

**MASTER OF SCIENCE (DIETETICS AND
FOOD SERVICE MANAGEMENT) (M.Sc. DFSM)**

Term-End Examination

December, 2022

MFN-006 : PUBLIC NUTRITION

Time : 3 hours

Maximum Marks : 100

Note : (i) *Question no. 1 is compulsory.*

(ii) *Answer **five** questions in all.*

(iii) *All questions carry equal marks.*

1. (a) Name three vaccine preventable diseases. 3
- (b) List three different types of needs of a community. 3
- (c) What are “Bitot’s spots” ? 2
- (d) Give the WHO Hemoglobin cut-off criteria for diagnosis of anemia among adult males and females. 2
- (e) Name two nutrients whose deficiency can cause megaloblastic anemia. 2

- (f) Name the two forms in which fluorosis manifests. 2
- (g) What is Infant Mortality Rate and Under-5 Mortality Rate ? 2
- (h) What is the index used to measure stunting and wasting ? 2
- (i) Name two micronutrients added in double fortified salt. 2
- 2.** (a) Describe the role of agriculture in ensuring nutrition security. Discuss the issues related to agricultural production of different foods. 10
- (b) What do you understand by food fortification ? What points would you keep in mind while choosing fortification as a strategy to tackle micronutrient deficiencies in the country ? 10
- 3.** (a) What is the programme strategy for decreasing the prevalence and incidence of anemia in women and children ? 10
- (b) List some advantages of using focus group discussions for situational analysis in a community. 5
- (c) How can the quality and impact of ICDS be improved ? 5

4. Explain the following briefly in about 250 words each : 5+5+5+5
- (a) Consequences of PEM
 - (b) Food frequency method for assessing dietary intake
 - (c) National Family Health Surveys
 - (d) Targetted Public Distribution System
5. (a) Discuss the importance of clean drinking water. Enlist measures being taken to improve the quality and quantity of potable water supply. 8
- (b) Describe the role a public nutritionist can play in the health care delivery system. 7
- (c) What points would you keep in mind to design persuasive and coherent messages for a nutrition education programme ? 5
6. (a) Elaborate on some of the poverty alleviation and employment generation programmes in India. 10
- (b) Discuss the relevance of food-based strategies to combat nutritional problems. 10

7. (a) Discuss the approach to reduce and prevent iodine deficiency disorders in the community. 8
- (b) Explain the relationship between fertility, nutrition and quality of life. 7
- (c) Describe the clinical manifestations of riboflavin deficiency. 5
8. Write short notes on any **four** of the following in about 250 words each : 5+5+5+5
- (a) Methods for direct assessment of nutritional status
- (b) Components of the Mid Day Meal Programme
- (c) Genetic approaches for improving quality of food
- (d) Key Informant Approach for situational analysis
- (e) Channels for communication of nutrition information
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