

(Pages : 3)

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Reg. No. : .....

Name : .....

**Fourth Semester M.Sc. Degree Examination, March 2021**

**Home Science**

**XD – Food and Nutrition/XE – Nutrition and Dietetics**

**HS 242 D/HS 242 E – ADVANCED HUMAN NUTRITION**

**(2018 Admission Onwards)**

Time : 3 Hours

Max. Marks : 75

PART – I

All questions carry equal marks. No answers should exceed 4 pages.

1. (a) Bring out the role of essential fatty acids. Explain any two fat soluble vitamins in terms of
  - (i) importance
  - (ii) deficiency
  - (iii) transportation and
  - (iv) deficiency

OR

- (b) Describe the regulation of electrolyte balance in humans.

P.T.O.



2. (a) Explain on dietary fibre in terms of

- (i) significance
- (ii) classification
- (iii) deficiency disorders
- (iv) requirements

OR

(b) Explain on

- (i) significance of dietary iron in our body
- (ii) metabolism, transportation and absorption
- (iii) disorders of deficiency

(2 × 15 = 30 Marks)

PART – II

All questions carry equal marks. No answers should exceed 2 pages.

3. (a) Explain fluorine in terms of

- (i) physiological function
- (ii) fluorine and dental caries
- (iii) sources.

OR

(b) Explain the factors affecting BMR.



4. (a) Discuss the factors affecting bioavailability of calcium.

OR

- (b) Computation of protein requirements through

(i) factorial methods

(ii) dietary methods.

(2 × 10 = 20 Marks)

PART – III

Answer **any five** questions, each not exceeding **one** page

5. (a) Sources of phosphorus

(b) PEM

(c) Vitamin A and vision

(d) Aminoacid imbalance

(e) Calcium phosphorus ratio.

(f) Fibre for health

(g) Deficiency of protein

(5 × 5 = 25 Marks)

