words each.					
11.	(a)	Describe the different methods of lead optimization. (CO1, K2)					
		Or					
	(b)	Write a brief note on the significance of Pharmacophore Modelling in drug discovery. (CO1, K4)					
12.	(a)	Explain how potential energy surfaces influence the interaction of molecules in MM. (CO2, K5) Or					
	(b)	What is energy minimization and explain the different methods employed. (CO2, K3)					
13.	(a)	Briefly describe the Geometry optimization procedure using Density Functional theory.(CO3, K3) Or					
	(b)	Explain the importance of structure validation tools and give examples. (CO3, K4)					
14.	(a)	Explain how molecular descriptors help in QSAR analysis. (CO4, K5)					
		Or					
	(b)	Describe the advantages of High throughput virtual screening in molecular docking. (CO4, K3)					
		4 R3083					

What type of enzyme inhibition involves the inhibitor binding only to the enzyme-substrate complex? (CO5, K1)

10.

15. (a) Explain the chemistry of ADME and toxicity properties for drug molecules. (CO5, K3)

Or

(b) Write a note on Receptor theories and drug-receptor interactions. (CO5, K2)

Answer all the questions not more than 1000 words each.

Part C

16. (a) Explain the different ways of target identification and validation. (CO1, K3)

Or

- (b) Describe in detail, the various Phases of drug discovery process. (CO1, K4)
- 17. (a) Discuss the general features of molecular mechanics force fields and its applications. (CO2, K3)

Or

(b) Describe in detail, the various bonds and bond angles that are involved in molecular modelling. (CO2, K2)

18. (a) Explain the algorithms used in the protein Secondary structure prediction. (CO3, K3)

Or

- (b) Describe in detail, the steps involved in homology modeling and *ab-initio* modeling. (CO3, K5)
- 19. (a) Explain the different approaches of pharmacophore identification and mapping in drug design.

(CO4, K5)

 $(5 \times 8 = 40)$

Or

(b) Elaborate the methodology involved in De-novo ligand design and 3D database searching for molecular docking. (CO4, K3)

R3083

20. (a) Discuss in detail, the different phases and sites of Drug metabolism with the reactions involved.

(CO5, K3)

Or

(b) Explain the various theories of enzyme inhibition and inactivation, its application in drug discovery.

(CO5, K4)

Sub. Code 24MBM2N1

M.Sc. DEGREE EXAMINATION, APRIL - 2025

Biomedical Science

NME -LIFESTYLE DISEASES AND MANAGEMENT

(CBCS - 2024 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. What is the primary characteristic of lifestyle diseases? (CO1, K2)
 - (a) Communicable through contact
 - (b) Long latency period
 - (c) Caused by viruses
 - (d) Only affects elderly people
- 2. What is the main feature of metabolic syndrome? (CO2, K3)
 - (a) Low blood sugar
 - (b) Central obesity
 - (c) High physical activity
 - (d) Overproduction of insulin

3.	ich disease is characterized by progressive airflow cruction? (CO2, K3)	
	(a)	Asthma
	(b)	COPD
	(c)	Lung cancer
	(d)	Hypertension
4.	Whi	ich of these is a superfood? (CO3, K4)
	(a)	White rice (b) Blueberries
	(c)	Processed meat (d) French fries
5.		ich condition is characterized by reduced bone sity? (CO4, K4)
	(a)	Arthritis (b) Osteoporosis
	(c)	PCOS (d) Obesity
6.	Cer	vical cancer is most commonly linked to (CO4, K4)
	(a)	HPV infection (b) Obesity
	(c)	Smoking (d) Stress
7.	Pub	lic health campaign are most effective when (CO5, K5)
	(a)	Focused on individual behavior change
	(b)	Ignored by media
	(c)	Supported by community engagement
	(d)	Targeted at specific age groups only
8.	Whi	ich type of diet is most effective in reducing diovascular disease risk? (CO3, K4)
	(a)	High-fat diet
	(b)	Low-sodium diet
	(c)	Processed food-rich diet
	(d)	Low-protein diet
		2 R3084

9.	Wha	at is a key preventative measure for cervical cancer? (CO4, K4)
	(a)	Pap smear screening
	(b)	High protein diet
	(c)	Increased sugar intake
	(d)	Weight training exercises
10.		at is the goal of the Global Action Plan for NCDs (CO5, K5)

- Increase sedentary behavior (a)
 - (b) Achieve a 25% reduction in premature deaths from
 - (c) Promote tobacco use
 - (d) Reduce health literacy

Part B $(5 \times 5 = 25)$

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

(a) 11. Write short notes on the key contributing factors of lifestyle diseases. (CO1, K2)

Or

- Discuss the relationship between sedentary lifestyle (b) and the development of major lifestyle diseases, citing relevant examples. (CO1, K2)
- 12. Explain the pathophysiology of asthma and its (a) association with lifestyle factors. (CO2, K3)

Or

(b) Describe the pathophysiology of atherosclerosis and its role in cardiovascular diseases. (CO2, K3)

R3084

13. (a) Evaluate public health policies and strategies aimed at promoting smoking cessation and alcohol moderation. (CO3, K4)

Or

- (b) Explain the role of physical activity in the prevention and management of lifestyle diseases, providing examples of age-appropriate exercises. (CO3, K4)
- 14. (a) Discuss the lifestyle and hormonal factors influencing the risk of breast cancer in women. (CO4, K4)

Or

- (b) Evaluate the social and medical implications of infertility in women caused by lifestyle diseases, and discuss possible solutions. (CO4, K4)
- 15. (a) Evaluate the role of technology, including e-health and telemedicine, in monitoring and managing lifestyle diseases. (CO5, K5)

Or

(b) Write a brief note on the National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS).

(CO5, K5)

R3084

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

- 16. (a) Explain the relationship between urbanization, environmental changes, and the increasing prevalence of lifestyle diseases globally. (CO1, K2)

 Or
 - (b) Evaluate the impact of smoking, alcohol consumption, and stress on the progression of lifestyle diseases. (CO1, K2)
- 17. (a) Explain the mechanisms of metabolic syndrome in type 2 diabetes and discuss the complications associated with poor disease management.(CO2, K3)

 Or
 - (b) Analyze the pathophysiology of obesity, including its classification, causes, and associated health risks, with examples. (CO2, K3)
- 18. (a) Evaluate the effectiveness of dietary guidelines, balanced nutrition, and the role of superfoods in preventing lifestyle diseases. (CO3, K4)
 - (b) Analyze the role of stress management techniques in promoting psychological and physical well-being, with examples of effective practices.

 (CO3, K4)
- 19. (a) Evaluate the importance of regular screening and early intervention in managing women-specific lifestyle diseases. (CO4, K4)

Or

(b) Discuss in detail the pathophysiology and management strategies of PCOS. (CO4, K4)

R3084

20. (a) Discuss the barriers to implementing public health policies for lifestyle disease prevention and suggest practical strategies to overcome these challenges.

(CO5, K5)

Or

(b) Discuss the role of government programs and policies in combating lifestyle diseases, with examples of successful national and international initiatives. (CO5, K5)

R3084

Sub. Code 509NM1

M.Sc. DEGREE EXAMINATION, APRIL – 2025

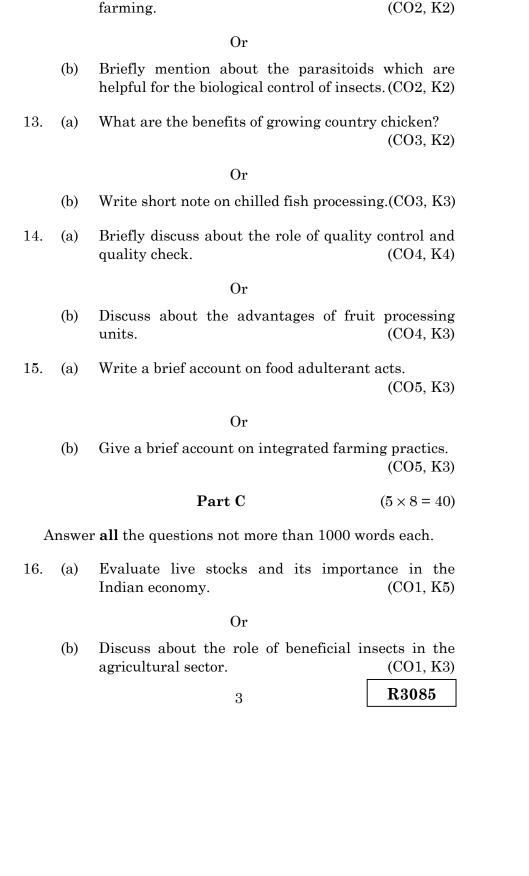
Zoology

NME: BUSINESS SKILLS IN ZOOLOGY

(CBCS - 2022 onwards)

Tim	e:3 F	Hours		Maxim	um : 75 Marks
			Part A		$(10 \times 1 = 10)$
A	nswei	r all the follow	ing question option		g the correct
1.	Usir	ng spiders to co	ntrol the i	nsect pest is ca	alled (CO1, K2)
	(a)	Pesticide	(b)	Predation	
	(c)	Carnivory	(d)	Biological con	trol
2.	Ichn	eumon wasp is	s a		(CO1, K1)
	(a)	Predator	(b)	Pest	
	(c)	Parasitoid	(d)	None of these	
3.	The	(CO2, K1)			
	(a)	Goat	(b)	Donkey	
	(c)	Bull	(d)	Buffalo	
4.	The	chickens that	are raised	for meat are ca	alled (CO2, K2)
	(a)	Layers	(b)	Hen	
	(c)	Chicken	(d)	Broilers	
5.	The	species Philoso	amia ricin	i is called as	(C03, K2)
	(a)	Mulberry silk	worm		
	(b)	Eri silkworm			
	(c)	Muga			
	(d)	None of these)		

6.	Prawn is considered as (CO4, K2			(CO4, K2)	
	(a)	Fin fish	(b)	No fish	
	(c)	Shell fish	(d)	None of these	
7.		xing five or six dif	feren	ce species of fish	h in a single (CO4, K3)
	(a)	Monoculture	(b)	Aquaculture	
	(c)	Composite culture	e (d)	None of these	
8.	Epig earth	eic earthworms o n.	r fou	nd on ———	— part of (CO4, K2)
	(a)	Very deep	(b)	Deep	
	(c)	Surface	(d)	None of these	
9.	-	pe of farming whi as live stock	ch in	volves cultivation	on of crop as (CO5, K3)
	(a)	Mixed farming	(b)	Monoculture	
	(c)	Polyculture	(d)	None of these	
10.		ustainable method tables is called	d of	producing bot	th fish and (CO5, K2)
	(a)	IPM	(b)	Aqua culture	
	(c)	Aqua-phonics	(d)	None of these	
		Par	rt B		$(5 \times 5 = 25)$
	Ansv	ver all questions no	ot mo	re than 500 word	ls each.
11.	(a)	Discuss briefly a cattle for milk pro		_	
			Or		
	(b)	Write short note of the farmers.	on the	e uses of lady bi	rd beetles to (CO1, K2)
			2		R3085



Write short note on the National status of Dairy

12.

(a)

17. (a) Give an account on the types and management of dairy farming. (CO2, K3)

Or

- (b) Discuss about the advantages and challenges in the farming of Broiler and Layers. (CO2, K4)
- 18. (a) Discuss about the different types of production methods of vermicomposting. (CO3, K3)

Or

- (b) Discuss about the pros and cons of Integrated farming management. (CO3, K4)
- 19. (a) Write about different types of silkworms and their culture methods. (CO4, K3)

Or

- (b) Analyze the advantages and disadvantages of different types of fish culture practices. (CO5, K5)
- 20. (a) Discuss about the composite fish culture method and its advantages. (CO5, K3)

Or

(b) Discuss about the status and economics of apicultural practices. (CO3, K4)

Sub. Code 515NM1

M.A. DEGREE EXAMINATION, APRIL – 2025

Journalism and Mass Communication

NME – COMMUNICATION AND PRESENTATION SKILLS

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

 $\mathbf{Part} \mathbf{A} \qquad (10 \times 1 = 10)$

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

- 1. To overcome language barriers in a multicultural team, which of the following strategies would be most effective? (CO1, K2)
 - (a) Increasing the use of jargon
 - (b) Avoiding all forms of verbal communication
 - (c) Using simple and clear language
 - (d) Ignoring the issue
- 2. Which of the following is an example of non-verbal communication in the workplace? (CO1, K2)
 - (a) An email memo
 - (b) A handshake
 - (c) A staff meeting
 - (d) A phone call

	stage of the listening process where the listener rprets the meaning of the message is called (CO2, K4)
(a)	Receiving (b) Understanding
(c)	Evaluating (d) Remembering
-	v is effective listening considered an essential skill in workplace? (CO2, K4)
(a)	It allows for more time for personal tasks
(b)	It helps in understanding and following instructions accurately
(c)	It reduces the need for meetings
(d)	It eliminates all forms of workplace conflict
	ch type of meeting is typically used for brainstorming generating new ideas? (CO3, K5)
(a)	Status update meeting
(b)	Decision-making meeting
(c)	Informal meeting
(d)	Creative meeting
prog	meeting is conducted to evaluate the cress of ongoing projects and discuss any issues or lblocks. (CO3, K5)
(a)	brainstorming (b) status update
(c)	annual review (d) conflict resolution
Whi	ch type of cover letter is written to inquire about ible job openings in a company? (CO4, K1)
	is to joe openings in a company. (e.e., 111)
poss	Application Cover Letter
poss	
poss (a)	Application Cover Letter

0	3371 -						
8.		ch job interview technique involves providing detailed vers to questions using specific examples? (CO4, K1)					
	(a)	STAR Method					
	(b)	Group Interview					
	(c)	Behavioral Interview					
	(d)	Telephone Interview					
9.	Wha	hat is one characteristic of a well-written memo? (CO5, K6)					
	(a)	Lengthy descriptions					
(b) Clarity and conciseness							
	(c)	Informal tone					
	(d)	Use of complex vocabulary					
10.	The	primary purpose of a notice is to ———. (CO5, K6)					
	(a)	Provide detailed information					
	(b)	Negotiate terms					
	(c)	Invite opinions					
	(d)	Inform about an event or announcement					
		Part B $(5 \times 5 = 25)$					
	Answe	r all the questions not more than 500 words each.					
11.	(a)	Discuss the significance of time management in conducting successful meetings and suggest strategies to manage time effectively. (CO3, K5)					

R3086

(CO1, K2)

Or

Identify and explain the characteristics of effective

(b)

communication.

12. (a) Explain the process of listening. (CO2, K4)

Or

- (b) Discuss the importance of job interviews in the employment process and the key factors that influence their success. (CO4, K4)
- 13. (a) Describe the purpose of communication in a professional setting. (CO1, K2)

Or

- (b) List and explain the manners and etiquettes to be maintained during a job interview to make a positive impression. (CO4, K4)
- 14. (a) Outline the steps involved in making a successful oral presentation, from research and planning to delivery. (CO3, K5)

Or

- (b) Describe the significance of pronunciation in oral presentations. Provide examples to illustrate its impact. (CO5, K6)
- 15. (a) Why is listening considered an important skill in the workplace? Provide examples. (CO2, K4)

Or

(b) Analyze the causes of podium panic during public speaking. How can speakers overcome this challenge effectively? (CO5, K6)

Answer all the questions not more than 1000 words each.

16. (a) Differentiate between the various types of listening. (CO2, K4)

Or

- (b) Compare chronological, functional and combination resumes, highlighting their respective advantages and disadvantages. (CO4, K4)
- 17. (a) Compare and contrast verbal and non-verbal communication. (CO1, K2)

Or

- (b) Outline the best practices for delivering an oral presentation. What techniques can be used to engage the audience and ensure clear communication? (CO3, K5)
- 18. (a) Explain the importance of body language in delivering an effective presentation. (CO5, K6)

Or

(b) Define the different types of business meetings and explain their importance in a corporate setting.

(CO3, K5)

19. (a) Discuss the importance of feedback in the communication process. (CO1, K2)

Or

(b) Describe the format and content that should be included to create a compelling cover letter. (CO4, K4)

20. (a) Explain the structure of a report and describe different types of reports and their formats. (CO5, K6)

Or

(b) Identify and discuss common barriers to effective listening. How can these barriers be mitigated? (CO2, K4)

Sub. Code 525NM1

M.Sc. DEGREE EXAMINATION, APRIL - 2025.

Botany

NME - MUSHROOM CULTIVATION

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Which of the following substrates is commonly used for the cultivation of button mushrooms (*Agaricus bisporus*)? (CO1, K2)
 - (a) Wheat straw
- (b) Rice husks
- (c) Sawdust
- (d) Corn cobs
- 2. Which edible mushroom is known for its meaty texture and umami flavor? (CO1, K1)
 - (a) Shiitake (Lentinula edodes)
 - (b) Enoki (Flammulina velutipes)
 - (c) Lion's Mane (Hericium erinaceus)
 - (d) King Oyster (Pleurotus eryngii)
- 3. What is spawn in mushroom cultivation? (CO2, K2)
 - (a) Reproductive structure of mushrooms
 - (b) Mycelium of mushroom fungus
 - (c) Spores produced by mushrooms
 - (d) Fruiting body of the mushroom
- 4. Which of the following materials is commonly used as a substrate for mushroom spawn production? (CO2, K1)
 - (a) Compost
- (b) Grain
- (c) Sawdust
- (d) Soil

5.	Why (a) (b) (c) (d)	Controlling temperature E) Improving substrate texture			
6.		optimal temperatu hroom species	re ra	nge for the cultivation of most (CO3, K3)	
	(a)	10-15°C	(b)	20-25°C	
	(c)	30-35°C	(d)	40-45°C	
7.	How intal		s co	ntribute to dietary fiber (CO4, K2)	
	(a)	They contain solu	ble fi	ber	
	(b)	They contain inso	luble	fiber	
	(c)	They do not conta	in fib	er	
	(d)	They contain both	solu	ble and insoluble fiber	
8.	Whic	ch of the following	nutr	ients is found in mushrooms? (CO4, K4)	
	(a)	Iron	(b)	Omega-3 fatty acids	
	(c)	Vitamin C	(d)	Fiber	
9.	Wha	t is the primar hrooms?	y ir	ngredient used in pickling (CO5, K3)	
	(a)	Vinegar	(b)	Soy sauce	
	(c)	Olive oil	(d)	Lemon juice	
10.		should fresh mus f life?	hrooi	ns be stored to prolong their (CO5, K5)	
	(a)	In a plastic bag at	roon	n temperature	
	(b)	In a paper bag in	the r	efrigerator	
	(c)	In a cardboard box	x in c	lirect sunlight	
	(d)	In a glass jar in th	ne fre	ezer	
			2	R3087	

Answer all questions not more than 500 words each.

11. (a) Describe the physical characteristics of an edible mushroom. (CO1, K2)

Or

- (b) Distinguish an edible mushroom from a poisonous mushroom. (CO1, K2)
- 12. (a) Explain the process of mushroom spawn production using grain. (CO2, K2)

Or

- (b) Describe the process of composting for mushroom cultivation. (CO2, K2)
- 13. (a) Summarize the cultivation of oyster mushroom. (CO3, K3)

Or

- (b) Discuss the significance of temperature in mushroom cultivation. (CO3, K3)
- 14. (a) Highlight the best practices for storing fresh mushrooms to prolong their shelf life? (CO4, K4)

Or

- (b) Evaluate the advantages and disadvantages of freezing mushrooms. (CO4, K4)
- 15. (a) Provide a step by step recipe of any mushroom that you studied. (CO5, K3)

Or

(b) Discuss the market potential and consumer demand for value-added mushroom products in India. (CO5, K3)

R3087

Part C

 $(5 \times 8 = 40)$

Answer all questions not more than 1,000 words each.

16. (a) Describe the potential health benefits associated with mushrooms. (CO1, K2)

Or

- (b) Enumerate the rote of mushrooms in providing essential minerals to diet. (CO1, K2)
- 17. (a) Explain the process of inoculating substrate with mushroom spawn. (CO2, K2)

Or

- (b) Discuss the importance of moisture and temperature control during composting. (CO2, K2)
- 18. (a) Comment on substrate characteristics for mushroom cultivation. (CO3, K5)

Or

- (b) Discuss the impact of microbes on mushroom cultivation. (CO3, K5)
- 19. (a) Illustrate long-term storage conditions of mushrooms. (CO4, K4)

Or

- (b) Describe the canning and alginate coating in storage of mushroom. (CO4, K4)
- 20. (a) Analyze the challenges and opportunities faced by mushroom growers in India. (CO5, K3)

Or

(b) Explicate the process of pickling mushrooms. (CO5, K3)

R3087

Sub. Code 530NM2

M.Sc. DEGREE EXAMINATION, APRIL – 2025

Microbiology

$\begin{array}{c} {\bf NME-AGRICULTURE~AND~ENVIRONMENTAL}\\ {\bf MICROBIOLOGY} \end{array}$

		(CBC	CS-2022	onwards)	
Tir	ne : 3 H	lours		Ma	ximum : 75 Marks
			Part A		$(10 \times 1 = 10)$
	Answe		ving objec ne correct	_	ns by choosing
1.		orrhizal fungi h type of orgai		utualistic r	elationships with (CO1, K3)
	(a)	Plants	(b)	Bacteria	
	(c)	Viruses	(d)	Animals	
2.	Wha	t is the role of	mycorrhi	zal bacteria	in soil? (CO1, K3)
	(a)	Decompositio	n organic	matter	
	(b)	Forming symenhance nutr		-	with plant roots to
	(c)	Nitrogen fixa	tion		
	(d)	Causing plan	t diseases	5	
3.		insecticidal arily due to _	-	of Bacillus —	thuringiensis is (CO2, K3)
	(a)	Antibiotics	(b)	Endotoxin	\mathbf{s}
	(c)	Exotoxins	(d)	Crystal pr	oteins

		t is the primary symptom of bacterial leaf blight in blants? (CO2, K3)
((a)	Formation of water- soaked lesions that turn yellow and then brown
((b)	Yellowing of leaves
((c)	Stunted growth
((d)	Wilting of the entire plant
		th device is commonly used to collect airborne cles for aerobiological studies? (CO3, K4)
((a)	Air sampler (b) Microscope
((c)	Thermometer (d) Anemometer
		th of the following enzymes is involved in the crification process? (CO3, K4)
((a)	Urease
((b)	Nitrate reductase
((c)	Ammonia monooxygenase
((d)	Nitrogenase
		th of the following groups of microorganisms is monly found in estuarine environments? (CO4, K2)
((a)	Psychrophiles (b) Thermophiles
((c)	Halophiles (d) Acidophiles
		ch of the following factors greatly influences obial diversity in mangrove ecosystems? (CO4, K2)
((a)	Light intensity (b) Salinity
((c)	Air pressure (d) Altitude
		th species of earthworm is most commonly used for i composting? (CO5, K1)
((a)	Dendrobaena veneta
((b)	$Allo lo bophora\ chlorotica$
((c)	Lumbricus terrestris
((d)	Eisenia fetida

10.	1				ste at high (CO5, K1)
	(a)	Incineration	(b)	Composting	
	(c)	Land filling	(d)	Recycling	
		P	art B		$(5 \times 5 = 25)$
	Ans	wer all questions	not mo	re than 500 word	s each.
11.	(a)	Briefly describe	mutua	lism.	(CO1, K3)
			Or		
	(b)	Why Frankia as	s a biofe	ertilizer? Explain.	(CO1, K3)
12.	(a)	Explain the bac	terial b	light on rice.	(CO2, K3)
			Or		
	(b)	Explain the backlike mango.	cterial (diseases of agricu	ultural crops (CO2, K3)
13.	(a)	Write a detailed	l accour	nt of aerobiology.	(CO3, K4)
	Or				
	(b)	Write a detailed	l accour	nt of the iron cycle	e. (CO3, K4)
14.	(a)	Write a detailed web.	d accou	nt of the food ch	ain and food (CO4, K2)
			Or		
	(b)	Write a detailed estuaries.	d accour	nt of the microbia	al habitats of (CO4, K2)
15.	(a)	Describe a treat	ment fo	or liquid wastes.	(CO5, K1)
			Or		
	(b)	Describe the pro	oduction	n of biogas.	(CO5, K1)
			3	[R3088

Part C

 $(5 \times 8 = 40)$

Answer all questions not more than 1000 words each.

16. (a) Give an account of the soil microflora and the factors that influence the soil microflora.

(CO1, K3)

Or

- (b) Why Rhizobium as a biofertilizer? Explain it. (CO1, K3)
- 17. (a) Give a detailed account of any two bacterial diseases of agricultural crops and their symptoms, and control measures for pathogens. (CO2, K3)

Or

- (b) Write a brief note on bacteria as bioinsecticides and their applications. (CO2, K3)
- 18. (a) Explain in detail the nitrogen cycle. (CO3, K4)

Or

- (b) Explain in detail the carbon cycle. (CO3, K4)
- 19. (a) Write a detailed account of the factors affecting microbial growth in aquatic ecosystems. (CO4, K2)

Oı

- (b) Explain the aquatic habitats of microorganisms in fresh water and lakes. (CO4, K2)
- 20. (a) Write a type of waste and explain the treatment of solid wastes. (CO5, K1)

Or

(b) Define compositing. Explain the vermicomposting technology. (CO5, K1)

R3088

Sub. Code 533NM1

M.Sc. DEGREE EXAMINATION, APRIL - 2025

Nanoscience and Technology

NME : INTRODUCTION TO NANOSCALE IN SCIENCE AND TECHNOLOGY

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Surface energy of a material is directly related to (CO1, K1)
 - (a) The number of atoms on the surface
 - (b) The temperature of the surroundings
 - (c) The material's density
 - (d) The wavelength of incident light
- 2. The phase transition from gas to plasma is called (CO1, K1)
 - (a) Ionization
- (b) Sublimation
- (c) Deposition
- (d) Condensation
- 3. Which of the following statements about covalent bonding is TRUE? (CO2, K2)
 - (a) It involves electron transfer between atoms
 - (b) It occurs only between metals
 - (c) It results from electron sharing between atoms
 - (d) It is weaker than Van der Waals forces

	(a)) A gas					
	(b)	A solution containing metal alkoxides					
	(c)	A solid bulk material					
	(d)	A polymer					
5.	In a	solid, the band structure arises due to (CO3, K4)					
	(a)	The interaction of atomic orbitals					
	(b)	The splitting of nucleus					
	(c)	The movement of free protons					
	(d)	The formation of Van der Waals forces					
6.		energy barrier between two states in an energy scape determines (CO3, K4)					
	(a)	The speed of electron movement					
	(b)	The activation energy required for a transition					
	(c)	The Fermi energy level					
	(d)	The absolute zero temperature of a system					
7.	The	energy band gap of a quantum dot: (CO4, K3)					
	(a)	Increases as the dot size decreases					
	(b)	Decreases as the dot size decreases					
	(c)	Remains the same regardless of size					
	(d)	Becomes negative					
8.	The	primary function of biological membranes is (C04, K3)					
	(a)	a) To act as a rigid protective shield					
	(b)	To control the movement of molecules in and out of cells					
	(c)	To store genetic information					
	(d)	To convert glucose into ATP directly					
		2 R3089					

In sol-gel processing, the starting material is typically (CO, K2) $\,$

4.

9.	Quar due t (a) (b) (c) (d)	antum dots exhibit size-dependent optical properties (CO5, K5) Quantum confinement effect Electrostatic repulsion Strong covalent bonding Large atomic mass					
10.	Which of the following is a common method used to create self-assembled monolayers? (CO5, K5 (a) Dip-coating in a functionalized solution (b) Mechanical grinding (c) High-pressure application (d) Ion implantation						
		Part B	$(5 \times 5 = 25)$				
An	swer	all the questions in not more than 500 wo	rds each.				
11.	(a)	Write a short note on Top down and approach.	bottom up (CO1, K1)				
		Or					
	(b)	Describe Atomic structure and pha	se energy. (CO1, K1)				
12.	(a)	Compare Intermolecular and Inter part	ticle forces. (CO2, K2)				
		Or					
	(b)	Explain Sol-Gel method.	(CO2, K2)				
13.	(a)	Define Fermi surface.	(CO3, K4)				
		${ m Or}$					
	(b)	Write a short note on energy landscapes.	(CO3, K4)				
14.	(a)	Explain Quantum dots.	(CO4, K3)				
		Or					
	(b)	Write a short note on Miscelles bilayers	(CO4, K3)				
		3	R3089				

ls in Detail (C05, K5)	Explain the Properties of Nanomater with an Example.	(a)	15.
	Or		
(CO5, K5)	Explain carbon Nanotubes.	(b)	
$(5 \times 8 = 40)$	Part C		
ords each.	all the questions in not more than 1000	nswer	Ar
(CO1, K1)	Describe molecular and Atomic Size Or	(a)	16.
proach with (CO1, K1)	Distinguish top down and bottom up a Example.	(b)	
and Vander (CO2, K2)	Explain in detail about the electrostate Waals forces.	(a)	17.
	Or		
Nano-Scale (CO2, K2)	Explain the Basic Principles of materials.	(b)	
(CO3, K4)	Define Inter-Molecular Forces. Or	(a)	18.
e. (CO3, K4)	Describe the Evolution of Band structu	(b)	
es with an (CO4, K3)	Compare Nano-wires and nano tu example.	(a)	19.
	Or		
Membranes. (CO4, K3)	Write a short note on Biological	(b)	
assembling (C05, K5)	Explain in detail about monolayer-se	(a)	20.
	Or		
um dots and (CO5, K5)	Explain the optical properties of Quar Quantum wires.	(b)	
R3089	4		

Sub. Code 540NM1

M.Sc. DEGREE EXAMINATION, APRIL - 2025

Energy Science

NME – BASIC CONCEPTS IN ENERGY SCIENCES

(CBCS - 2022 onwards)

(CDC5 - 2022 onwards)					
Time	e:3 H	lours		Maximum: 75 Marks	
		Par	rt A	$(10 \times 1 = 10)$	
Ans	swer <i>a</i>			e type questions by choosing option.	
1.	Whic	ch of the following i	s a re	enewable energy source? (CO1, K1)	
	(a)	Coal	(b)	Solar	
	(c)	Natural Gas	(d)	Oil	
2.		rgy source com sportation?	monly	used in vehicles for (CO1, K2)	
	(a)	Coal	(b)	Natural Gas	
	(c)	Biofuels	(d)	Nuclear	
3.	Wha calle	_	conve	rting sunlight into electricity (CO2, K1)	
	(a)	Photosynthesis	(b)	Solarization	
	(c)	Solar panels	(d)	Photovoltaics	
4.	Solar	r panels are made ı	up of i	individual units called (CO2, K2)	
	(a)	Photons	(b)	Cells	
	(c)	Modules	(d)	Arrays	

5.		d energy conversi erate electricity.	on sys	stem uses rotatin	g blades to (CO3, K2)				
	(a)	Solar panels	(b)	Hydroelectric tu	rbines				
	(c)	Wind turbines	(d)	Geothermal plan	nts				
6.	The Indi	main challenges ta?	faced i	in harnessing win	d energy in (CO3, K2)				
	(a)	Lack of technolog	gy						
	(b)	High installation costs							
	(c)	Land availability	Land availability						
	(d)	Grid integration	issues	3					
7.	Whi	ch of the following	is a co	ommon source of b	vioenergy? (CO4, K1)				
	(a)	Coal	(b)	Natural Gas					
	(c)	Biomass	(d)	Geothermal heat	t				
8.	Biod	diesel is a type of b	iofuel	derived from	(CO4, K1)				
	(a)	Corn	(b)	Sugarcane					
	(c)	Algae	(d)	Animal fats					
9.		The advantage of geothermal energy over other energy forms. (CO5, K2)							
	(a)	(a) High environmental impact							
	(b)	(b) Limited availability of suitable sites							
	(c)) Low environmental impact							
	(d)	Inconsistency in	power	generation					
10.		———— is geoth	ermal	l energy?	(CO5, K1)				
	(a)								
	(b)								
	(c)								
	(d)	Energy generate	d from	nuclear power pl	ants				
			2		R3090				
				_					

Answer all the questions not more than 500 words each.

11. (a) Explain the energy sources and their importance for sustainable development. (CO1, K4)

Or

- (b) Outline the sustainability of relying on fossil fuels for energy production. (CO1, K4)
- 12. (a) Explain the solar thermal energy conversion system and their applications. (CO2, K6)

Or

(b) Discuss the challenges and prospects of solar photovoltaic systems for energy generation.

(CO2, K6)

13. (a) Discuss the advantages and disadvantages of using wind power as a renewable energy source. (CO3, K4)

Or

- (b) Examine the prospects of technologies for wind energy conversion. (CO3, K4)
- 14. (a) Discuss the classification of biomass, based on its source and characteristics. (CO4, K6)

Or

- (b) Explain the process of converting biomass into biodiesel. (CO4, K6)
- 15. (a) Briefly explain the geothermal energy generation. (CO5, K4)

Or

(b) Elaborate the applications of geothermal energy. (CO5, K4)

R3090

Answer all the questions not more than 1000 words each.

16. (a) Distinguish the role of renewable and nonrenewable energy sources in global energy production. (CO1, K4)

Or

- (b) Interpret the India's energy scenario and global energy scenario. (CO1, K4)
- 17. (a) Explain the solar concentrators with a neat sketch and block diagram, with its Applications. (CO2, K6)

Or

- (b) Elaborate the photovoltaic conversion of solar energy in solar photovoltaic systems. (CO2, K6)
- 18. (a) Classify the wind energy conversion systems and their advantages. (CO3, K4)

Or

- (b) Elaborate the biological indicators to assess the potential for wind energy generation in a particular area. (CO3, K4)
- 19. (a) Explain the source and characterizations of biofuels (CO4, K6)
 - (i) Biodiesel and
 - (ii) Bioethanol.

Or

- (b) Show the Schematic representation of biogas digesters. (CO4, K6)
- 20. (a) Compare the types of tidal power plants and explain the advantages and limitations. (CO5, K4)

Or

(b) Discuss the importance of materials selection in geothermal power plant design and operation. $(CO5,\,K4)$

R3090

Sub. Code 541NM1

M.C.A. DEGREE EXAMINATION, APRIL - 2025

Computer Applications

$\begin{tabular}{ll} NME: INTRODUCTION TO INFORMATION \\ TECHNOLOGY \end{tabular}$

(CBCS – 2022 onwards)

		(СВСБ		on wards)		
Time	e:3 F	Hours		Maximum : 75 Marks		
		Sect	ion A	$(10 \times 1 = 10)$		
Answer all the objective questions by choosing the correct option.						
1.	Phy	sical part of compu	ter is	called(CO1, K2)		
	(a)	Hardware	(b)	Software		
	(c)	Shareware	(d)	None of the above		
2.	Whi	ch of the follow	ing i	s not computer hardware? (CO1, K2)		
	(a)	RAM	(b)	Keyboard		
	(c)	MS Paint	(d)	Monitor		
3.	prog			an-understandable data and omputers can understand and (CO2, K2)		
	(a)	Output	(b)	Monitor		
	(c)	Input	(d)	All of the above		

4.	Whic	ch of the following	g is	used in an optic	al mouse? (CO2, K2)		
	(a)	Infrared light					
	(b)	Light Emitting Diode (LED)					
	(c)	Sensor					
	(d)	Microwave					
5.	Micr	Microsoft word is software. (CO3, K6)					
	(a)	Application	(b)	Compiler			
	(c)	System	(d)	Programming			
6.		is not a function in Excel. (CO3, K6)					
	(a)	SUM	(b)	MIN			
	(c)	SUBTRACT	(d)	MAX			
7.	A computer network employsprocessing. (CO4, K2)						
	(a)	Centralized	(b)	Distributed			
	(c)	Both (a) and (b)	(d)	None			
8.	Arrange the Following Types of Networks according to their size, from largest to smallest? (CO4, K2)						
	(a)	LAN, WAN, MAN	(b)	WAN, LAN, MAN	1		
	(c)	MAN, LAN, WAN	(d)	WAN, MAN, LAN	ſ		
9.	Whic	ch of the followin	g is	a programming	language? (CO5, K2)		
	(a)	Python	(b)	Photoshop			
	(c)	Microsoft Word	(d)	Adobe Illustrator			
			2		R3091		

10.		nat is the term used for a block of code that is executed peatedly until a certain condition is met? (CO5, K2)						
	(a)	Function (b) Loop						
	(c)	Condition (d) Variable						
		Section B $(5 \times 5 = 25)$						
Answer all the questions not more than 500 words each.								
11.	(a)	List out the differences between RAM and ROM. (CO1, K2)						
		Or						
	(b)	Explain the types of Computers. (CO1, K2)						
12.	(a)	List the Laser Printer features. (CO2, K2)						
		Or						
	(b)	Narrate the Working principles of Laser Printer. (CO2, K2)						
13.	(a)	Explain the basic formatting techniques. (CO3, K6)						
		Or						
	(b)	Describe the Chart types. (CO3, K6)						
14.	(a)	Explain the Bus architecture. (CO4, K2)						
		Or						
	(b)	Define (i) Antialiasing (ii) Morphing. (CO4, K2)						
15.	(a)	Discuss the block structured programming. (CO5, K2)						
		Or						
	(b)	Write a short note on Modular programming. (CO5, K2)						
		3 R3091						

Section C $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Elaborate on basic anatomy of a computer.(CO1, K2)

Or

(b) Describe the Applications of computer. (CO1, K2)

17. (a) Explain the screen types. (CO2, K2)

Or

(b) Different kinds of Pointing devices. (CO2, K2)

18. (a) Elaborate on word processing features. (CO3, K6)

Or

(b) Describe the spreadsheet window. (CO3, K6)

19. (a) Describe the applications areas of Multimedia. (CO4, K2)

Or

- (b) Elaborate on the different types of Networks. (CO4, K2)
- 20. (a) Discuss the $1^{\rm st}$ and $2^{\rm nd}$ generation programming languages. (CO5, K2)

Or

(b) Explain branching and looping techniques in detail. (CO5, K2)

R3091

Sub. Code 542NM1

M.Sc. DEGREE EXAMINATION, APRIL - 2025

Materials Science

NME - ELECTRONICS FOR DAILY LIFE

(CBCS - 2022 onwards)

Time: 3 Hours		Maximum: 75 Marks		
	Part A	$(10 \times 1 = 10)$		
Answer all the following objective questions by choosing				

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

- 1. An electrical insulation prevents (CO1, K2)
 - (a) electric shock (b) open circuit voltage
 - (c) power maximum (d) none of the above
- 2. Flow of____ through the body heats the tissues, leading to burns (CO1, K2)
 - (a) electricity (b) blood
 - (c) Water (d) none of the above
- 3. The primary function of a fuse is (CO2, K2)
 - (a) Open the circuit
 - (b) to prevent excessive currents from flow through the circuit
 - (c) Earthing
 - (d) None of the above

4. Fill up: is the role of a trip bar in breaker?			r in a circuit (CO2, K2)				
	(a)						
	` '	(b) To sense excessive current(c) To reset the breaker after tripping					
	(c) (d)			ter tripping			
5.	` ′	up:		mes under smai	rt electronics (CO3, K1)		
	(a)	Smart phone	(b)	Thermometer			
	(c)	Plug	(d)	None of the abo	ove		
6.	LCI) means			(CO3, K2)		
	(a)	Liquid Crystal D	isplay	•			
	(b)	Logic Circuit Dat	a				
	(c)	Logic Circuit Des	sign				
	(d)	None of the above	e				
7.	Fill up: coupled with additional lenses can be used to visualize samples and detect diseases like norovirus or viral infections (CO4, K2)						
	(a)	Smart phone	(b)	Speaker			
	(c)	memory device	(d)	None of the abo	ove		
8.	Che cell	mical energy is cor	nverte	d to ene	ergy by a fuel (CO4, K1)		
	(a)	solar	(b)	electrical			
	` '	potential	` ′	mechanical			
9.	Wha	at is the primary o	charac	eteristic of renew	vable energy? (CO5, K1)		
	(a)	It is derived from	fossi	l fuels			
	(b)	It requires long p			ed		
	(c)	It can be used resources	d inc	definitely withou	ut depleting		
	(d)	None of the above	e				
			2		R3092		

10.	Com	pact fluorescent lamp has (CO5, K2)
	(a)	no filament (b) nichrome filament
	(c)	tungsten filament (d) chromium filament
		Part B $(5 \times 5 = 25)$
A	nswe	all the questions not more than 500 words each.
11.	(a)	Illustrate the importance of electrical safety measures. (CO1, K4) Or
	(b)	Discuss the importance of electrical insulation. (CO1, K4)
12.	(a)	Write short notes on switches and sockets.(CO2, K5) Or
	(b)	Explain the working principle of circuit breaker. (CO2, K4)
13.	(a)	Explain the difference between LCD and LED TV. (CO3, K4)
	a >	Or
	(b)	Give an account on smartness in phone and watch. (CO3, K5)
14.	(a)	Discuss the difference between energy density and power density. (CO4, K4) Or
	(b)	Write an essay on supercapacitor and list out its advantages and disadvantages. (CO4, K4)
15.	(a)	Describe about various renewable energy sources. (CO5, K4)
		Or
	(b)	Discuss the working principle of photovoltaic cell. (CO5, K4)
		3 R3092

Part C $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Elaborate the safety against over and residual voltages. (CO1, K5)

Or

- (b) Explain about electrical fires and arc flash.(CO1, K4)
- 17. (a) Give an account on different types earthing/grounding and its importances. (CO2, K5)

Or

- (b) Discuss the working principles of electrical sockets and fuses. (CO2, K4)
- 18. (a) Write an essay on concept of medical diagnostics based on smart phones. (CO3, K4)

Or

- (b) Elaborate the importances of human computer interaction. (CO3, K5)
- 19. (a) Explain about the primary and secondary batteries also its importances. (CO4, K4)

Or

- (b) Outline the working principles of fuel cell. (CO4, K5)
- 20. (a) Write an essay on the energy efficient lamps. (CO5, K4)

Or

(b) Discuss about the solar car and its benefits. (CO5, K4)

R3092

Sub. Code 547NM1

M.Sc. DEGREE EXAMINATION, APRIL 2025.

Fisheries Science

NME - INTEGRATED FISH FARMING

(CBCS - 2022 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. In fish culture ponds, the inlets and outlets are constructed in (CO1, K1)
 - (a) Opposite side
 - (b) Right angle to each other
 - (c) Same side
 - (d) None
- 2. Fish food is the major source of

(CO1, K3)

- (a) Fat
- (b) Iron
- (c) Protein
- (d) Carbohydrates
- 3. Name the water used for mariculture

(CO2, K2)

- (a) Fresh water
- (b) Salt water
- (c) Chlorinated water (d)
 - All of these
- 4. More than one species of fish is culture at a time, then it is called (CO2, K5)
 - (a) Aquaculture
- (b) Monoculture
- (c) Polyculture
- (d) Mariculture

5.	The	follo	wing is/are	the exa	mple for bracki	sh water fish (CO3, K2)	
	(a)	Asia	an seabass	(b)	Milk fish		
	(c)	Gre	y mullet	(d)	All of the above	е	
6.			wing anima system	ls are as	ssociated with in	ntegrated fish (CO3, K2)	
	(a)	Cow	V	(b)	Pigs		
	(c)	Duc	ek	(d)	All of these		
7.	Fish live near the surface of the sea or lake (CO4, K4)						
	(a)	Pela	agic fish	(b)	Deep sea fish		
	(c)	Den	nersal fish	(d)	Coastal fish		
8.	Nati	ional	Fisheries	Develor	oment Board i	s located in (CO4, K1)	
	(a)	Che	ennai				
	(b)	Hyd	lerabad				
	(c)	Dell	hi				
	(d)	Mu	mbai				
9.	The following fibre is obtained from the coconut husk (CO5, K5)						
	(a)	Roc	kwool	(b)	Coir		
	(c)	Per	lite	(d)	None		
10.	Hydroponics is a method of cultivation of plants without the use of (CO5, K3)						
	(a)	Air		(b)	Water		
	(c)	Soil		(d)	Sunlight		
				2		R3093	

Part B

 $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Describe polyculture with suitable examples. (CO1, K2)

Or

(b) Write a brief note on composite fish culture.

(CO1, K1)

12. (a) Brief note on different types of economically important agricultural crops. (CO2, K5)

Or

- (b) Describe the different types of economically important agricultural crops. (CO2, K3)
- 13. (a) What is the role of sericulture in integrated fish farms? (CO3, K1)

Or

- (b) Explain the advantages of apiculture in fish farm. (CO3, K2)
- 14. (a) What is the importance of epiculture in fish farms. (CO4, K3)

Or

- (b) Write about the different types of integrated farming system. (CO4, K1)
- 15. (a) Write a brief note on aquaponics. (CO5, K2)

Or

(b) How do you produce the fish and plants using aquaponics? (CO5, K6)

R3093

Answer all questions not more than 1,000 words each.

16. (a) Write an essay on present status of coastal aquaculture in India. (CO1, K2)

Or

(b) Explain in detail – Integrated fish farming. (CO1, K1)

17. (a) Describe in detail about mushroom cultivation. (CO2, K1)

Or

- (b) Give a detailed note on suitable agricultural crops for integrated fish farming. (CO2, K5)
- 18. (a) Write about the values and benefits of keeping different animals on fish farms. (CO3, K3)

Or

- (b) Explain about different types of animals for integrated fish farming system. (CO3, K2)
- 19. (a) Describe in detail Current status of integrated fish farming in India. (CO4, K5)

Or

- (b) Explain the role of cattle farming in integrated fish farms. (CO4, K3)
- 20. (a) Describe the design and construction of an aquaponics system. (CO5, K4)

Or

(b) Describe feed and health management in aquaponics. (CO5, K2)

R3093

Sub. Code 549NM1

M.A. DEGREE EXAMINATION, APRIL - 2025

Public Administration

$\begin{array}{c} {\bf NME-INTRODUCTION\ TO\ PUBLIC} \\ {\bf ADMINISTRATION} \end{array}$

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Good governance should not be worked with (CO1, K1)
 - (a) Transparency
- (b) Accountability
- (c) Nepotism
- (d) The rule of law
- 2. Bureaucracy is based on

(CO1, K1)

- (a) Corporate Authority
- (b) Personal Authority
- (c) Traditional Authority
- (d) Charismatic Authority
- 3. Number of subordinates a manager can effectively direct is called (CO2, K2)
 - (a) Span of management
 - (b) Esprit de corps
 - (c) Gangplank
 - (d) None of the above

4.	The	role of Staff Agen	(CO2, K2)					
	(a)	Performing the field task						
	(b)	Advisory						
	(c)	Housekeeping function						
	(d)	None of the above						
5.	of leadership means that a leader's effectiveness depends on how well their style fits the context in which it is practised. (CO3, K4)							
	(a)	Trait Theory						
	(b)	Behavioural Theory						
	(c)	Contingency Theory						
	(d)	None of the abo	ve					
6.	is the person who develops and sends the message (CO3, K4)							
	(a)	Encoder	(b)	Decoder				
	(c)	Receiver	(d)	None of the ak	oove			
7.	The shares of a Government Company are purchased in the name of (CO4, K5)							
	(a)	The Indian Government						
	(b)	The President of India						
	(c)	The Chief Minister of the state						
	(d)	The Managing Director of the company						
8.	Public Corporation held liable for (CO4, K5)							
	(a)	a) Contractural Liability						
	(b)	Tortious Liability						
	(c)	Crime						
	(d)	All the above						
9.	Pub	Public Interest Litigation helps to solve ——— issue (CO5, K1)						
	(a)	Individual	(b)	Public				
	(c)	Government	(d)	Terrorist				
			2		R3094			

10.	The relationship between Citizen and Government shape (CO5					
	(a)	Cardial	(b)	Rigid		
	(c)	Violent	(d)	None of the a	bove	
			Part B		$(5 \times 5 = 25)$	
A	nswe	er all the questic	ns not n	nore than 500 v	words each.	
11.	(a)	How Public Ad Indian society?		ation helps for	the growth of (CO1, K1)	
			Or			
	(b)	List the differ and Private Ac			Administration (CO1, K1)	
12.	(a)	Explain the fu	nctions o	of Line Agencie	s. (CO2, K2)	
			Or			
	(b)	Explain the fu	nction of	Staff Agencies	. (CO2, K2)	
13.	(a)	Examine the re	ole of NI	TI AAyog.	(CO3, K4)	
			Or			
	(b)	Examine Com	nunicati	on Process.	(CO3, K4)	
14.	(a)	Explain the organised.	bases o	on which a c	department is (CO4, K5)	
			Or			
	(b)	Determine he headquarters a				
15.	(a)			nisterial respo f Parliament	onsibility is a ary system"– (CO5, K6)	
			Or			
	(b)	Discuss People	s Partic	ipation in Gove	rnance. (CO5, K6)	
			3		R3094	

Part C $(5 \times 8 = 40)$ Answer all the questions not more than 1000 words each. Describe the relation of Public Administration with 16. (a) other Social Sciences. (CO1, K1) Or (b) Describe the growth of New Public Management. (CO1, K1) 17. (a) Explain Henry Fayol's 14 principles of organisation. (CO2, K2)Or (b) Explain the decentralization of powers in India. (CO2, K2) 18. Examine the leadership in Indian Democracy. (a) (CO3, K4) Or (b) Examine the process of decision making. (CO3, K4) 19. (a) Assess the role of Public Corporations. (CO4, K5) Or (b) Evaluate characteristics Government the of (CO4, K5) Companies. 20. Elaborate Judicial Control Public (a) over Administration. (CO5, K6) Or (b) Elaborate of Public the role media in

4

(CO5, K6)

R3094

Administration.

Sub. Code 551NM1

M.Sc. DEGREE EXAMINATION, APRIL - 2025

Computer Science

NME — OFFICE AUTOMATION

(CBCS - 2022 onwards)

- 1. What is the default operating system of Microsoft? (CO1, K2)
 - (a) Windows XP
- (b) Windows 7
- (c) Windows 10
- (d) Windows Server
- 2. Which can be used for quick access to commonly used commands and tools? (CO1, K1)
 - (a) Status bar
- (b) Tool bar
- (c) Menu bar
- (d) Title bar
- 3. Ctrl + J is used to

(CO2, K4)

- (a) Align Justify
- (b) Insert Hyperlink
- (c) Search
- (d) Print
- 4. What is the default left margin in Word 2003 document? (CO2, K2)
 - (a) 1

- (b) 1.25
- (c) 1.5
- (d) 2

5.	Which area in an Exceedand formulas?			el wi	ndow allows	entering values (CO3, K4)		
	(a)	Title bar		(b)	Menu bar			
	(c)	Formula	bar	(d)	Standard too	olbar		
6.	Sho	rtcut key	CTRL	+ D	is used to	(CO3, K2)		
	(a)	Open fon	t dialog l	оох				
	(b)	Open for	mat cells	dialo	g box			
	(c)	Shift cur	rent cells	s valu	e in the right	cell		
	(d)	Fill down	in the s	electi	on			
7.		a collection it can be e			_	in such manner (CO4, K1)		
	(a)	Informat	ion	(b)	Database			
	(c)	Data		(d)	None of thes	e		
8.	The	key in MS	S-Access	differ	entiates the r	records in a file. (CO4, K2)		
	(a)	Common	Key	(b)	Primary key			
	(c)	Foreign k	xey	(d)	Master key			
9.	Which of the following font effect is available in PowerPoint Font dialog box? (CO5, K4)							
	(a)	Underlin	e	(b)	Shadow			
	(c)	Emboss		(d)	Strikethroug	gh		
10.		Which of the following is the shortcut key to open the existing presentation in the power point? (CO5, K2)						
	(a)	Ctrl + M		(b)	Ctrl + N			
	(c)	Ctrl + O		(d)	Ctrl + K			
				2		R3095		
				_				

5.

Part B

 $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Explain how to view computer details in windows with diagram. (CO1, K3)

Or

- (b) Discuss about how to create an save files in MS-Office. (CO1, K3)
- 12. (a) Write notes on text editing in MS-Office. (CO2, K5)

Or

- (b) Illustrate about the various formatting facilities with suitable example. (CO2, K5)
- 13. (a) Describe how to resize the rows and columns in Excel. (CO3, K1)

Or

- (b) Explain how to improve the appearance of Worksheet. (CO3, K1)
- 14. (a) Write notes on features of MS-Access. (CO4, K1)

Or

- (b) Explain how to create form in MS-Access. (CO4, K1)
- 15. (a) Discuss how will create and manipulate slides in Power Point. (CO5, K4)

Or

(b) Write notes on Outlook Window. (CO5, K4)

R3095

Part C

 $(5 \times 8 = 40)$

Answer all questions not more than 1000 words each.

16. (a) Discuss about copying and moving a document with example. (CO1, K5)

Or

- (b) Enumerate about title bar and status bar. (CO1, K5)
- 17. (a) Discuss about different font styles in MS-Word document. (CO3, K3)

Or

- (b) How to modify row and column in the existing table with example. (CO3, K3)
- 18. (a) Elucidate how formulas and functions are used in Excel work sheet with examples. (CO3, K5)

Or

- (b) Explain about how to improve the appearance of the worksheet. (CO3, K5)
- 19. (a) Describe about create a query in MS-Access. (CO4, K4)

Or

- (b) Discuss about report preparation in MS-Access. (CO4, K4)
- 20. (a) Illustrate how to merge an access report from an Excel list. (CO5, K4)

Or

(b) Enumerate about word hand out from power point binder. (CO5, K4)

R3095

Sub. Code 558NM1

M.Sc. DEGREE EXAMINATION, APRIL - 2025

Nutrition and Dietetics

NME: BASICS OF HUMAN NUTRITION

(CBCS - 2023 onwards)

	(СВСБ	- 2020	onwarus)
e:3 F	Hours		Maximum : 75 Marks
	I	Part A	$(10 \times 1 = 10)$
swer a			
			determined on the fact that nd (CO1, K2)
(a)	Meat	(b)	Legumes
(c)	Vegetables	(d)	Fruits
			veight and deficiencies in shown in the(CO1, K2)
(a)	Normal	(b)	Over
(c)	Under	(c)	Both over and under
	_		trong bones and teeth and (CO2, K1)
(a)	Calcium	(b)	Iron
(c)	Magnesium	(d)	Potassium
	Protection (a) (c) Was vita nutrection (a) (c) This help (a)	swer all the following the Protein RDA for Inc. (a) Meat (c) Vegetables Wasting, stunting, vitamins and miner nutrition condition. (a) Normal (c) Under This mineral helps helps with muscle fu	Part A swer all the following objective the correct of the correct of the diet is based on cereals at (a) Meat (b) (c) Vegetables (d) Wasting, stunting, underwyitamins and minerals are nutrition condition. (a) Normal (b) (c) Under (c) This mineral helps build shelps with muscle function. (a) Calcium (b)

4.	Which one of the following nutrients provides per gram?				9 calories (CO2, K1)
	(a)	Carbohydrate	(b)	Protein	
	(c)	Fat	(d)	Dietary fiber	
5.	Coba	lamin is also called	as_	·	(CO3, K2)
	(a)	Vitamin A	(b)	Vitamin B2	
	(c)	Vitamin B12	(d)	Vitamin E	
6.	Whic	h one is the best so	urce	of riboflavin?	(CO3, K2)
	(a)	Organ meats	(b)	Citrus fruits	
	(c)	Milk	(d)	Lean meat	
7.	Mara	asmus is a deficienc	y of _	·	(CO4, K1)
	(a)	Carbohydrates	(b)	Protein	
	(c)	Fats	(d)	All macronutrient	es
8.	Bing	e eating is a		disorder.	(CO4, K1)
	(a)	Physiological	(b)	Mental	
	(c)	Psychiatric	(d)	Nerve	
9.		ases in which c mulates in wall of a		•	materials (CO5, K1)
	(a)	Diabetic syndrome)		
	(b)	Tuberculosis			
	(c)	Arteriosclerosis			
	(d)	Atherosclerosis			
10.	Late	(progressive) sta	age (of liver disease	is called (CO5, K1)
	(a)	Cirrhosis	(b)	Fatty liver	
	(c)	Liver cancer	(d)	Liver failure	
			2		R3096

Part B

 $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Briefly discuss the classification of food groups. (CO1, K2)

Or

(b) Under nutrition-Explain.

(CO1, K2)

12. (a) Discuss the functions of protein. Give five sources of good quality proteins. (CO2, K4)

Or

- (b) Write the recommended intake of protein and fat. (CO2, K4)
- 13. (a) Give a note on vitamin C and its functions in our body. (CO3, K3)

Or

- (b) Summarize the functions of calcium and list out the food sources. (CO3, K3)
- 14. (a) List out the benefits of breast milk. (CO4, K5)

Or

- (b) What are the risk factors associated with old age people? (CO4, K5)
- 15. (a) Differentiate communicable and non-communicable diseases. (CO5, K2)

Or

(b) Write about the causes, symptoms and risk factors of cancers. (CO5, K2)

R3096

Part C $(5 \times 8 = 40)$

Answer all questions not more than 1000 words each.

16. (a) Give a detailed account on the malnutrition. (CO1, K2)

Or

- (b) Write about the functions of food in human health. (CO1, K2)
- 17. (a) Explain the functions and requirements of carbohydrate. (CO2, K4)

Or

- (b) Describe the deficiencies and recommended intake of fats. (CO2, K4)
- 18. (a) Discuss the fat-soluble vitamins functions, requirements and food sources. (CO3, K3)

Or

- (b) Elaborate the functions and deficiencies of iron. (CO₃, K₃)
- 19. (a) Measure the nutritional needs and dietary allowances for pregnancy. (CO4, K5)

Or

- (b) Explain the nutritional needs for old age people. (CO4, K5)
- 20. (a) Write a detailed note on the SARS and Covid-19. (CO5, K2)

Or

(b) Explain in detail the liver disorders and their dietary management. (CO5, K2)

R3096

Sub. Code 24MHR2N1

M.A. DEGREE EXAMINATION, APRIL – 2025 Human Resource Development

HUMAN RESOURCE DEVELOPMENT

(CBCS - 2024 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Which of the following is a function of both HRM and HRD? (CO1, K2)
 - (a) Managing employee compensation
 - (b) Identifying training needs for employee growth
 - (c) Conducting performance reviews
 - (d) Handling employee grievances
- 2. Which of the following is a common challenge faced by HRD professionals in organization? (CO1, K2)
 - (a) Managing employee compensation
 - (b) Ensuring effective leadership development
 - (c) Ensuring the legal compliance of recruitment process
 - (d) Handling employee grievances

3.		t is the primary purpose of assessing the need for in an organization? (CO2, K2)
	(a)	To reduce employee salaries
	(b)	By reducing employee salaries
	(c)	To increase workload on employees
	(d)	To eliminate the need for HR Policies
4.	How	does HRD contribute to Intellectual Capital? (CO2, K2)
	(a)	By enhancing employee knowledge and skills
	(b)	To identify gaps in employee skills and competence
	(c)	By eliminating the need for training
	(d)	By discouraging innovation
5.	Indu betw	strial relations primarily deal with the relationship een (CO3, K3)
	(a)	Employer and Government
	(b)	Employer and Employee
	(c)	Employer and Customer
	(d)	Government and Trade Unions
6.	Deve	elopment centre is mainly focused on (CO3, K3)
	(a)	Identifying Training needs
	(b)	Firing Underperforming employees
	(c)	Payroll processing
	(d)	Resolving industrial disputes
		2 R3097

7.	Which of the following is a key benefit of using Assessment Centers in organizations? (CO4, K2)						
	(a)	Reducing employee salaries					
	(b)	Improving reelection and promotion decisions					
	(c)	(c) Eliminating workplace conflicts					
	(d)	Avoiding legal compliance					
8.	Which of the following is a coaching technique? (CO4, K2)						
	(a)	Role-playing (b) Dictating solutions					
	(c)	Avoiding feedback (d) Ignoring performance gaps					
9.	Which of the following is a key benefit of mentoring? $(CO5, K5)$						
(a) Faster promotions for the mentor							
	(b)	Increased knowledge transfer and career growth					
	(c)	Immediate skill mastery					
	(d)	Reduced need for training program					
10.		ch of the following is a critical success factor when lementing a Balanced Scorecard? (CO5, K5)					
	(a)	Clear communication of strategic objectives					
	(b)	Ignoring employee feedback					
	(c)	Focusing only on financial metrics					
	(d)	Avoiding customer feedback					
		3 R3097					

Part B

 $(5 \times 5 = 25)$

Answer all the questions not more than 500 words each.

11. (a) Discuss about the difference between HRD and HRM. (CO1, K2)

Or

- (b) Summarise the key competencies required for HRD professional. (CO1, K2)
- 12. (a) Outline about HR audit and why is it important. (CO₂, K₂)

Or

- (b) Discuss on how organizations identify the need for an HRD program. (CO2, K2)
- 13. (a) Summarise an assessment centre and how does it differ from a development center? (CO3, K3)

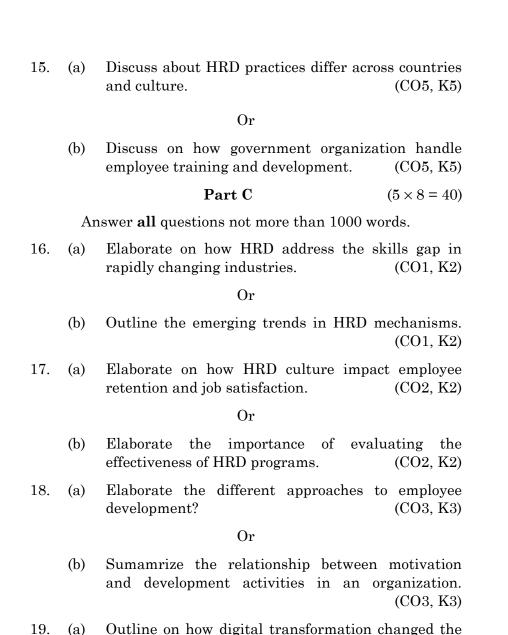
Or

- (b) Outline HRD initiatives shape workplace culture in relation to industrial relations? (CO3, K3)
- 14. (a) Discuss coaching and mentoring contribution to employee development. (CO4, K2)

Or

(b) Summarize on competency mapping help in recruitment and selection. (CO4, K4)

R3097



way organizations approach HRD?

competitive industries.

(b)

Or

5

Summarise on how the employer branding affect an organizations ability to attract top talent in

(CO4, K2)

(CO4, K2)

R3097

20. (a) Outline HRD strategies which are most effective for improving productivity in manufacturing and service industry. (CO5, K5)

Or

(b) Discuss on now does HRD address workforce diversity and inclusion in government institutions. (CO5, K5)

Sub. Code 622NM1

M.B.A. DEGREE EXAMINATION, APRIL - 2025.

Corporate Secretarship

NME - INTRODUCTION TO GST

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. In India, GST became effective from (CO1, K1)
 - (a) 1st April 2017
- (b) 1st January, 2017
- (c) 1st July, 2017
- (d) 1st March, 2017
- 2. The tax IGST charged by

(CO1, K1)

- (a) Central government
 - (b) State government
 - (c) Concerned Department
 - (d) Both (a) and (b)
- 3. Who is the Chairperson of the GST Council? (CO2, K1)
 - (a) Union Finance Minister
 - (b) Finance Secretary
 - (c) Prime Minister
 - (d) State's finance Minister
- 4. A supply made in the course or furtherance of business is (CO2, K1)
 - (a) Inward Supply
- (b) Supply in transit
- (c) Outward supply
- (d) Dead supply

5.	Who will notify the rate of tax to be levied under CGST Act? (CO3, K1)								
	(a)	Central Governme	ent su	io moto	, , ,				
	(b)	State Government suo moto							
	(c)	GST Council suo moto							
	(d)	Central Government as per the recommendations of the GST council							
6.	Wha	What are the taxes levied on intra-state supply?(CO3, K1)							
	(a)	CGST and SGST	(b)	CGST					
	(c)	SGST	(d)	IGST					
7.	The the	value of the supp	ly of	goods and serv	rices shall be (CO4, K1)				
	(a)	Transaction value	(b)	MRP					
	(c)	Market value	(d)	Cost price					
8.	Input tax credit as credited in Electronic Credit Ledger can be utilised for payment of (CO4, K1)								
	(a)	Liability							
	(b)	Taxes							
	(c)	Interest and penalty							
	(d)	Fine							
9.	The	The tax invoice incase of supplier of goods is issued in (CO5, K1)							
	(a)	Triplicate							
	(b)	Duplicate							
	(c)	Either(a) or(b) at the option of taxpayer							
	(d)								
10.	Under GST a Credit note can he issued by (CO5, K1)								
	(a)	Supplier	(b)	Receiver	, ,				
	(c)	Both (a) and (b)	(d)	Agent					
	(-)		()	8					
			2		R3098				

5.

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) State the objectives of Taxation. (CO1, K3)

Or

(b) What is subsuming of tax? (CO1, K3)

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

Or

- (b) Define the terms 'Goods' and Place of Business under GST. (CO2, K2)
- 13. (a) Who are the taxpayers exempt from GST? (CO3, K2)

Or

- (b) What are the provision relating to Exempt supply under GST? (CO3, K2)
- 14. (a) Write the significance of Input tax and e-waybill. (CO4, K2)

Or

(b) Report the significance of Zero-rated Supply.

(CO4, K2)

15. (a) Comment on Provisional assessment under GST.

(CO5, K1)

Or

(b) State the provisions relating to the assessment Unregistered Person under GST. (CO5, K1)

R3098

Part C $(5 \times 8 = 40)$

Answer all questions not more than 1,000 words each.

16. (a) Bring out the salient features of CGST and IGST.

(CO1, K3)

Or

- (b) Explain the advantages of GST from the Citizens. Industry and Government perspective. (CO1, K3)
- 17. (a) Interpret the provisions on levy and collection of GST under IGST. (CO2, K2)

Or

- (b) Describe the powers and functions of the GST council. (CO2, K2)
- 18. (a) Explain types of Supply under GST. (CO3, K2)

Or

- (b) Discuss the eligibility and conditions for taking Input Tax Credit. (CO3, K2)
- 19. (a) Explain the various types of Returns under GST.

(CO4, K2)

Or

- (b) Elucidate the provisions of GST on Tax invoice,' Credit Note' and 'Debit note'. (CO4, K2)
- 20. (a) Explain the types of assessment processes under GST. (CO5, K1)

Or

(b) Enumerate the various modes of collection of tax under GST. (CO5, K1)

R3098

M.B.A. DEGREE EXAMINATION, APRIL - 2025

Banking and Insurance

NME: PRACTICAL BANKING

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

Answer all questions by choosing the correct option.

- 1. What was the Ultimate goal of demonetization? (CO1, K2)
 - (a) To make India a cashless economy
 - (b) To increase Govt. revenue
 - (c) To reduce corruption and black money
 - (d) To stabilize the economy
- 2. What is the maximum amount that can be deposited in a payment banks? (CO1, K2)
 - (a) 50,000
- (b) 1,00,000
- (c) 2,00,000
- (d) 5,00,000
- 3. A wrong entry in a pass book favorable to a customer constitutes a settlement of account provide ————.

(CO2, K3)

- (a) The customer acts upon its immediately
- (b) The customer acts upon in it good faith and with negligence
- (c) The customer has altered his position by reusing upon it
- (d) (b) and (c) together but not (a)

((

4. The rate of interest is payable on various dependent determined by the						s deposits is (CO2, K3)		
	(a)	Head office of	each ban	ık				
	(b)	Central Bank						
	(c)	RBI						
	(d)	Indian banks	associatio	on				
5.	Wha	at is a loan agair	nst FDR?			(CO3, K5)		
	(a)	Loan against f	ixed dep	osit				
	(b)	Loan against i	recurring	g deposit				
	(c)	Loan against s	savings a	ccount				
	(d)	Loan against o	current a	ccount				
6.		Which of the following is a benefit of micro credit support for new entrepreneurs? (CO3, K5)						
	(a)	Increased cash	n flow					
	(b)	Improved cred	lit score					
	(c)	Business expa	nsion					
	(d)	All of these						
7.	Wha	at is the maxin	num amo	ount for	NEFT t	cransactions? (CO4, K2)		
	(a)	1,00,000	(b)	2,00,00	0			
	(c)	5,00,000	(d)	No limi	t			
8.	Whi	ich of the followi	ng is a b	enefit of	POST?	(CO4, K2)		
	(a)	Faster transactions						
	(b)	Secure transac	ctions					
	(c)	Convenient tra	ansaction	ns				
	(d)	All of these						
			2			R3099		
			_					

9.		at is the Main driver of the shift towar king?	ds paperless (CO5, K5)
	(a)	Environmental concerns	(000, 110)
	(b)	Cost savings	
	(c)	Increased security	
	(d)	Govt. regulations	
10.	Any	complaint should be lodged with ombu-	dsman when (CO5, K5)
	(a)	There is any deficiency in banking servi	ces
	(b)	No reply is received from the bank months of receipt of complaint	within two
	(c)	The complaint is rejected and a period has not been lapsed from the date of rej	•
	(d)	(b) and (c) together	
		Part B	$(5 \times 5 = 25)$
	Ansv	wer all questions, not more than 500 word	ds each.
11.	(a)	Compare the private sector banks with banks.	public sector (CO1, K2)
	(b)	Or Outline the difficulties faced by RRBS.	(CO1, K2)
	(b)	Outline the difficulties faced by 10005.	(CO1, K2)
12.	(a)	Identify the features of current deposit. Or	(CO2, K3)
	(b)	Discover the procedure for closing account.	of a bank (CO2, K3)
13.	(a)	Distinguish between cash credit and	term loans. (CO3, K5)
		Or	, , ,
	(b)	Assess the importance of Micro credit.	(CO3, K5)
14.	(a)	Outline the benefits of RTGS. Or	(CO4, K2)
	(b)	Express your views relating to Fin to	ech banking. (CO4, K2)
		·	

	(b)	Evaluate the significance of branchless banking. (CO5, K5)
	A	Part C $(5 \times 8 = 40)$
	Answ	rer all questions, not more than 1000 words each.
16.	(a)	Explain the role of RBI with respect to issue of currency notes. (CO1, K2)
	(b)	Classify the different types of banks in India. (CO1, K2)
17.	(a)	Discuss the formalities which a banker has to observe before opening a new account. (CO2, K3) Or
	(b)	Identify the important features of debit card. (CO2, K3)
18.	(a)	Explain the procedure to apply for educational loan. (CO3, K5)
	(b)	Or Assess the significant role of NABARD in agricultural credit. (CO3, K5)
19.	(a)	Summarise the merits and demerits of mobile banking. (CO4, K2)
	(b)	Outline the impact of UPI in Indian economy. (CO4, K2)
20.	(a)	Justify the importance of paperless banking in present scenario. (CO5, K5)
	(b)	How does CSR affects banks? (CO5, K5)
		4 R3099

Explain the objects of banking ombudsman scheme. (CO5, K5)

15.

(a)

Sub. Code 641NM1

M.B.A. (General) DEGREE EXAMINATION, APRIL – 2025

Management

NME : PSYCHOLOGY FOR MANAGING SELF AND OTHERS

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

Answer all the objective questions by choosing the correct.

1. Psychology is the scientific study of: (CO1, K2)

- (a) Philosophy
- (b) Human behavior and mental processes
- (c) Ethics
- (d) Economics
- 2. Which method involves collecting data from a large group of people at one time? (CO1, K2)
 - (a) Case study
- (b) Observation
- (c) Survey
- (d) Experiment
- 3. According to TA, the "Adult" ego state is characterized by: (CO2, K3)
 - (a) Impulsive and emotional
 - (b) Rational and logical
 - (c) Nurturing and caring
 - (d) Demanding and critical

4.	Whicomi	ch type of "stroke" refers to munication?	nonverbal (CO2, K3)				
	(a)	Positive verbal (b) Negative verba	l				
	(c)	Positive nonverbal (d) Negative nonve	erbal				
5.	Asse	ertiveness involves:	(CO3, K1)				
	(a)	Avoiding conflict at all costs					
	(b)	Expressing your needs directly and resp	ectfully				
	(c)	Being overly aggressive and dominating	g				
	(d)	Passively accepting the needs of others					
6.	The inclu	importance of assertiveness in organides:	izational life (CO3, K1)				
	(a)	Avoiding responsibility for your work					
	(b)	Effectively expressing concerns and idea	as				
	(c)	Allowing others to take advantage of yo	u				
	(d)	Putting your needs above the needs of o	thers				
7.	Beha	avior modification refers to:	(CO4, K6)				
	(a)	Unconsciously changing behavior patter	rns				
	(b)	Applying techniques to deliberately cha	nge behavior				
	(c)	Blaming individuals for negative behaviors					
	(d)	Accepting all behaviors without interve	ntion				
8.	Posi	tive reinforcement involves:	(CO4, K6)				
	(a)	Punishing desired behaviors					
	(b)	Introducing a desirable consequence behavior	following a				
	(c)	Removing a desirable consequence behavior	following a				
	(d)	Ignoring a behavior entirely					
		2	R3100				

- 9. Managerial counselling emphasizes: (CO5, K5)
 - (a) Addressing employee concerns and providing support within the workplace setting
 - (b) Providing therapy for diagnosed mental health conditions
 - (c) Disciplinary action and handling employee performance issues
 - (d) Personal advice and life coaching
- 10. Which is NOT a type of managerial counselling? (CO5, K2)
 - (a) Career counselling
 - (b) Grief counselling
 - (c) Performance counselling
 - (d) Relationship counselling

Part B

 $(5 \times 5 = 25)$

Answer all the questions not more than 500 words each.

11. (a) Discuss the main differences between a clinical psychologist and an industrial organizational psychologist. (CO1, K2)

Or

(b) Explain the ethical considerations involved in conducting psychological research studies. (CO1, K2)

Or

12. (a) Explain the three ego states (Parent, Adult, Child) in Transactional Analysis and provide examples of how they manifest in behavior. (CO2, K3)

Or

(b) Discuss the concept of life scripts in TA and how they can impact individual choices and behaviors.

(CO2, K3)

R3100

13. (a) Describe the different types of non-assertive, assertive and aggressive communication styles. Provide examples of each. (CO3, K1)

Or

(b) Discuss the benefits of developing assertiveness skills in both personal and professional life. (CO3, K1)

Or

14. (a) Explain the key differences between positive reinforcement and negative reinforcement. Provide examples of how each can be used to modify behavior. (CO4, K6)

Or

- (b) Discuss the limitations and ethical considerations of using punishment as a behavior modification technique. (CO4, K6)
- 15. (a) Describe the key differences between managerial counselling and psychotherapy. (CO5, K5)

Or

(b) Explain the role of active listening in effective managerial counselling. (CO5, K5)

Part C $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Compare and contrast two different research methods used in psychology, such as experiments and surveys. Discuss the strengths and weaknesses of each method and their suitability for investigating specific research questions in organizational psychology. (CO1, K2)

Or

R3100

- (b) Discuss the impact of nature versus nurture on human behavior. Explain how both biological and environmental factors contribute to shaping our thoughts, emotions, and actions. (CO1, K2)
- 17. (a) Describe a hypothetical situation involving a conflict between two colleagues within a team. Using the principles of Transactional Analysis, analyze the potential ego states at play in the interaction, analyze the transactional patterns, and suggest strategies for resolving the conflict effectively. (CO2, K3)

Or

- (b) Evaluate the strengths and limitations of Transactional Analysis (TA) as a tool for improving self-awareness and communication. Discuss the potential benefits and drawbacks of utilizing TA in various organizational settings. (CO2, K3)
- 18. (a) Describe a situation where you might need to assert yourself in a professional setting. Develop a specific plan outlining how you would approach the situation using assertive communication techniques. (CO3, K1)

Or

- (b) Research and report on the growing trend of mindfulness and its potential benefits for developing assertiveness skills and navigating challenging communication situations the workplace. (CO3, K1)
- 19. (a) Evaluate the ethical considerations involved in using various behavior modification techniques. Discuss the potential limitations and potential for misuse of these techniques, and propose strategies for ensuring their ethical and responsible application in different settings. (CO4, K6)

Or

R3100

(b) Imagine you are working with a child experiencing a specific undesirable behavior. Apply your understanding of operant conditioning principles to design a behavior modification plan that utilizes positive reinforcement strategies to encourage desired behaviors and discourage negative ones.

(CO4, K6)

20. (a) Describe a hypothetical scenario where an employee approaches you, their manager, seeking guidance and support due to work-related challenges impacting their performance. Explain how you would utilize active listening skills and appropriate communication strategies to provide effective managerial counselling in this situation, while recognizing the limitations of your role and the potential need for additional resources or referrals.

(CO5, K2)

Or

(b) Research and report on different types on employee assistance programs (EAPs) offered by organizations. Discuss the benefits of EAPs for employees facing work-related challenges and their potential contribution to employee well-being and overall organizational effectiveness. (CO5, K2)

R3100

Sub. Code 645NM1

M.B.A. DEGREE EXAMINATION, APRIL - 2025

Tourism Management

NME — BASICS OF TOURISM

		(CI	BCS - 2022	onwar	ds)
Time	e:3 F	Hours			Maximum : 75 Marks
			Part A		$(10 \times 1 = 10)$
Ans	swer a	all the follow	ving objectiv		questions by choosing
1.	Rail	ways were ir	ntroduced in	the —	
	(a)	$17^{ m th}$	(b)	$18^{\rm th}$	
	(c)	$19^{ m th}$	(d)	20^{th}	
2.		opening of ated travel f			n greatly (CO1, K1)
	(a)	1669	(b)	1769	
	(c)	1869	(d)	1969	
3.		ch of the follourist destin	_		not included in the top (CO2, K1)
	(a)	China	(b)	Italy	
	(c)	Austria	(d)	India	

4.	Traveling for the purpose of bodily health and well being is an example of (CO2, K1)						
	(a)	Physical motivator					
	(b)	Cultural motivator					
	(c)) Interpersonal motivator					
	(d) Status and prestige						
5.	Which of the following is not a religious tourist destination? (CO3, K1)						
	(a)	Vatican	(b)	Mecca			
	(c)	Machu Pichu	(d)	Lourdes			
6.	Documents issued by tour operators in exchange for which travellers receive pre-paid accommodation sightseeing, meals etc. are called (CO2, K1)						
	(a)	Coupons	(b)	Charter			
	(c)	Folder	(d)	Itinerary			
7.	The Derbyshire Baptist preacher who started a travel agency business was (CO1, K1)						
	(a)	George Pullman	(b)	Thomson Wood			
	(c)	Thomas Cook	(d)	Capt. Middleton			
8.	Identify the odd one out (CO3, K2)						
	(a)	IATA	(b)	TAAI			
	(c)	ASTA	(d)	ABTA			
9.	Identify the odd one out (CO3, K2)						
	(a)	WTO	(b)	PATA			
	(c)	SST	(d)	ICAO			
10.	Which of the following is an established travel trade fair? (CO4, K2)						
		ITB	(b)	UNESCO			
	(a)						
	(a) (c)	UNDP	(d)	UNEP			

Part B $(5 \times 5 = 25)$

Answer all the questions not more than 500 words each.

11. (a) What are the main forms of tourism? (CO1, K1)

Or

- (b) What are travel motivators? Explain with examples. (CO1, K1)
- 12. (a) Highlight the structure of the tourism industry and list out direct, indirect and support structures.

 (CO2, K2)

Or

- (b) Discuss Butler's Tourism Area Life Cycle (TALC) model. (CO2, K3)
- 13. (a) Analyse the challenges posed by seasonality in the tourism sector. (CO3, K5)

Or

- (b) Describe Doxey's Irridex Index Model. (CO3, K4)
- 14. (a) Highlight the role and functions of FHRAI. (CO2, K2)

Or

- (b) Write a note on the Ministry of tourism. (CO2, K2)
- 15. (a) Critically analyse accommodation facilities in famous tourist destinations of India. (CO4, K5)

Or

(b) Examine the positive impact of tourism development on the economy and society of a region.

(CO4, K4)

R3101

Part C $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) What are the current trends in domestic and global tourism? (CO3, K1)

Or

- (b) What do you feel is the standard of the basic components of tourism in India? (CO3, K1)
- 17. (a) Evaluate the impact of tourism on a region or country. (CO2, K6)

Or

- (b) Analyse how tourism planning in India has resulted in its development and promotion. (CO3, K5)
- 18. (a) Evaluate the role of International organisations in the development of tourism. (CO4, K6)

Or

- (b) Discuss the efforts of various national tourism organisation in promoting Indian tourism. (CO4, K4)
- 19. (a) Highlight the scope of MICE tourism in India. (CO5, K2)

Or

- (b) Discuss case studies in International tourism. (CO5, K4)
- 20. (a) Evaluate the ideals of Responsible tourism. (CO5, K6)

Or

(b) Analyse the scope for Alternate tourism. (CO5, K5)

R3101

Sub. Code 646NM1

M.B.A. DEGREE EXAMINATION, APRIL - 2025.

Disaster Management

NME: INTRODUCTION TO DISASTER MANAGEMENT

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Which phase is NOT part of the disaster management cycle? (CO1, K2)
 - (a) Mitigation
- (b) Response
- (c) Reconstruction
- (d) Recovery
- 2. What is the main objective of financial agreements for disaster management? (CO1, K2)
 - (a) To reduce the costs of industrial activities
 - (b) To ensure funding for disaster preparedness, response, and recovery
 - (c) To promote international trade
 - (d) To expand urban infrastructure
- 3. What is the primary consequence of ozone depletion?

(CO2, K2)

- (a) Enhanced greenhouse effect
- (b) Increased volcanic activity
- (c) Higher UV radiation levels
- (d) More intense El Niño events

	(a)	Drought	(b)	Earthquake			
	(c)	Flash Flood	(d)	Avalanche			
5.	What is a primary consequence of a biological disaster? (CO3, K2)						
	(a)						
	(b)						
	(c)	Radiological expo					
	(d) Spread of infectious diseases						
6.	What is a common cause of water pollution? (CO3, K2)						
	(a)	Industrial runoff	` ′	<u> </u>			
	(c)	Soil erosion	(d)	Coastal erosio	n		
7.	Which of the following factors does NOT directly affect the scale of disaster damage? (CO4, K2)						
	(a)	Social Status	` /	Habitation Pa	ttern		
	(c)	Type of Disaster	(d)	Accessibility			
8.	The success of mitigation measures is most directly influenced by: (CO4, K2)						
	(a)	Geographic Locat	tion				
	(b)) Economic Resources					
	(c)	(c) Preparation and Communication					
	(d)	(d) Technological Advancements					
9.	Capability in disaster management refers to: (CO5, K2)						
	(a)	a) The ability to respond effectively to disasters					
	(b)	(b) The likelihood of disasters occurring					
	(c)	(c) The level of physical damage caused by disasters					
	(d) The speed of recovery from disasters						
10.	Which organization typically plays a major role in disaster rehabilitation efforts? (CO5, K2)						
	(a)	WHO	(b)	Red Cross			
	(c)	IMF	(d)	NASA			
			2		R3102		

Answer all questions not more than 500 words each.

11. (a) Explain the relationship between hazard, risk, and vulnerability in disaster management. (CO1, K3)

Or

(b) Discuss the role of financial agreements in supporting disaster management activities.

(CO1, K3)

12. (a) Explain the difference between a flood and a flash flood. (CO2, K3)

Or

- (b) Assess the impact of storm surges on coastal communities. (CO2, K4)
- 13. (a) Assess the impact of radiological disasters on public health. (CO3, K4)

Or

- (b) Evaluate the impact of deforestation on biodiversity. (CO3, K4)
- 14. (a) Discuss how habitation patterns can influence the scale of damage in a disaster. (CO4, K3)

Or

- (b) Explain the impact of technological advancements on disaster prediction and preparation. (CO4, K4)
- 15. (a) Explain the significance of preparedness in the overall disaster management framework. (CO5, K4)

Or

(b) Discuss the challenges faced by rehabilitation organizations in post-disaster scenarios. (CO5, K4)

R3102

Answer all questions not more than 1,000 words each.

16. (a) Explain the effectiveness of the disaster management cycle in addressing various types of disasters. (CO1, K5)

Or

- (b) Illustrate the effectiveness of the national disaster management framework in India. Discuss its strengths and weaknesses. (CO1, K5)
- 17. (a) Discuss the importance of public awareness and education in disaster risk reduction. (CO2, K4)

Or

(b) Discuss the challenges and opportunities in implementing policies for ozone layer protection. (CO2, K4)

18. (a) Critically evaluate the global strategies for preventing and managing nuclear disasters.

(CO3, K5)

Or

- (b) Evaluate the effectiveness of reforestation programs in mitigating deforestation impacts. (CO3, K4)
- 19. (a) Explain the role of social and economic factors in determining the impact of disasters on different communities. (CO4, K5)

Or

- (b) Discuss the impact of climate change on disaster mitigation measures and the necessary adaptations. (CO4, K5)
- 20. (a) Discuss in detail about the impact of early warning systems on reducing the severity disasters.(CO5, K4)

 Or
 - (b) Evaluate the challenges and opportunities in implementing disaster risk reduction policies at the regional level. (CO5, K5)

R3102

Sub. Code 652NM1

M.B.A. DEGREE EXAMINATION, APRIL 2025.

International Business

NME - GLOBAL ENTREPRENEURSHIP

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

 $\mathbf{Part}\,\mathbf{A} \qquad (10 \times 1 = 10)$

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

1. Innovation is defined as:

(CO1, K2)

- (a) the commercialization of a new product or process.
- (b) the invention of a new product or process.
- (c) a new product or process idea.
- (d) the implementation of a new production method.
- 2. According to Horovitz (1997), a true entrepreneur is someone who: (CO1, K2)
 - (a) Knows the right people, can form effective teams, move quickly and deliver on plans
 - (b) Is a good team player, has an analytical mind, and is highly intelligent
 - (c) Enjoy social situations, is highly educated and from a wealthy background
 - (d) Is a natural introvert, usually has few professional connections, and is of limited academic ability

3. PES	T analysis is:	(CO2, K2)		
(a)	a broad framework to help managers the environment in which their business			
(b)	a checklist to ask how political, economic or technological developments can include industry and a company.	,		
(c)	a checklist for forecasting political, strategic or technological factors.	economic,		
(d)	a framework for strategic analysis of in external environment.	nternal and		
	al policy refers to the policy of governmention, public expenditure and	t regarding (CO2, K2)		
(a)	Public debt			
(b)	Budgets			
(c)	Policies			
(d)	Deposits			
	important guidelines for monetizing of toutlined below:	the product (CO3, K3)		
(a)	Emphasizing customer experience			
(b)	Long-term thinking process			
(c)	Creative in approach			
(d)	All of the above			
•	Special Economic Zone (SEZ) concept was first introduced in (CO3, K3)			
(a)	China			
(b)	Japan			
(c)	India			
(d)	South Korea			
	2	R3103		

7.		ch of the following attitudes is not generally ciated with successful entrepreneurship? (CO4, K2)		
	(a)	Competition and co-operation		
	(b)	Desire to influence others		
	(c)	Innovation and product improvement		
	(d)	Status quo in business		
8.	A flo	pating exchange rate (CO4, K2)		
	(a)	is determined by the national governments involved		
	(b)	remains extremely stable over long periods of time		
	(c)	remains extremely unstable over long periods of time		
	(d)	is allowed to vary according to market forces		
9.	Why is it important to have an environmental business objective? (CO5, K3)			
	(a)	To address government targets		
	(b)	To reduce staff turnover		
	(c)	To keep customer base		
	(d)	To be competitive		
10.	Com	npetitive advantage can be best described as (CO5, K3)		
	(a)	Increased efficiency		
	(b)	What sets an organisation apart?		
	(c)	A strength and the organisations		
	(d)	Intangible resources		
		3 R3103		

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Explain with examples, the salient characteristics of successful entrepreneurs. (CO1, K2)

Or

- (b) Summarise the various drivers of innovation. (CO1, K2)
- 12. (a) Explain the elements of economic environment. (CO2, K2)

Or

- (b) Discuss the role of culture in influencing the business environment. (CO2, K2)
- 13. (a) Discover the need for the development of the new product. (CO3, K3)

Or

- (b) Identify the various stages of market exploration. (CO3, K2)
- 14. (a) Outline the features of Smithsonian agreement. (CO4, K2)

Or

(b) Compare the intervention and sterilization adopted by monetary authorities. (CO4, K2)

4

R3103

15. (a) Compare and contrast the project report and project proposal. (CO5, K5) Or (b) Assess the entrepreneurial process of launching a (CO5, K5) Part C $(5 \times 8 = 40)$ Answer all questions not more than 1,000 words each. Explain why entrepreneurship is so vital for a 16. (a) developing country like India. (CO1, K2) Or (b) Briefly explain the ways and means to improve creativity in an organization. (CO1, K2) 17. Classify the psychological forces influencing the (a) entrepreneurship. (CO2, K2)Or (b) Evaluate the legal factor affecting their business. (CO2, K2) 18. Develop and analyze alternative business models (a) (CO3, K3) for new entrepreneurial ventures. Or (b) Construct the new venture creation process. (CO3, K3) 19. (a) Explain the evolution of International Monetary (CO4, K2) System. Or Compare the fixed exchange rate system and (b) floating exchange rate system by describing their features. (CO4, K2) R3103 5

20. (a) Evaluate the clearances and documents needed for establishing a business of your choice. (CO5, K5)

Or

(b) Explain the components of project proposal by considering your dream business project. (CO5, K5)

Sub. Code 701NM1

(CO1, K1)

M.A. DEGREE EXAMINATION, APRIL - 2025

English

NME – EFFECTIVE COMMUNICATION AND SOFT SKILLS

(CBCS - 2022 onwards)

Time: 3 Hours		Maximum: 75 Marks
	Part A	$(10 \times 1 = 10)$
	g objective t e correct op	type questions by choosing tion.

1. Which of the following is not a exam of verbal

- communication?
 (a) telephone (b)
 - (b) words
- (c) writing
- (d) interview
- 2. The picture without dialogues is an example of which type of communication? (CO1, K1)
 - (a) face to face
- (b) verbal
- (c) inter personal
- (d) non-verbal
- 3. Which of the following is a barrier to effective communication? (CO2, K2)
 - (a) information richness
 - (b) clarity of message
 - (c) active listening
 - (d) cultural differences
- 4. ———— refers to pitch, loudness, intonation, and tempo (CO2, K2)
 - (a) touches
- (b) prosody
- (c) gesture
- (d) haptics

5.	Dial	Dialogic listening is also known as ————.					
					(CO3, K2)		
	(a)	therapeutic	(b)	appreciative			
	(c)	relational	(d)	evaluative			
6.	Mos	st of us use ———		and ———			
	to w	ork, when we spea	ak.		(CO3, K3)		
	(a)	words and gestu	res				
	(b)	gestures and boo	ly lang	guage			
	(c)	body language a	nd pos	ture			
	(d)	posture and eye	gazing				
7.		——— pertains	to "wh	nat to say" aspec	t of the group		
	disc	ussion.			(CO4, K1)		
	(a)	group behavior					
	(b)	appearance					
	(c)	manners					
	(d)	knowledge of the	e conte	nt			
8.		wing direction to	a g	roup requires t	_		
	qua	•			(CO4, K1)		
	, ,	leadership					
		good appearance					
		open body langu	_				
	(d)	communication s	skills				
9.		As a means of communication e-mail have features of the					
	imn	nediacy of both	-	and	(COE V2)		
	(a)	reading, receivin	าฮ		(CO5, K3)		
	(b)	writing, sending	_				
	(c)	calling, receiving					
	(d)	receiving, sendir					
10	(62)		_	· · · · · · · · · · · · · · · · · · ·	1 - 3371		
10.			_	cific group of peo for general publi	_		
	(a)	notice, memo	(b)	memo, circular			
	(c)	notice, circular	(d)	circular, notice			
			2		R3104		
			=				

Part B $(5 \times 5 = 25)$

Answer all the questions not more than 500 words each.

11. (a) Propose the principles of Effective Communication. (CO1, K1)

Or

(b) Discuss the flow of communication and it's benefits. (CO1, K3)

12. (a) Explain the expression of agreement and disagreement. (CO2, K4)

Or

- (b) Give an advice to your friend regarding government exams and jobs. (CO2, K2)
- 13. (a) What is the use of Audio Visual Aids? (CO3, K1)

Or

- (b) How to make an Impressive Presentation? (CO3, K4)
- 14. (a) How to avoid interference and redness of language? (CO4, K4)

Or

- (b) Explain Leadership qualities. (CO4, K5)
- 15. (a) Illustrate the advantage and disadvantage of E-mail. (CO5, K5)

Or

(b) Types and uses of Memo and Circular. (CO5, K4)

R3104

Answer all the questions not more than 1000 words each.

16. (a) Discuss the barriers of effective communication and prose how to get rid of them. (CO1, K3)

Or

(b) Discuss the levels and types of communication. (CO1, K4)

17. (a) Define Dos and Don'ts of telephone conversation with example. (CO2, K6)

Or

- (b) Show the conversation skill to a friend, congratulating him on his getting a good job in the foreign country. (CO2, K2)
- 18. (a) Prepare an introduction, body and conclusion on the given topic (CO3, K2)
 - Water Scarcity and conservation.

Or

- (b) Describe the structure, language and delivery of the presentation. (CO3, K3)
- 19. (a) Compare and analyze the given topic (CO4, K2)
 - (i) Parents and Grand Parents
 - (ii) Learning to read (vs.) Learning to write.

Or

- (b) Define peer group and explain five benefits of peer group co-operation. (CO4, K3)
- 20. (a) Write a letter to the editor of the local newspaper complaining about irregular water supply on the one hand and wastage of water and the other.

 (CO5, K4)

Or

(b) Explain how to write a resume step by step by and mention their types. (CO5, K5)

R3104

Sub. Code 720NM2

B.Sc. DEGREE EXAMINATION, APRIL - 2025

Physical Education

NME: FIRST AID AND REHABILITATION

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

 $\mathbf{Part}\,\mathbf{A} \qquad (10 \times 1 = 10)$

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

- 1. Which of the following is a cause of malnutrition? (CO1, K2)
 - (a) Lack of balanced diet
 - (b) Excessive exercise
 - (c) Overhydration
 - (d) Excess sleep
- 2. Aim of physical education is

(CO1, K1)

- (a) To improve mathematical skills
- (b) To develop physical fitness and motor skills
- (c) To prevent social interactions
- (d) To limit physical activity
- 3. Recreational activities are essential because they: (CO2, K2)
 - (a) Help in physical and mental relaxation
 - (b) Increase academic pressure
 - (c) Lead to social isolation
 - (d) Are only meant for children

4.		lth education in scl			(CO2, K2)
	(a)	Physical fitness,		•	
	(b)	Reducing exam p			
	(c)			academic subjects	
	(d)	Avoiding discussi	ons a	bout nealth	
5.	Whi	ich of the following	is a li	festyle disorder?	(CO3, K1)
	(a)	Malaria	(b)	Tuberculosis	
	(c)	Diabetes	(d)	Common cold	
6.	Whi	ich of the follow	ing i	s a communicab	ele disease? (CO3, K2)
	(a)	Obesity	(b)	Hypertension	
	(c)	Tuberculosis	(d)	Diabetes	
7.	A fr	acture is a:			(CO4, K2)
	(a)	Tear in the skin			
	(b)	Break in the bone	е		
	(c)	Sprain in the mu	scle		
	(d)	Bruise on the boo	ly		
8.	Whi	ich nutrient is esse	ntial	for muscle growth	and repair? (CO4, K1)
	(a)	Carbohydrates	(b)	Proteins	
	(c)	Fats	(d)	Vitamins	
9.	A de	eficiency of Vitamir	n D lea	ads to:	(CO5, K2)
	(a)	Scurvy	(b)	Rickets	
	(c)	Night blindness	(d)	Beriberi	
10.	Wha	at is the main caus	e of ob	pesity?	(CO5, K2)
	(a)	Lack of physical a	activit	ty	
	(b)	Drinking excess v	vater		
	(c)	Sleeping too muc	h		
	(d)	Eating only veget	ables		
			2	Γ	R3105
				L	

Part B

 $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) Define health education and explain its significance. (CO1, K3)

Or

- (b) List the objectives of health education. (CO1, K3)
- 12. (a) What are the causes and prevention of malnutrition? (CO2, K3)

Or

- (b) Describe the importance of personal hygiene. (CO2, K3)
- 13. (a) Define physical education and explain its aims. (CO3, K2)

Or

- (b) Discuss the scope and importance of physical education. (CO3, K2)
- 14. (a) What are the benefits of physical fitness? (CO4, K4)

Or

- (b) List and explain the components of physical fitness. (CO4, K4)
- 15. (a) Explain the role of health education in schools. (CO5, K4)

Or

(b) What are the safety measures in schools and playfields? (CO5, K4)

R3105

Part C

 $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Discuss the importance of health education in preventing lifestyle disorders. (CO1, K4)

Or

- (b) Explain the role of schools in promoting health and safety education. (CO1, K4)
- 17. (a) Explain the development of ancient and modern Olympics. (CO2, K3)

Or

- (b) Discuss the benefits of recreational activities in maintaining a healthy lifestyle. (CO2, K3)
- 18. (a) Discuss the importance of food and nutrition in maintaining health. (CO3, K3)

Or

- (b) Explain the classification of food and its constituents. (CO3, K3)
- 19. (a) Define communicable diseases and explain their prevention methods. (CO4, K3)

Or

- (b) Discuss the causes and treatment of muscular sprains and fractures. (CO4, K4)
- 20. (a) Describe the causes, symptoms, and prevention of diabetes and obesity. (CO5, K3)

Or

(b) Explain the significance of first aid and its principles. (CO5, K3)

R3105

Sub. Code 724NM2

B.Sc. DEGREE EXAMINATION, APRIL - 2025

Yoga

NME: APPLIED YOGA

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. Which of the following is NOT a function of Pranayama? (CO1, K1)
 - (a) Improves lung capacity
 - (b) Reduces stress and anxiety
 - (c) Strengthens core muscles
 - (d) Enhances oxygen supply
- 2. Which Koshia represents the state of pure consciousness and bliss? (CO1, K2)
 - (a) Annamaya Kosha
 - (b) Pranamaya Kosha
 - (c) Vijnanamaya Kosha
 - (d) Anandamaya Kosha
- 3. Which yoga practice is particularly beneficial for managing diabetes? (CO2, K2)
 - (a) Bhujangasana (b) Trikonasana
 - (c) Surya Namaskar (d) All of the above

COIII	crol?		(CO1, K2
(a)	Excessive water	intake	2
(b)	High-stress level	\mathbf{s}	
(c)	Overconsumption	n of ca	rbohydrates
(d)	Weak bone densi	ty	
	ch aspect of your charge of the body?	ga is	primarily associated with (CO3, K1
(a)	Asana	(b)	Shat Kriyas
(c)	Mudras	(d)	Dharana
Wha	at is the primary go	oal of l	Dharana in yoga? (CO3, K2
(a)	Strengthening m	uscles	3
(b)	Enhancing digest	tion	
(c)	Concentration ar	nd mer	ntal focus
(d)	Detoxifying the b	ody	
	ch type of food is c diet?	consid	lered the most beneficial in a (CO4, K1
(a)	Rajasic	(b)	Tamasic
(c)	Sattvic	(d)	Processed
	ording to Ayuryed elements of fire an		ich dosha is associated with er? (CO4, K3
(a)	Vata	(b)	Pitta
(c)	Kapha	(d)	Prana
Wha	at is a common syn	nptom	of techno-stress? (CO5, K2
(a)	Increased flexibil	lity	
(b)	Digital eye strair	ı	
(c)	Lower heart rate		
(d)	Improved sleep		

10.		ch yoga practice is Particularly helpful in reducing as caused by excessive screen time? (CO5, K2)	
	(a)	Trataka (gazing meditation)	
	(b)	Surya Namaskar	
	(c)	Chakrasana	
	(d)	Navasana	
		Part B $(5 \times 5 = 25)$	
	Ansv	ver all questions not more than 500 words each.	
11.	(a)	Explain the Psycho-physiological benefits of Pranayama. (CO1, K3)	
		Or	
	(b)	What are the functional values of Panchakosas in yoga? (CO1, K3)	
12.	(a)	List the common symptoms and causes of migraine. (CO2, K3)	
		Or	
	(b)	How does yoga help in managing diabetes? (CO2, K3)	
13.	(a)	Define stress according to yoga and describe its symptoms. (CO3, K4)	
		Or	
	(b)	How does practicing Dhyana (Meditation) help in personality development? (CO3, K3)	
14.	(a)	Differentiate between Rajasic, Tamasic and Sattvic food. (CO4, K4)	
		Or	
	(b)	What is the significance of Mitahara in yogic diet? (CO4, K3)	
15.	(a)	Explain the major causes and symptoms of technostress. (CO5, K3)	
		Or	
	(b)	How can yoga help in reducing the effects of excessive screen time on mental health? (CO5, K3)	
		3 R3106	

Part C

 $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Analyze the role of Chakras in maintaining physical and mental well-being. (CO1, K5)

Or

- (b) Evaluate the impact of Bandha and Mudra on the nervous system. (CO1, K5)
- 17. (a) Discuss the causes, symptoms, and yogic management of thyroid disorders. (CO2, K4)

Or

- (b) Assess the effectiveness of yoga in managing obesity and metabolic disorders. (CO2, K5)
- 18. (a) Compare and contrast different stress management techniques in yoga. (CO3, K4)

Or

- (b) How does Ishwara Pranidhana contribute to emotional stability and spiritual growth? (CO3, K4)
- 19. (a) Design a weekly diet plan based on the yogic principles of Ahara for a healthy lifestyle. (CO4, K4)

Or

- (b) Critically examine the importance of diet according to body constitution (Vata, Pitta, Kapha). (CO4, K4)
- 20. (a) Propose a structured yoga routine to manage techno-stress in corporate professionals. (CO5 K5)

Or

(b) Justify the application of yoga for skill enhancement in modern workplaces. (CO5, K5)

R3106

Sub. Code 741NM1

M.Ed. DEGREE EXAMINATION, APRIL – 2025.

EDUCATION

$\begin{array}{c} {\bf NME: PSYCHOLOGY\ OF\ LEARNING\ AND\ HUMAN} \\ {\bf DEVELOPMENT} \end{array}$

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

1. Educational psychology is a science of (CO1, K2)

- (a) Educational Planning
- (b) Educational Principles
- (c) Human behavior
- (d) None of the these
- 2. How many types of Psychology are there? (CO1, K2)
 - (a) 1

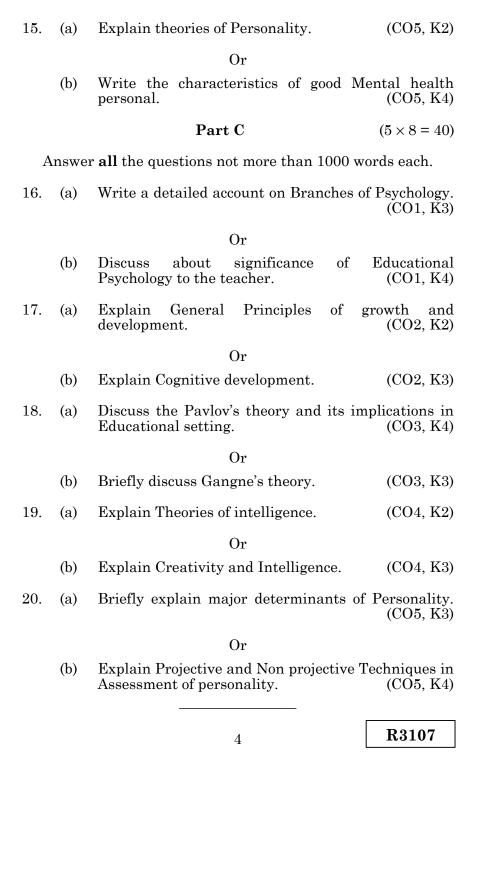
(b) 2

(c) 3

- (d) 4
- 3. Stages of Psycho social development: Basic trust versus mistrust (CO2, K3)
 - (a) Birth to 1 Year
 - (b) 1 to 3 Years
 - (c) 3 to 6 Years
 - (d) 6 to 11 Years

(a)	Emotions	
(b)	Body parts	
(c)	Brain Development	
(d)	None of the above	
The	simplest Kind of Learning is called	(CO3, K2)
(a)	Modeling	
(b)	Conditioning	
(c)	Observational Learning	
(d)	Concept Learning	
Who Peri	en something previously Learned formance on Learning in a new situation	
(a)	Positive transfer of Learning	
(b)	Negative transfer of Learning	
(c)	Zero transfer of Learning	
(d)	None of the above	
	range of IQ in the people with mode	rate mental (CO4, K3)
(a)	10 to 19 (b) 20 to 34	
(c)	35 to 54 (d) 55 to 74	
Whi	ich one of these is first phase of creativ	te thinking? (CO4, K2)
(a)	Incubation	
(b)	Illumination	
(c)	preparation	
(1)	None of the above	
(d)	_	R3107
(a)		_

9.	Who	propagated two factor theory of personality? (CO5, K2)
	(a)	All part (b) Carrell
	(c)	Spearman (d) Eyenck
10.	Psycl disor	hoanalysis was developed to treat which mental cder? (CO5, K3)
	(a)	Hypochondriasis (b) Depression
	(c)	Neurosis (d) Hysteria
		Part B $(5 \times 5 = 25)$
A	nswe	r all the questions not more than 500 words each.
11.	(a)	Explain the Methods of Psychology. (CO1, K3)
		Or
	(b)	Describe the scope of Educational Psychology (CO1, K2)
12.	(a)	Differentiate between growth and Development. (CO2, K4)
		Or
	(b)	Why Adolescence Period is a critical period? Explain.
		(CO2, K4)
13.	(a)	Explain about individual differences in Learning. (CO3, K3)
		Or
	(b)	Briefly discuss about Trial and Error theory. (CO3, K4)
14.	(a)	Discuss the various types of Motivation. (CO4, K3)
		\mathbf{Or}
	(b)	Differentiate Convergent thinking and Divergent thinking. (CO4, K4)
		3 R3107



Sub. Code 743NM1

M.Ed. (Special Education) DEGREE EXAMINATION, APRIL - 2025

Visual Impairment

NME - INTRODUCTION TO DISABILITIES

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. According to the RPwD Act, which of the following is NOT considered a type of disability? (CO1, K1)
 - (a) Hearing impairment
 - (b) Visual impairment
 - (c) Mental illness
 - (d) Temporary physical injury
- 2. It is a physical, mental, sensory, or social impairment that can limit a person's ability to participate in society. (CO1, K2)
 - (a) Disability
 - (b) Impairment
 - (c) Handicapped
 - (d) Under privileged

3.		ch of the ory disa	following is Nobilities?	OT typicall	y a cha	racteristic of (CO2, K3)
	(a)	Difficul	lty in seeing or	hearing		
	(b)	Difficul	ty in walking o	r running		
	(c)	Limited	d ability to com	municate v	erbally	
	(d)	Depend glasses	lence on assisti	ve devices	like he	aring aids or
4.	Age-	related	hearing loss	is referre	d as _	(CO2, K1)
	(a)	Presby	cusis			
	(b)	Mening	gitis			
	(c)	Cerum	en impaction			
	(d)	Audito	ry nerve hearin	g loss		
5.		-	ome is a genetion on extra copy of			
	(a)	20	(b)	21		
	(c)	22	(d)	23		
6.		forcing recting	only the desire undesirable			ignoring or called as (CO3, K3)
	(a)	Shapin	g			
	(b)	Modeli	ng			
	(c)	Positiv	e reinforcemen	t		
	(d)	Differe	ntial reinforcen	nent		
			2		[R3108

7.		ch of the following is not the type of physical bility? (CO4, K1)
	(a)	Spina bifida
	(b)	Multiple sclerosis
	(c)	Autism Spectrum Disorder
	(d)	Cerebral palsy
8.	It is	the most common type of Cerebral Palsy. (CO4, K3)
	(a)	Spastic (b) Dyskinetic
	(c)	Ataxic (d) Mixed
9.	It is	one of major cause for multiple disability. (CO5, K2)
	(a)	Encephalitis (b) TORCH infections
	(c)	Poliovirus (d) Chlamydia trachomatis
10.		nultiple disability can potentially affect a person's ity to (CO5, K1)
	(a)	Communicate
	(b)	Move and learn
	(c)	Perform daily activities
	(d)	All the above
		Part B $(5 \times 5 = 25)$
	Ans	wer all questions not more than 500 words each.
11.	(a)	Brief the concept and definition of Disabilities. (CO1, K1)
		Or
	(b)	Write a short note on Thalassemia. (CO1, K1)
		3 R3108

12. (a) As a Special Educator, how will you identify students with visual problems in inclusive class room? (CO2, K3)

Or

- (b) List down the characteristics of children with hearing difficulties. (CO2, K2)
- 13. (a) Enumerate the significance of Early Intervention for young children with intellectual disabilities. (CO3, K2)

Or

- (b) Mention any five preventive methods for intellectual disability. (CO3, K2)
- 14. (a) State any five characteristics of physical disability. (CO4, K2)

Or

- (b) Mention the role of teachers in making adaptations in the educational programmes for students with physical disability. (CO4, K2)
- 15. (a) Give the definition and possible combinations of multiple disability. (CO5, K1)

Or

(b) Enumerate the implications of multiple disability in the day to day activities. (CO5, K2)

R3108

Answer all questions not more than 1000 words each.

16. (a) Compare and contrast the three terms - Impairment, disability and Handicap with suitable examples. (CO1, K5)

Or

- (b) Enumerate the types of disabilities as per RPwD Act. (CO1, K2)
- 17. (a) Discuss the intervention and educational programmes available for children with hearing impairment. (CO2, K3)

Or

- (b) Analyse the causes and preventive measures for visual impairment. (CO2, K4)
- 18. (a) Explain the characteristics and causes of intellectual disability. (CO3, K2)

Or

- (b) Analyse the need for IEP for children with intellectual disability. (CO3, K4)
- 19. (a) Discuss the types and characteristics of physical disability. (CO4, K2)

Or

(b) Explain the therapeutic intervention strategies for individuals with physical disability. (CO4, K2)

R3108

20. (a) Summarise the causes and preventive methods of persons having Neurological impairments.(CO5, K6)

Or

(b) Discuss the need for appropriate intervention and educational programmes for the successful rehabilitation of students with multiple disability. (CO5, K2)

Sub. Code 813NM1

M.Sc. DEGREE EXAMINATION, APRIL – 2025 Yoga

NME: HEALTH EDUCATION AND FIRST AID

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. What is the primary aim of health education? (CO1, K2)
 - (a) To cure diseases
 - (b) To provide health knowledge and promote healthy behaviours
 - (c) To regulate healthcare institutions
 - (d) To enforce medical treatments
- 2. What is the primary objective of school health services?

(CO1, K2)

- (a) Providing first aid only
- (b) Ensuring the overall health and well-being of students
- (c) Conducting sports activities
- (d) Monitoring food supply in schools

3.	Which of the following is a major cause of malnutrition in India? (CO2, K2)				
	(a)	Overeating			
	(b)	Lack of physical activity			
	(c)	Poor dietary habits and food scarcity			
	(d)	High protein intake			
4.	Whic	ch communicable disease is caused by a virus?			
		(CO2,	K1)		
	(a)	Dysentery			
	(b)	Typhoid			
	(c)	AIDS			
	(d)	Malaria			
5.	Wha	t is the primary benefit of a balanced diet? (CO3,	K2)		
	(a)	Promotes weight gain			
	(b)	Maintains overall health and prevents diseases			
	(c)	Reduces the need for exercise			
	(d)	Increases sugar levels in the body			
6.		t is a major health risk associated with toba umption? (CO3,			
	(a)	Improved digestion			
	(b)	Strengthened immune system			
	(c)	Lung cancer and respiratory diseases			
	(d)	Reduced stress permanently			
		2 R310	9		

7.	Which type of fracture is characterized by a breaking through the skin? (CO						
	(a)	Simple fracture					
	(b)	Compound fracture					
	(c)	Greenstick fracture					
	(d)	Hairline fracture					
8.	Wha victi	t should you do first when assisting a drowning m? (CO4, K2)					
	(a)	Start CPR immediately in the water					
	(b)	Ensure your own safety before attempting rescue					
	(c)	Wait for professional rescuers before taking action					
	(d)	Give the victim food and water					
9.	9. What is the most important step in fire safety dur building fire? (COE						
	(a)	Run as fast as possible					
	(b) Use an elevator to escape quickly(c) Stay low to avoid smoke inhalation and exit safel						
	(d)	Wait inside until firefighters arrive					
10.	Which of the following is a primary cause of earthquakes?						
(CO5, I							
	(a)	Volcanic eruptions					
	(b) Tectonic plate movements						
	(c)	Heavy rainfall					
	(d)	Air pollution					
		3 R3109					

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) What are the guiding principles of health education? (CO1, K3)

Or

(b) Define health supervision and its importance.

(CO1, K3)

12. (a) List any three measures to prevent food adulteration. (CO2, K3)

Or

- (b) What is the importance of environmental sanitation in schools? (CO2, K3)
- 13. (a) Define dental hygiene and explain its importance.

(CO3, K3)

Or

- (b) What are the key principles of lifestyle management for maintaining good health? (CO3, K3)
- 14. (a) What are the basic rules of first aid? (CO4, K3)

Or

(b) Explain the importance of bandaging and splinting in first aid. (CO4, K3)

R3109

15. (a) What are the immediate steps to take during an earthquake? (CO5, K3)

Or

(b) Explain the importance of rehabilitation in disaster recovery. (CO5, K3)

Part C $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Explain the concept of health education and discuss its role in personal hygiene. (CO1, K4)

Or

- (b) Describe the dimensions of health and explain how they contribute to overall well-being. (CO1, K4)
- 17. (a) Explain the role of health education in schools and its impact on preventing communicable diseases.

(CO2, K4)

Or

- (b) Discuss the signs, symptoms, and prevention methods for any two communicable diseases prevalent in India. (CO2, K4)
- 18. (a) Discuss the effects of alcohol and tobacco on health.

 How can individuals prevent their harmful impacts?

 (CO3, K4)

Or

(b) Explain the role of a balanced diet in managing obesity and hypertension. (CO3, K4)

R3109

19. (a) Describe the concept of emergency care and discuss the steps to manage accidents and fractures effectively. (CO4, K4)

Or

- (b) Explain the first aid procedures for common emergencies like burns, insect bites and haemorrhages. (CO4, K4)
- 20. (a) Discuss the role of SDRF in emergency situations like floods and earthquakes. How do they provide immediate and long-term care? (CO5, K5)

Or

(b) Explain the impact of natural disasters such as fires, explosions, and famines on public health and the strategies used for rehabilitation. (CO5, K4)

R3109

Sub. Code 932NM1

M.L.I.Sc. DEGREE EXAMINATION, APRIL - 2025

Library and Information Science

NME: OPEN KNOWLEDGE SYSTEM

(CBCS - 2022 onwards)

Time: 3 Hours Maximum: 75 Marks

Part A $(10 \times 1 = 10)$

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

- 1. How should libraries be categorized? (CO1, K2)
 - (a) Public, Academic, Special, and National
 - (b) Public, Academic, and Personal
 - (c) Local, National, and International
 - (d) Public, National, and Specific
- 2. NDLI denotes. (CO1, K2)
 - (a) National Digital Library of India
 - (b) National Development Library of India
 - (c) National Depository of Library Resources in India
 - (d) National Digital Library Resources in India
- 3. The person who provides reference service is called. (CO1, K2)
 - (a) Chief librarian (b) Grade One librarian
 - (c) Deputy librarian (d) Reference librarian
- 4. What is "INFORPORT"? (CO2, K2)
 - (a) Subject Gateway of Indian Electronic Resources
 - (b) Information portal of Stanford University Library
 - (c) OCLC's federated search engine
 - (d) Information portal of MIT Library

5.	Shod	(CO2, K2)						
	(a)	e–journals	(b)	e-books				
	(c)	e-theses	(d)	e-newsletter				
6.	Zote	ro is a .			(CO3, K1)			
	(a)	(a) Budgeting Software						
	(b)	Data analysis Software						
	(c)	Reference Management Software						
	(d)	Citation Software						
7.	Impa	act factor is the.			(CO4, K2)			
	(a) Measurement of authorship							
(b) Measurement of impact								
	(d)	d) Measurement of journal						
8.	h–in	dex indicates the qu	of.	(CO4, K2)				
	(a)	Publisher	(b)	Author				
	(c)	Journal	(d)	Country				
9.	Which Boolean operator narrows a search in a database? (CO5, K2)							
	(a)	And	(b)	Or				
	(c)	Not	(d)	Truncation				
10.	Which remote access enables users to search across multiple electronic resources simultaneously? (CO5, K2)(a) Federated research(b) Open URL link							
	(c)	Proxy server						
	(d)	(d) IP Authentication						
			2		R3110			

Part B $(5 \times 5 = 25)$

Answer all questions not more than 500 words each.

11. (a) What do you understand source of formation? Explain characters of primary sources. (CO1, K2)

Or

- (b) Distinguished paid and open access resources with few examples. (CO1, K2)
- 12. (a) What do you understand non-documentary sources explain with examples? (CO2, K2)

Or

- (b) Discuss the advantages of open courseware. (CO2, K2)
- 13. (a) What is a Style Manual? (CO3, K1)

Or

- (b) Write the bibliography details of book and journal article. (CO3, K1)
- 14. (a) What is citation analysis? Discuss its importance. (CO4, K2)

Or

- (b) Expand the following. (CO4, K2)
 - (i) SCIE (ii) SSCI (iii) AHCI
- 15. (a) Write a sort note on Search Engine. (CO5, K2)

Or

(b) List out few plagiarisms' detection tool. (CO4, K2)

R3110

Part C

 $(5 \times 8 = 40)$

Answer all the questions not more than 1000 words each.

16. (a) Discuss the web-based services provided by university library. (CO1, K2)

Or

- (b) Discuss the role of librarian in university library. (CO1, K2)
- 17. (a) Discuss various categories of Information sources. (CO2, K2)

Or

- (b) Discuss in detail: Print resources in library. (CO2, K2)
- 18. (a) Why reference management tools are important for research? (CO3, K1)

Or

- (b) What do you mean "Bibliography" and References? (CO3, K1)
- 19. (a) Discuss the salient features of Scopus database. (CO4, K2)

Or

- (b) Discuss various types of plagiarism and how to avoid it. (CO4, K2)
- 20. (a) Discus various types of information searching techniques with examples. (CO5, K2)

Or

(b) Discuss role of search engines in information retrieval. (CO5, K2)

R3110