

R5413

Sub. Code

4534T4/  
941T

**M.A. INTEGRATED HOME SCIENCE / M.Sc.  
INTEGRATED MARINE BIOLOGY DEGREE  
EXAMINATION, APRIL – 2021**

**Fourth Semester**

(பொதுத் தமிழ் - தாள் 4) பண்டைய இலக்கியமும் நாடகமும்

(Common for M.A. Integrated Home Science/M.Sc., Integrated  
Marine Biology)

**(CBCS – 2019 onwards)**

Time : 3 Hours

Maximum : 75 Marks

பகுதி அ

(10 × 2 = 20)

அனைத்து வினாக்களுக்கும் விடையளி.

1. சிறுபாணாற்றுப்படை சுட்டும் நகரங்கள் இரண்டை எழுதுக.
2. வெள்ளிவிதியார் பாடலில் தலைவி, தலைவனிடம் யாரைத் தூதாக விடுக்கிறார்?
3. 'இம்மை மாறி மறுமை ஆயினும்' என்ற குறுந்தொகை பாடலில் தலைவி கூறும் செய்தி யாது?
4. பிசிராந்தையாரின் நண்பர் யார்?
5. திருமணநிகழ்வில் அளிக்கப்பட்ட விருந்துணவாக அகநானூறு எதனைச் சுட்டுகின்றது?
6. அரியவற்றுள் எல்லாம் அரிதாகத் திருக்குறள் சுட்டும் கருத்து யாது?
7. கற்கும் முறை பற்றி நாலடியார் கூறும் செய்தி யாது?

8. நீதிதேவன் மயக்கம் நாடகத்தின் மையப் பொருள் யாது?
9. அகத்திணைகள் இரண்டைச் சுட்டுக.
10. 'கற்பு' என்பதன் இலக்கணம் யாது?

**பகுதி ஆ**

(5 × 5 = 25)

**அனைத்து** வினாக்களுக்கும் விடையளிக்க.

11. (அ) சிறுபாணாற்றுப்படை வாயிலாக நல்லியக்கோடன் பரிசிலார்க்கு விருந்தோம்பிப் பரிசில் அளித்த சிறப்பினை விவரி.

(அல்லது)

- (ஆ) வெள்ளிவீதியார் பாடல்களின் மூலம் தலைவி படும் துயரத்தை விவரி.

12. (அ) சோழன் நல்லுருத்திரனின் முல்லைக்கலி பாடல் உணர்த்தும் செய்திகளை விளக்குக.

(அல்லது)

- (ஆ) பிசிராந்தையார் செவியறிவுத்தலாகப் பாண்டியன் அறிவுடை நம்பிக்கு கூறிய கருத்துக்களை ஆராய்க.

13. (அ) நாலடியார் உணர்த்தும் வாழ்வியல் செய்திகளை விவரி.

(அல்லது)

- (ஆ) பெரியாரைத் துணை கோடலாக வள்ளுவர் கூறும் கருத்துக்களை விவரி.

14. (அ) அகத்திணைகள் இரண்டின் சிறப்பை விளக்குக.

(அல்லது)

- (ஆ) உள்ளூறை பற்றிய செய்திகளை விளக்குக.

15. (அ) நீதிதேவன் மயக்கம் நாடகத்தின் கதைச்சுருவினை விளக்குக.

(அல்லது)

(ஆ) நாடகத்தின் தோற்றம் வளர்ச்சி குறித்து ஆராய்க.

**பகுதி இ**

(3 × 10 = 30)

எவையேனும் மூன்று வினாக்களுக்கு மட்டும் விடையளிக்க.

16. சங்க அக, புற இலக்கியங்கள் உணர்த்தும் வாழ்வியல் செய்திகளை விளக்குக.
17. சிறுபாணாற்றுப்படை காட்டும் கடையெழு வள்ளல்களின் சிறப்பினை ஆராய்க.
18. திருக்குறள், நாலடியார் உணர்த்தும் அறவியல் கருத்துக்களை ஆராய்க.
19. தமிழ் இலக்கணம் சுட்டும், களவு, கற்பு குறித்த செய்திகளை விவரி.
20. ஓரங்க நாடகம் ஒன்றினைப் படைப்பாக்கம் செய்க.

**R5414**

**Sub. Code**

**4534E4/942E**

**M.A. INTEGRATED HOME SCIENCE/ M.Sc.  
INTEGRATED MARINE BIOLOGY DEGREE  
EXAMINATION, APRIL – 2021.**

**Fourth Semester**

**English IV**

**ENGLISH FOR ENRICHMENT-IV**

**(CBCS – 2019 onwards)**

**(Common for M.A. Integrated Home Science/M.Sc.  
Integrated Marine Biology)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Who are Professor Higgins and Colonel Pickering?
2. What is the relationship between Eliza and Doolittle?
3. Why was Swaminathan apprehensive of Mondays?
4. What did Swaminathan tell his grandmother about Rajam?
5. Why does Antonio lend money to Bassanio, even though Bassanio never repays him?
6. How does Romeo's react when he first sees Juliet?
7. Add the appropriate tag to the following sentences.
  - (a) A few people knew the answer.
  - (b) The garden looks very attractive.

8. Rewrite as directed:
- (a) It is a horrible night. (Transform into Exclamatory sentence)
  - (b) Why waste time in this fruitless occupation? (Transform into Assertive sentence)
9. What are four essential components of a group discussion test?
10. Who holds a group discussion?

**Part B** (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) What characteristics does Eliza demonstrate when she present herself to Higgins for speech lessons?

Or

- (b) Comment on the dramatic importance of phonetics in the play *Pygmalion*.

12. (a) What were the reasons of animosity between Mani and Rajam?

Or

- (b) How did Rajam bring about reconciliation between his fighting friends?

13. (a) Account for the popularity of the balcony scene in *Romeo and Juliet*.

Or

- (b) Write a note on the major conflict in the play *The winter's Tale*.

14. (a) Correct the following sentences, If necessary.
- (i) I live in 40 Alexandra street.
  - (ii) My most favourite season is the autumn.
  - (iii) The message between the lines are that we need to finish before Monday.
  - (iv) The board want to make the decision by next Thursday.
  - (v) Each of our staff members have to fill in an evaluation form.

Or

- (b) Rewrite as directed:
- (i) Rama ordered Arjun to go away. (Change into Direct speech)
  - (ii) He is an intelligent boy. (Change into Negative sentence without changing the meaning)
  - (iii) I saw a bird and it was wounded.(Convert into a Simple sentence)
  - (iv) Search the pockets and you will find the watch. (Convert into a complex sentence)
  - (v) If you run, you will be in time. (Convert into a Compound sentence)

15. (a) A rolling stone gathers no moss. Expand the proverb.

Or

- (b) How would you make a conversation meaningful and effective? Illustrate with examples.

**Part C**

(3 × 10 = 30)

Answer any **Three** questions.

16. Make an assessment of the role played by Professor Higgins in *Pygmalion*.
  17. Describe the tone and attitude of the narrator toward Swami and the other characters.
  18. Discuss how the trial scene reveals a conflict between justice and mercy in *The Merchant of Venice*.
  19. Illustrate the principles and rules governing concord in English with examples.
  20. Discuss the advantage of being a starter of a Group Discussion.
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**R5415**

**Sub. Code**

**4534C1**

**M.A. (Integrated Home Science) DEGREE  
EXAMINATION, APRIL – 2021.  
Fourth Semester**

**COMMUNITY NUTRITION**

**(CBCS – 2019 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Section A**

(10 × 2 = 20)

Answer **all** questions.

1. Write full form of IDD.
2. Define Community Nutrition.
3. What do you mean by Anthropometric Measurements?
4. What are the Direct Methods of Nutritional Assessment?
5. Define Nutrition Education.
6. Write a short note on fortified Foods?
7. Expand NNPP.
8. Write to importances on 'Balwadi Nutrition Programme'.
9. Write two objectives of WHO.
10. Expand UNICEF.



**Section B**

(5 × 5 = 25)

Answer **all** the questions, choosing either (a) or (b).

11. (a) What are the importances of Good Nutrition?

Or

- (b) Explain the factors affecting health of the Community.

12. (a) What are the advantages of the Dietary Survey?

Or

- (b) Vital health statistics – Explain?

13. (a) Write about principles of Nutrition Education.

Or

- (b) Explain the factors influencing nutrition related behaviour.

14. (a) Briefly write a note on ‘Noon Meal Programme’.

Or

- (b) Write the importance of ‘Iodine Deficiency Disease Control Programme’.

15. (a) Give a brief account on FAO.

Or

- (b) Write the objectives of CARE.

**Section C**

(3 × 10 = 30)

Answer any **Three** questions.

16. Explain in detail the prevalence of diet related non-communicable chronic diseases.
17. Write about the direct methods used to assess the nutritional status of the community.

18. Explain in your own words about the need of nutrition education.
  19. Bring out the advantages of national nutritional anaemia prophylaxis programme.
  20. Discuss the role of UNICEF.
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**R5416**

**Sub. Code**

**4534C2**

**M.A. DEGREE EXAMINATION, APRIL – 2021.**

**Fourth Semester**

**Integrated Home Science**

**PUBLIC HEALTH NUTRITION**

**(CBCS – 2019 onwards)**

Time : Three Hours

Maximum : 75 Marks

**PART A**

(10 × 2 = 20)

Answer **all** questions.

1. What do you mean by Nutrition?
2. Define Health.
3. Expand IDA and its types.
4. What are the two types of PEM?
5. Write full form of AIDS.
6. What is the need of Community Healthy Care in our Society?
7. Write two roles of Nutrition for Physical Fitness and Sports.
8. How will you define Fortified Foods?
9. Define Food Security.
10. What is immunization?

**Part B**

(5 × 5 = 25)

Answer **all the** questions, choosing either (a) or (b).

11. (a) Write the role of public nutritionist.

Or

- (b) What about the concept and scope of public health nutrition?

12. (a) Explain the dietary treatment for the person suffering from Vitamin A deficiency?

Or

- (b) What are the main symptoms of zinc deficiency?

13. (a) Write a short note on community health care.

Or

- (b) Explain in your own words about how to prevent HIV/AIDS.

14. (a) Give the guidelines for the person in disaster management?

Or

- (b) Write a short note on man-made disaster.

15. (a) What are the factors affecting food security?

Or

- (b) Discuss the prevention and management of diarrhoeal diseases.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss the current concerns in public health nutrition.

17. What are the symptoms of IDD? Write about its treatment and prevention in detail.

18. Explain the role and importance of public relations in a hospital or any health care Setting.
  19. Elaborate the feeding problems in children with special needs.
  20. List ten golden rules for food safety preparation.
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**R5417**

**Sub. Code**

**4534A4**

**M.A. (INTEGRATED HOME SCIENCE) DEGREE  
EXAMINATION, APRIL – 2021.**

**Fourth Semester**

**Allied - INTERIOR DESIGN**

**(CBCS – 2019 onwards)**

Time : Three Hours

Maximum : 75 Marks

**Section A**

(10 × 2 = 20)

Answer **all** questions.

1. Define Interior Design.
2. What is the concept of Interior Design?
3. Name the types of Design.
4. What is the purpose of Design?
5. Define emphasis.
6. What do you mean by Harmony?
7. Write the types of Flower Arrangement.
8. What are the accessories used in Home Decoration?
9. What do you mean by Human Scale?
10. What are the two main qualities of Interior Designer?

**Section B**

(5 × 5 = 25)

Answer **all** the questions, choosing either (a) or (b).

11. (a) Discuss the essential elements of interior design.

Or

- (b) Explain the importance of interior decoration in modern times.

12. (a) Elaborate the classification of decorative design.

Or

(b) Differentiate texture and pattern and give their use in interiors.

13. (a) What is rhythm? Discuss its application to interiors.

Or

(b) What do you understand by 'proportion'? Write its importance in interiors.

14. (a) Write the classification of flower arrangement.

Or

(b) List out the principles of flower arrangement.

15. (a) Describe the difference between interior design and interior decoration.

Or

(b) What are the applications of interior design?

**Section C**

(3 × 10 = 30)

Answer any **Three** questions.

16. What are the 7 basic elements of interior design? Explain in detail.

17. When designing a room what is the most important factor for you?

18. Explain in detail about the principles of design.

19. What are the methods and materials used in flower arrangement?

20. Elaborate the role of a good interior designer in your own words.

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**R5418**

**Sub. Code**

**6HS6C1**

**M.A. (I.H.S.) DEGREE EXAMINATION, APRIL – 2021**

**Sixth Semester**

**Integrated Home Science**

**DIETETICS**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all the** questions.

1. Define Therapeutic Nutrition.
2. Define Obesity.
3. What is an Ulcer?
4. What cause Celiac Sprue disease?
5. What are the cause of Cholelithiasis?
6. Define Etiology of Hepatic coma.
7. What is a Renal disease?
8. What is Renal Dialysis?
9. Define Allergens.
10. What are the cause of Phenylketonuria?



**Part B**

(5 × 5 = 25)

Answer **all the** questions, choosing either (a) or (b).

11. (a) What is Therapeutic Modification?

Or

- (b) Compare Soft Diet with Regular diet.

12. (a) Explain Tuberculosis causes and treatment.

Or

- (b) Give in detail about the diet for GI tract diseases.

13. (a) Write about Diabetes Mellitus Type II.

Or

- (b) Explain Pancreatitis.

14. (a) Write about Dialysis.

Or

- (b) Explain Hyper tension.

15. (a) Give some examples of inherited Metabolic Disorders.

Or

- (b) How are Inborn Metabolism Errors are treated?

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Give a detailed account on Anemia.

17. What is the main cause of IBS and its first signs?

18. Write any two Gall Bladder diseases with its causes and treatment?
  19. Explain Acute and Chronic Renal Failure.
  20. Write the following with its diagnosis and treatment.
    - (a) Gluten allergy.
    - (b) Crustacean's allergy.
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**R5419**

**Sub. Code**

**6HS6C3**

**M.A. DEGREE EXAMINATION, APRIL – 2021.**

**Sixth Semester**

**Integrated Home Science**

**EXTENSION EDUCATION IN HOME SCIENCE**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Write a note on problem faced by women in rural areas.
2. Explain about AIWC.
3. Give a note on rural development.
4. Write a note on origin of Extension Education.
5. Write a note on functions of Block administrative set-up.
6. Explain in detail about Training sections for women.
7. What is meant by Posters and Charts.
8. What are the problems faced in Teaching Aids.
9. Write a note on KSY.
10. Give a note on importance of Programme Planning.

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

All questions carry equal marks.

11. (a) Explain detail about KGNMI?

Or

(b) Write a note on poor health and malnutrition in rural areas.

12. (a) Write a note on role of Home Science Extension in Rural development.

Or

(b) Explain in detail about Principles of Extension education.

13. (a) Write in detail about functions of women extension workers.

Or

(b) Explain in detail about Qualities of Extension worker.

14. (a) Write a brief note on Barriers of communication.

Or

(b) Explain in detail about Importance of communication in Extension.

15. (a) Explain in detail about SGSY.

Or

(b) Give a note on Meaning and importance of programme planning.

**Part C**

(3 × 10 = 30)

Answer any **three** Questions.

All questions carry equal marks.

16. Explain in brief about Socio-Economic conditions in the village.
  17. Write a brief note on steps in Home Science Extension Teaching.
  18. Explain in detail about Training Women Extension workers.
  19. Give a brief note on Audio visual Aids.
  20. Explain in detail about Nutrition and Health Programmes for women and children.
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**R5420**

**Sub. Code**

**6HS6A1**

**M.A. DEGREE EXAMINATION, APRIL – 2021.**

**Sixth Semester**

**Integrated Home Science**

**ALLIED : WOMEN AND ENTREPRENEURSHIP  
DEVELOPMENT**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part - A**

(10 × 2 = 20)

Answer **All** questions.

1. Differentiate between entrepreneur and manager.
2. Describe the roles of Entrepreneur.
3. What is the role of entrepreneur in economic development?
4. What are the factors that affect the women entrepreneurs?
5. Write a note on TIIC.
6. What are the objectives of NSIC?
7. What are the salient features of New small Enterprise policy?
8. Give some Central government schemes for supporting women entrepreneurs.

9. What are the important factors to be considered during the selection of project?
10. What do you meant by project appraisal?

**Part - B**

(5 × 5 = 25)

Answer **All** questions, choosing either (a) or (b).

All questions carry equal marks.

11. (a) State the various types of entrepreneurs. Discuss the characteristics of successful entrepreneur.

Or

- (b) Explain in detail about problems faced by women entrepreneurs.

12. (a) Explain about motivation theory.

Or

- (b) Explain the concept of social enterprise and social entrepreneurship.

13. (a) Explain the forms of financial support system.

Or

- (b) What are the causes of formation of MSME policy in India?

14. (a) What is EDPs. Also explain its phases of EDPs.

Or

- (b) What is the significance of promoting women Entrepreneurship in India.

15. (a) What is project management? Explain with proposal format.

Or

- (b) Define technical analysis of a project. What are the tools of such an analysis?

**Part - C**

(3 × 10 = 30)

Answer any **Three** questions.

All questions carry equal marks.

16. Discuss the role of Government in promoting Entrepreneurship. Support your answer with explain.
17. What are the responsibilities of social enterprise? Explain in detail.
18. What do you understand by the MSME policy and also explain which types of agencies are formulating these policies.
19. Discuss the main type of organizations that extend debt finance to new entrepreneurs in India.
20. "Projects are vulnerable to host of risks". What are they?



**R5421**

**Sub. Code**

**6HSE6A**

**M.A. (Integrated Home Science) DEGREE  
EXAMINATION, APRIL – 2021**

**Sixth Semester**

**FOOD SANITATION AND HYGIENE**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Define sanitation.
2. Name the impurities present in water and their effects on water.
3. Expand HACCP.
4. Write down the storage temperature used for food material.
5. Define hygiene.
6. Mention any four pesticides used in Tamil Nadu.
7. Differentiate between sterilization and disinfectant.
8. What is disinfectant.
9. Mention the holding temperature used for various foods.
10. Draw a layout of waste disposal unit of kitchen.

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) What are the factors involved in contamination?

Or

- (b) Write anyone food borne illness.

12. (a) Write a short note on the role of public health unit.

Or

- (b) Explain in detail about the 3 important aspects of storage in food material.

13. (a) Mention the importance of personal hygiene.

Or

- (b) What are the safety procedures followed in food establishment?

14. (a) Write about the cleaning agents and it's uses.

Or

- (b) What are the guidelines Followed for efficient dish washing?

15. (a) Define pesticides. Mention the merits and demerits of pesticides.

Or

- (b) What are the signs and control of Infestation?

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Explain about the food borne illness.
  17. How to use the waste disposal effectively in a good service establishment?
  18. Enumerate the factors involved in selection of equipment.
  19. Write about the causes of accidents in catering establishment.
  20. Explain about the effective use of leftover food with suitable examples.
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**R-5422**

**Sub. Code**

**453N06**

**M.A. DEGREE EXAMINATION, APRIL – 2021.**

**Eighth Semester**

**Home Science (Spl. Nutrition & Dietetics)**

**FOOD PRODUCT DEVELOPMENT AND MARKETING**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part - A**

(10 × 2 = 20)

Answer **ALL** questions.

1. Define New food products.
2. What is social concerns?
3. Define Cost Analysis.
4. Name some of the traditional Indian foods.
5. What is Food Processing?
6. Expand SWOT.
7. Write a short note on pre-school children.
8. Expand FSSAI.
9. Explain the concept of marketing.
10. Define Export.

**Part - B**

(5 × 5 = 25)

Answer **All** questions, choosing either (a) or (b).

11. (a) Write about the reason for new food product development.

Or

- (b) List out the classification of new food product development.

12. (a) How will you identify the concepts of new products based on special dietary requirements?

Or

- (b) Explain about the Food Packaging and Labelling.

13. (a) Write a short note on preparation of business plan.

Or

- (b) Write a short note on preparation of project report.

14. (a) Discuss the formulation of new food products for old age person.

Or

- (b) List out five safety food products.

15. (a) What are the role of export promoting agencies?

Or

- (b) How will you promote a new product in market? Explain.

**Part - C**

(3 × 10 = 30)

Answer any **Three** questions.

16. Discuss the salient feature of innovative concepts in the development of a new food product.
  17. What are the factors considered in development of prototype products and explain its formulation process.
  18. Discuss the advertising and marketing plans for food products.
  19. Elaborate the formulation of new food products for Therapeutic uses.
  20. Explain the role of Advertisement and Technologies in promotion of new food products.
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**R5423**

**Sub. Code**

**453N07**

**M.A. DEGREE EXAMINATION, APRIL – 2021.**

**Eighth Semester**

**Home Science  
(Spl. - Nutrition & Dietetics)**

**FOOD MICROBIOLOGY**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part - A**

(10 × 2 = 20)

Answer **ALL** questions.

1. What are the two most common causes of a Food Borne Outbreak?
2. Define Morphology
3. Write about the Microbial growth.
4. What do you mean by Food Spoilage?
5. Define Purification.
6. List any two water Borne Diseases?
7. What is Direct Examination?
8. Define cultural Techniques.
9. Define Irradiation.
10. What are the types of physical methods involved in the prevention of Food spoilage?

**Part - B**

(5 × 5 = 25)

Answer **All** questions, choosing either (a) or (b).

11. (a) Explain the types of microorganisms in Food.

Or

- (b) How will you bring out the importance of organisms in food?

12. (a) Explain the Bacterial Growth curve.

Or

- (b) Write about the types of Food Spoilages.

13. (a) Discuss the bacteriology of water supplies.

Or

- (b) Write about the preventive methods for water borne diseases.

14. (a) Explain the methods available for the Microbial examination of foods.

Or

- (b) Write in details about Enumeration methods.

15. (a) Hurdle Technology - Discuss.

Or

- (b) Drying and Dehydration - Explain.



**Part - C**

(3 × 10 = 30)

Answer any **Three** questions.

16. Elaborate the Binomial Nomenclature of Microorganisms.
  17. Describe the five major sources of microbial contamination.
  18. Explain the microbiology of foods and its products.
  19. Discuss about the Rapid Methods for the Detection of specific organisms and Toxins.
  20. Explain in detail on Non-Destructive Method of Preservation.
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**R5424**

**Sub. Code**

**453N08**

**M.A. DEGREE EXAMINATION, APRIL – 2021**

**Eighth Semester**

**Home Science (Spl. – Nutrition and Dietetics)**

**MACRONUTRIENTS**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What are the three macronutrients?
2. Expand BMR.
3. Define Gluconeogenesis.
4. What are the sources of Carbohydrates?
5. Name any two high protein foods.
6. Define denaturation.
7. Write two foods which are rich in fats?
8. What is phospholipids?
9. Define fibre.
10. What are the types of fibre in plant foods?

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain energy expenditure.

Or

- (b) What are the factors affecting the BMR?

12. (a) Write the classification of carbohydrates.

Or

- (b) What are the functions of carbohydrates?

13. (a) How will you evaluate the protein quality?

Or

- (b) What are the main functions of protein?

14. (a) Explain saturated and unsaturated fats.

Or

- (b) Write about the classification of phospholipids and bile pigments.

15. (a) Write about the role of dietary fibre in Human body.

Or

- (b) Explain the effect of over consumption of fibre.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Describe the role of carbohydrates in energy metabolism.

17. Explain TCA cycle.

18. Write about the classification and functions of amino acids.
19. Elaborate the functions, utilization and transport of fat in the body.
20. Explain dietary fibre in detail.  
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**R5425**

**Sub. Code**

**453EC2**

**M.A. DEGREE EXAMINATION, APRIL –2021**

**Eighth Semester**

**Home Science (Spl Nutrition and dietetics)**

**WOMAN AND REPRODUCTIVE HEALTH**

**(CBCS – 2017 Onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all the** questions.

1. What is gender bias?
2. Define infant mortality
3. List any two determinates of population growth.
4. What are the trends in population growth.
5. Define reproductive health
6. List any two objectives on being motherhood.
7. Write two methods on birth control.
8. What is contraception?
9. Expand ICPD.
10. Write any two aims by India's new population policy.

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Material mortality-Explain

Or

- (b) Enlist the possible reasons for infertility in human beings.

12. (a) State the consequence of over population.

Or

- (b) Write about the population structure in state level.

13. (a) Write about the determinates of reproductive health.

Or

- (b) Write a short note on Reproductive Rights.

14. (a) Differentiate between vasectomy and tubectomy

Or

- (b) What are the important features of an ideal contraceptive?

15. (a) Explain the health policies with special reference to women.

Or

- (b) List out the health programmes available for women in India.

**Part C**

(3 × 10 = 30)

Answer any **Three** questions.

16. Discuss how to give education on 'gender bias in sex ratio'  
17. Elaborate the population structure and characteristics in national level.

18. An integrated approach for safe motherhood and reproductive health- Explain.
  19. Briefly explain the various reproductive technologies to assist an infertile couple to have children
  20. What is the main purpose of India's new population policy? Discuss.
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**R5426**

**Sub. Code**

**453EC3**

**M.A. DEGREE EXAMINATION, APRIL – 2021**

**Eighth Semester**

**Home Science (Spl. Nutrition and Dietetics)**

**FOOD SERVICE MANAGEMENT**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is food service management?
2. Define Cafeteria.
3. What do you mean by welfare catering?
4. Define catering management.
5. What is Layout Analysis?
6. What are the equipments used in food industry?
7. Define outdoor catering.
8. How do you plan menu for packed meals?
9. Define financial management.
10. What is market survey?



**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Write the characteristics of any one food service unit.

Or

- (b) How do evaluate the food service industry?

12. (a) Differentiate between tangible and intangible tools.

Or

- (b) Draw an organization chart and explain its types.

13. (a) List out the steps involved in planning in layout.

Or

- (b) Explain in detail on determining equipment.

14. (a) What are the measures for utilization of energy management?

Or

- (b) Write about the outdoor catering and its menu planning.

15. (a) Describe the major components of cost in financial management.

Or

- (b) Write a note on book keeping and accounting.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the characteristics of the various types of food service units.
17. Describe the principles and functions of management.
18. Discuss on management of resources.
19. Explain the different types of material management.
20. What methods will you use to ensure consistently meet your sales and marketing goals.

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