

BSc
Food & Nutrition
TU

Jan-2023

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Food & Nutrition

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER I - (Lifespan Nutrition II)

QP CODE: 8480

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Briefly explain Nutritional requirements for pregnant women.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Write a note on Reference man and woman in relation with their physical activity along with their RDA.
3. Explain physiological changes seen in pregnant women in 3rd trimester.
4. What is the role of Calcium and Vitamin B complex in lactation?
5. Describe in detail the physiological changes that are observed in old age people.
6. Write a note on planning a cost effective balanced meal plan.
7. Give the dietary guidelines for women in 2nd trimester.
8. What are the dietary guidelines for lactating women?
9. Explain the role of Vitamins and Minerals in maintaining health of old age.
10. Write a note on nutritional requirement of adults.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is balanced diet? Why is it necessary?
12. What is the role of placenta in pregnancy?
13. What is Lactation Failure? List out some factors responsible for it.
14. Explain importance of Fiber in old age people's daily diet.
15. Define low cost Balanced diet and explain.
16. Explain impact of malnutrition during pregnancy.
17. What is Expressed Milk? Explain.
18. What are Degenerative Diseases? Give examples.
19. Give examples of occupations based on classification of activities for Sedentary, Moderate and Heavy active lifestyle.
20. Explain the relationship between Maternal and Foetal Nutrition.
21. Plot a diagrammatic representation of process of stimulation of milk production.

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IV SEMESTER

PAPER II - (Chemistry II)

QP CODE: 8481

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Write instrumentation, working, applications of UV-Vis spectroscopy

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Describe the safety measures of safety measurements in handling radio isotopes
3. Explain preparation of emulsifiers
4. Write the difference between physical and chemical adsorbent
5. Describe in brief Nitrogen cycles
6. What is Grothus and Draper law
7. Application of radio isotopes in medicine, agriculture
8. Write the properties of sols.
9. What are different metal ions found in Biological systems? Give examples
10. Define ^{14}C dating

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Hardy Schulze law
12. Oxidation reaction of Alkanes
13. Write the uses of adsorption
14. Define Emulsification and write mechanism of emulsification
15. Brownian movement
16. Write the importance of Sulphur and Selenium in biological system
17. What is Nuclear stability
18. Write the application of flame photometer
19. Give the general applications of colloids.
20. Metalloenzymes
21. What are Alkyl halides

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IV SEMESTER

PAPER III - (Dietetics II)

QP CODE: 8482

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What are Gastro-intestinal disorders? Explain classification, signs and symptoms and dietary management for 1. Peptic Ulcers 2. Diarrhea

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Distinguish between kwashiorkor and marasmus
3. Explain the causative factors of food intolerance?
4. Explain the nutritional importance of pre-operative and post-operative condition?
5. Food allergy is immune mediated. Elaborate the statement.
6. Briefly explain fluid management in diarrhea?
7. Explain Megaloblastic anaemia and Pernicious anaemia.
8. Define burns along with their degrees, classifications and complications.
9. Explain Steatorrhea and its dietary management.
10. What are the prophylaxis programs for Vitamin A deficiency?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Explain the causes of GERD? List out any five foods that must be avoided during this disease.
12. Differentiate between underweight and stunting.
13. What is food intolerance? List out the signs and symptoms of food allergy.
14. Explain preventive measures that are taken in order to prevent Iodine deficiency.
15. Explain dietary management in surgery conditions.
16. Write a note on forms of inflammatory bowel disease?
17. Explain foods that are included in Gluten intolerance.
18. Write about Protein–Energy Malnutrition.
19. Note on Gastro Oesophageal Reflux Disease.
20. Discuss the aetiology of Vitamin A deficiency.
21. Explain dietary management during surgery.