

Uttar Pradesh Rajarshi Tandon Open University, Prayagraj

Assignment-2020-2021

Master of Science Food and Nutrition (M.Sc. FN)

Subject : Food and Nutrition

Course Title : Advanced Nutritional Biochemistry

Subject Code : MFN -102

Course Code : MFN -102

Maximum Marks: 30

Section – A

Maximum Marks: 18

Note: Long Answer type Questions. Answer should be given in 800 to 1000 words.

Answer all questions. All questions are compulsory

- 1- What are monosaccharide's, Polysaccharides and oligosaccharides ? Give examples with their chemical structure. 6
- 2- What are the chemical active forms of Thiamine, Riboflavin and Niacin? Mention their role in metabolisms. 6
- 3- Write down the significance of citric acid cycle. Describe the reactions involved in ATP generation in the cycle. 6

Section – B

Maximum Marks: 12

Note: Short Answer type Questions. Answer should be given in 200 to 300 words.

All questions are compulsory

- 4- Discuss briefly the chemistry and functions of phospholipids. 2
- 5- Present the structure and classification of nucleic acid. 2
- 6- How is biosynthesis of cholesterol regulated by the amount of cholesterol in diet 2
- 7- Define glycolysis and gluconeogenesis. 2
- 8- Write down the functions of plasma proteins. 2
- 9- Define proteoglycans. 2