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Your Roll No.....

655

B.Sc. (Life Science)/II Sem.

A

Paper—LSPT—203

FOOD, NUTRITION AND HEALTH

(Admission of 2010 and onwards)

Time : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Answer Five questions in all,

including Q. No. 1, which is compulsory.

1. (a) Define the following :

5

(i) Hypoglycemia

(ii) Acid Value of Lipids

(iii) Body Mass Index

(iv) Essential fatty acids

(v) Amphoteric molecule.

P.T.O.

- (b) Differentiate between the following : 12
- (i) Starch and Cellulose
 - (ii) Diabetes mellitus Type I and Type II
 - (iii) Fat and water soluble vitamins
 - (iv) Simple and Conjugated lipid
 - (v) Reducing and Non-reducing sugars
 - (vi) Macro and micro-nutrients.
- (c) Expand the following abbreviations : 3
- (i) NAD
 - (ii) PEM
 - (iii) IDA.
- (d) Write the names of any *three* food and water-borne diseases along with their pathogens. 3
- (e) Fill in the blanks : 4
- (i) The products of hydrolysis of sucrose is
and
 - (ii) As compared to mustard oil, Iodine number of
butter will be
 - (iii) Vitamin D is a soluble vitamin.
 - (iv) A disorder caused by Iodine deficiency is

2. (a) Describe the causes, symptoms and treatment of Vitamin A deficiency diseases. 8
- (b) Explain the national programme to control vitamin A deficiency. 4
3. What are the nutritional needs and dietary pattern for the following groups ? 12
- (a) Pregnant and nursing mothers
- (b) Infants.
4. (a) What are the factors that cause diabetes mellitus ? 4
- (b) Describe various dietary and life style modifications of a diabetic person. 8
5. (a) What are essential and non-essential amino acids ? Give two examples of each type. 4
- (b) Describe the various groups into which foods can be classified. Mention the main nutrients in each food group. 8

6. What are the different causes of diarrhoea ? Describe the dietary treatment of this illness. 12
7. Write short notes on any *three* of the following : 12
- (i) Food spoilage
 - (ii) Drug dependence.
 - (iii) Hypertension
 - (iv) Acquired Immunodeficiency Syndrome
 - (v) Coenzymes.