

BSc - F.N., March - 2025.

**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. Explain the Dietary guidelines and Dietary modifications in Elderly people.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain food requirements in Adults.
3. What are the complications faced during Pregnancy?
4. Explain role of Vitamins during lactation.
5. Explain any 2 health complications of elderly people along with its dietary management.
6. Describe Indian reference man and woman and bring out the importance of them.
7. Explain the importance of Calcium and Iron in pregnancy.
8. Explain the role of Hormones in milk production and factors affecting milk secretion.
9. Explain physiological changes seen in old age people.
10. Describe methods to reduce the cost of a meal.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What are the effects of Neurological Dysfunction in old age?
12. What are the factors responsible for Lactation Failure?
13. Write a note on weight gain seen in pregnancy.
14. What is balanced diet? What is its principle?
15. What is the effect of Anaemia in old age?
16. Calcium is very crucial during pregnancy. Explain.
17. Write a note on food requirements during lactation.
18. What is the importance of Reference Man and Woman?
19. Explain importance of exercise in old age.
20. Describe the nutritional status of Indian Nursing Mothers.
21. Make a note on preconceptional nutrition.

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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 the instrumentation, working, applications of flame photometer

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Explain phosphorus cycles and write its importance
3. Role of Iron in haemoglobin synthesis
4. Write the properties of colloids
5. What are different types of emulsions
6. Application of radio isotopes in medicine, agriculture
7. Write about metalloenzymes with example and its importance in biological system
8. Explain the working principle of colorimeter
9. Write the preparation of alkenes
10. Give the importance of emulsification in food industry

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. What is importance of nitrogen compounds in biological systems?
12. State Hardy Schulze rule with respect to coagulation.
13. Define n/p ratio in radioactivity
14. Tyndall effect in colloidal solution
15. Examples of naturally occurring complex compounds in living systems
16. Beer-Lambert's law
17. Write the characteristics of radioactive elements
18. What are the functions of Potassium and Calcium?
19. Types of emulsions
20. Biological effects of radiation
21. What is  $^{14}\text{C}$  dating?

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## **B.Sc. in Food & Nutrition**

**[Time: 3 Hours]**

**[Max. Marks: 80]**

### **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. Define PEM. Describe the nutritional requirement of PEM child and explain the sequence of dietary treatment.

#### **Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Describe anaemia. Discuss the causes of anaemia in pre-school children.
3. Which condition necessitate to special feeding?
4. Explain diet in diverticulosis.
5. Explain nutrient drug interaction.
6. Discuss the nutritional requirement of pre-operative condition.
7. Enumerate the target group and strategy to prevent vitamin A deficiency.
8. Write a brief note on lactose intolerance?
9. Give the dietary guidelines for diarrhoea.
10. Define ulcerative colitis. Describe its causes and treatment.

#### **Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Give four low residue recipes.
12. What are the causative factors of peptic ulcer?
13. Define food allergy.
14. What are objectives and target group of NIDDCP?
15. Define anabolism and catabolism.
16. Mention the types of immunoglobulin.
17. Give the classification of burns.
18. Differentiate between Diverticulosis and Diverticulitis.
19. What are the causes of irritable bowel syndrome?
20. What is the significance of protein in the diet of burn patients?
21. Define atonic constipation.