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**MASTER OF SCIENCE (DIETETICS AND  
FOOD SERVICE MANAGEMENT)**

**Term-End Examination**

**June, 2015**

**MFN-006 : PUBLIC NUTRITION**

*Time : 3 hours*

*Maximum Marks : 100*

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*Note : Answer five questions in all. Question No. 1 is compulsory. All questions carry equal marks.*

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1. (a) Define or explain briefly the following : 12
- (i) Food security
  - (ii) Cretinism
  - (iii) Pellagra
  - (iv) Sex Ratio
  - (v) Stunting
  - (vi) Mass media
- (b) Give **one** term/word for the following : 8
- (i) Inability to see in dimlight due to vitamin A deficiency.
  - (ii) The vitamin which helps to improve iron absorption.
  - (iii) Two nutrients which are added to double fortified salt.
  - (iv) Deficiency of this nutrient results from inadequate sun exposure.

- (v) No. of deaths of infants under one year of age per 1000 live births.
  - (vi) In pregnant women, anemia is diagnosed at hemoglobin levels less than.
  - (vii) BCG vaccination given to infants at birth protects against this disease.
  - (viii) An adult with a BMI of 30 kg/m<sup>2</sup> is classified as.
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- 2. (a) Differentiate between the clinical signs and features of Kwashiorkor and Marasmus. 8
  - (b) Discuss briefly the economic consequences of malnutrition. 7
  - (c) What causes Lathyrism ? What can be done to prevent this crippling disease ? 5
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- 3. (a) What are the objectives of Nutrition Surveillance ? Discuss briefly the important contributions an effective nutrition surveillance system can make. 10
  - (b) Describe the target groups and program components of the ICDS. 10
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- 4. (a) Describe the 24 - hour Recall method of diet survey. What are its uses and limitations ? 8
  - (b) How can horticulture interventions be used as a strategy to combat malnutrition ? Discuss giving examples. 6

- (c) Describe the social marketing approach theory of nutrition education. 6
5. (a) Discuss briefly the factors which affect fertility behaviour in our country. 8
- (b) Discuss the consequences of zinc deficiency. 7
- (c) What do you understand by food fortification? Name at least three foods and the nutrients that they have been fortified within developing countries of the world. 5
6. (a) Describe the management and operative functions of a personnel manager in a nutrition program. 8
- (b) What are Community Food Banks? Explain their role in improving food security. 6
- (c) Describe an anthropometric technique useful for measuring body fat. 6
7. (a) How can science and technology help to improve the food supply in our country? 5
- (b) Discuss the role and limitations of nutrient supplementation as a short term prevention strategy. 5
- (c) Comment on the importance of immunization to prevent malnutrition in children. 5
- (d) Discuss the advantages of the key informant approach in conducting situational analysis in a community. 5

8. Write short notes on **any four** of the following :

5+5+5+5

- (a) Functions of the Primary Health Centre
  - (b) Prevention of iron deficiency anemia
  - (c) National Nutrition Monitoring Bureau
  - (d) National Nutrition Policy
  - (e) Mid Day Meal Program
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