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24-BC-23

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

**BIOCHEMISTRY
Paper - III
[Nutritional Biochemistry]**

*[Max. Marks : 75]**[Time : 3:00 Hrs.]**[Min. Marks : 26]*

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Define BMR. Explain methods of its measurement and factors affecting BMR. (15 Marks)

OR

Write notes on -

- i) Respiratory quotient.
- ii) Energy requirement of the human beings.

Q. 2 Describe different types of dietary carbohydrates with their utilization and functions. (15 Marks)

OR

Describe nutritional aspects, requirements and functions of lipids.

Q. 3 Describe quality of proteins with digestibility co-efficient and net utilization. (15 Marks)

OR

Write notes on -

- i) Nitrogen Balance.
- ii) Biological value of Proteins.
- iii) Amino acids score.

Q. 4 Discuss dietary sources, biochemical functions and deficiency disorders of vitamins A, D and E. (15 Marks)

P.T.O.

OR

Describe nutritional significance, sources, daily requirement and deficiency disorders of dietary calcium and phosphorus.

Q. 5 Describe recommended dietary allowances for different categories of human beings. (15 Marks)

OR

Write notes on -

- i) Protein energy malnutrition.
- ii) Starvation.

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