

TM171510E

Reg. No:

Name:

M. Sc. DEGREE (C.S.S.) EXAMINATION, NOVEMBER 2017
SEMESTER I – HOME SCIENCE (FOOD SCIENCE AND NUTRITION)
(2017 Admission Regular, 2016 Admission Supplementary/Improvement &
2015 Admission Supplementary)
FN1C02TM – ADVANCED NUTRITION 1

Time: Three Hours

Maximum marks: 75

PART A

I. Answer any five questions. Each question carries 3 marks.

1. What is Grehlin?
2. Write a note on Adaptive Thermogenesis.
3. Write a note on Glucose Transporters
4. What is meant by obligatory nitrogen losses?
5. What are eicosanoids?
6. Write a short note on paracellular calcium absorption.
7. What is hyponatremia?

(5x3=15)

PART B

II. Answer any six questions. Each question carries 5 marks.

8. Explain the components of energy metabolism.
9. Bring out the hormonal control of carbohydrate homeostasis.
10. Suggest the ways of improving protein quality of vegetarian diets.
11. Give an account of various types of lipoproteins.
12. Discuss the mechanisms of calcium absorption.
13. Discuss the functions and sources of phosphorus in our diet.
14. What is the significance of Ca:Ph ratio in diet?
15. Discuss the signs and symptoms of magnesium deficiency.
16. Describe the regulation of electrolyte balance in humans.

(6x5=30)

PART C

III. Answer any two questions. Each question carries 15 marks.

17. Discuss the current methodology for determining energy requirements.
18. Discuss fiber under the following heads : a) Types b) The importance of fiber in human nutrition c) Requirement for adults.
19. Elaborate on the protein digestion and transport.
20. Bring out the role of essential fatty acids in our diet. Critically evaluate the various fats used in Indian diet.

(2x15=30)