MFN-004

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

Term-End Examination

December, 2016

MFN-004 : ADVANCE NUTRITION

Time : 3 ho	ours	Maximum Marks : 100
Note : (i, (i) (i)		sory.
1. (a)	Explain the following in each : (i) Transfatty acids (ii) Probiotics (iii) Flavonoids (iv) Gestational diabetes (v) Provitamin A	
(b)	List the condition caused b of the following nutrients : (i) Riboflavin (ii) Iodine (in children) (iii) Selenium (iv) Sodium (v) Folate	y the deficiency 5
(c)	 (i) Found Give one important functio following nutrient/comportion (i) Vitamin E (ii) Vitamin B₁₂ (iii) Zinc (iv) Phytoestrogens (v) Polyphenols 	

MFN-004

- 2. (a) Briefly describe the factors/components 10 which influence energy expenditure in case of children.
 - (b) What are Recommended Dietary 10 Allowances (RDAs) ? How are they derived ? Briefly explain the concept.
- List any two 'Macronutrient' and two "Micronutrient" required by our body. Explain their physiological functions and also the consequences of inadequate intake of these nutrients.
- **4.** Explain the following briefly : 5+5+5+5=20
 - (a) Nutrient requirement and dietary modifications in the diet of elderly.
 - (b) Measures to improve protein quality in the diet.
 - (c) Transportation of fats in our body.
 - (d) Consequences of disturbance in fluid balance.
- (a) What are ergogenic aids? Discuss their use and relevance for training and competition for sports person.
 - (b) Enlist the dietary factors with anti 8 nutritional effects. Explain the effect of any one factor.
 - (c) Comment on the interaction of Vitamin C **4** and iron in our diet.

MFN-004

2

- 6. (a) Describe the physiological changes occuring 10 during pregnancy and how they influence nutrient need during pregnancy.
 - (b) List the nutrient needs (Recommended 5 Dietary Intakes) for preschool children.
 - (c) Elaborate on the common health/ 5 nutritional problems affecting infants in our country.
- 7. (a) What is meant by gene expression ? 5
 - (b) List the health hazards associated with high **2+6** altitude and give the nutrient requirement for high altitude.
 - (c) Elaborate how nutrient requirement during 7 space mission differ from normal recommendations.
- 8. Write short notes on any four of the following :

5+5+5+5=20

- (a) National programme targeting infant and preschoolers.
- (b) Composition of human milk and its suitability for child growth.
- (c) Limitations and Advantages of using an exchange list in planning a menu.
- (d) Health benefits of polyphenols.
- (e) Role of calcium, phosphorous and Vitamin D in bone formation.