TM171520E	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)

FN1C03TM - NUTRITIONAL BIOCHEMISTRY

Time: Three Hours Maximum Marks: 75

PART A

- I. Write short notes on any five questions. Each question carries 3 marks.
- 1. Glycogenolysis
- 2. -oxidation
- 3. Ketosis
- 4. Albinism
- 5. Plasmids
- 6. Differentiate DNA and RNA.
- 7. Coupled reactions in Energy transfer

(5x3=15)

PART B

- II. Answer any six questions. Each question carries 5 marks.
- 8. Explain De novo synthesis of Fatty acids.
- 9. Give an outline of Glycolysis.
- 10. Explain the urea cycle.
- 11. What are antioxidants? Explain the term 'free radical scavenging'.
- 12. Explain types of hyperlipidemias.
- 13. Elaborate the role of high energy phosphates in energy metabolism.
- 14. Explain the process of DNA replication.
- 15. Write a note on structure of proteins.
- 16. Describe epimerism and optical isomerism with suitable examples.

(6x5=30)

PART C

- III. Answer any two questions. Each question carries 15 marks.
- 17. Give an account of electron transport chain and oxidative phosphorylation.
- 18. Give an account of protein biosynthesis.
- 19. Discuss the mechanism of HMP shunt.
- 20. Discuss biosynthesis of cholesterol and regulatory mechanisms.

(2x15=30)