

**M.Sc. Semester-3 Examination**  
**501****Food Science & Nutrition**  
**March-2024****Time : 2-30 Hours]****[Max. Marks : 70**

**Instructions:** Illustrate your answers with neat diagrams wherever necessary.

**Q 1. Write the following**

- (i) Explain the term "Public Health Nutritionist" and its role in health care delivery. **(7 Marks)**
- (ii) Enlist the methods of assessing nutritional status of an individual. Discuss in detail any two. **(7 Marks)**

**OR**

- (i) What is Mortality and Morbidity? Explain the IMR and MMR in detail. **(7 Marks)**
- (ii) Write a note on Immunization. **(7 Marks)**

**Q.2 Write the following**

- (i) Explain the causes and effects of zinc deficiency among human. **(7 Marks)**
- (i) What are growth charts? Explain the features of growth charts currently in use. **(7 Marks)**

**OR**

- (i) Define Anemia. Explain the diagnostic tests for different types of anaemia. **(7 Marks)**
- (ii) Why NIDDCP is a success story in India? Compare it with other public health programmes in India. **(7 Marks)**

**Q 3. Write the following**

- (i) Write down the physiology of lactation. **(7 Marks)**
- (ii) Write down the factors that affect lactation and diet and feeding pattern during lactation.

**OR**

- (i) Explain the advantages of breast milk. **(7 Marks)**

- (ii) What is weaning? Explain weaning foods and its types with examples.  
What points to be considered while giving weaning foods.

(7 Marks)

**Q 4. Write the following**

- (i) What is NIN? Write about clinical studies and teaching programs governed by NIN. (7 Marks)  
(ii) Explain the objectives and functions of WHO and FAO. (7 Marks)

**OR**

- (i) What is the objective and program strategy of Anaemia prophylaxis? (7 Marks)  
(ii) Explain: Dental, Skeletal fluorosis and the effects of fluorosis on soft tissues /systems. (7 Marks)

**Q 5. Attempt any seven out of twelve**

(14 Marks)

- (i) Write the full form of FSSAI.  
(ii) What is hindmilk?  
(iii) Ectoderm of tissue forms \_\_\_\_\_ organogenesis.  
(iv) What are the disadvantages of bottle feeding (any two)?  
(v) Why iron requirement of women increases during pregnancy?  
(vi) Write benefits of colostrum?  
(vii) What are goitrogens?  
(viii) What is the full form of AFPRO?  
(ix) What is the desirable limit of fluoride in water?  
(x) What is the main cause of epidemic dropsy?  
(xi) Explain the Infant Mortality Rate.  
(xii) What is "PICA"
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