



(Pages : 2)

**E – 3901**

Reg. No. : .....

Name : .....

**Fourth Semester M.Sc. Degree Examination, July 2018**

**Branch : Home Science**

**X D – FOOD AND NUTRITION/ X E – NUTRITION AND DIETETICS**

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

**(2013 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 75

**PART – I**

**All questions carry equal marks. No answers should exceed four pages.**

1. a) Explain the importance of carbohydrates for our body. How carbohydrates are digested and utilized in the body ?

OR

- b) Explain direct and indirect calorimetry. Discuss different methods used for measuring energy requirements of an individual.

2. a) Discuss the various methods for the evaluation of protein quality in foods.

OR

- b) Give the chemical and biochemical features of Kwashiorkor and Marasmus. How will you treat the condition through dietary approach ?

**(15×2=30 Marks)**

**PART – II**

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

3. a) Explain lipid metabolism in human body.

OR

- b) What is dietary fibre ? Write the function and health benefits of dietary fibre.

P.T.O.



4. a) Write the role of amino acids in the body.

OR

b) Explain the factors affecting energy expenditure in physical activity.

(10×2=20 Marks)

PART – III

Answer **any five** questions **not** exceeding **two** pages.

5. a) Dietary fibre and life style diseases.

b) Basal Metabolic Rate.

c) Chronic Energy Deficiency (CED).

d) Glycemic Index.

e) Conjugated Proteins.

f) Poly Unsaturated.

g) Enzymes in protein digestion.

(5×5=25 Marks)

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