

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

Term-End Examination

June, 2018

MFN-006 : PUBLIC NUTRITION

Time : 3 hours

Maximum Marks : 100

Note : (i) Answer five questions in all.

(ii) Question No. 1 is compulsory.

(iii) All questions carry equal marks.

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1. (a) Define or explain in 2-3 sentences each of the following : 12
- (i) Green revolution
 - (ii) Nutrition surveillance
 - (iii) Felt needs
 - (iv) Food fortification
 - (v) Dental fluorosis
 - (vi) Kwashiorkor
- (b) Give one term/word for the following : 8
- (i) Dirty white, foamy and raised spots on surface of conjunctiva due to Vitamin A deficiency.
 - (ii) Skin lesions on neck which appear in the form of necklace in niacin deficiency.
 - (iii) Number of females per 1000 males.

- (iv) National programme under which iodization of edible salt has been made mandatory.
 - (v) WHO cut off for hemoglobin levels for diagnosing anemia in adult males.
 - (vi) Knock knees/bow legs, pigeon chest and beaded ribs in children is a sign of deficiency of this vitamin.
 - (vii) A person with BMI < 18.5 kg/m² is classified as.
 - (viii) Crippling disease caused by consumption of kesari dhal.
2. (a) Discuss the cost of managing nutrition related health problems and their consequences. 7
- (b) Describe the ICDS program infrastructure and functionalities at all levels of implementation. 8
- (c) What causes Beriberi ? Differentiate between clinical features of Dry and Wet Beriberi. 5
3. (a) What do you understand by nutrition monitoring ? Discuss its objectives and components. 10
- (b) Discuss the program strategy of the National Prophylaxis Program for prevention of Blindness due to vitamin A deficiency, indicating the target beneficiaries. 10

4. (a) Discuss some strategies which can be used to improve urban and rural sanitation. 8
- (b) Comment on the role of a public nutritionist in health care delivery. 6
- (c) What categories of persons should be involved in the evaluation of a program ? Discuss why it is important to involve them. 6
5. (a) Discuss the different determinants of food security. 8
- (b) What are the various causes of PEM ? 6
- (c) Describe the importance of face to face or interpersonal methods of communication. 6
6. (a) Describe the use of the food frequency questionnaire as a method of assessing dietary intake. What are its strengths and limitations ? 8
- (b) Discuss the limitations and advantages of the Public Forum Approach for conducting situational analysis. 7
- (c) Why is it important to pretest communication materials before beginning a nutrition education program ? 5
7. (a) "We face a big challenge when we plan to change behaviours of people through nutrition education". Justify the statement. 5
- (b) What do you understand by 'sustainable food production' ? 5

- (c) List the steps involved in adopting dietary diversification as a food based approach to tackle the problem of micronutrient deficiencies. 5
- (d) Comment on the challenges faced by the targeted public distribution system. 5

8. Write short notes on any four of the following : 5+5+5+5

- (a) Demographic cycle through which a nation passes
 - (b) Biochemical tests for detecting Vitamin A deficiency
 - (c) Community Food Banks
 - (d) Importance of Formative research
 - (e) Annapurna Scheme
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