

B.Pharm.First Year Second Semester Examination 2023.

Subject:Biochemistry(BP203T)

Full Marks:75

Time-3hrs

Answer any five questions taking at least two from each group

Group A

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| 1. Write in details about Citric acid cycle including energetics. | 15 |
| 2. Explain about glycolysis pathway including energetic and significance. | 15 |
| 3. Classify Biomolecules. Mention their biological role. | 15 |
| 4. Describe HMP Shunt including significance. | 15 |

Group B

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| 1. | a) Write an account on the structures of proteins. | [7] |
| | b) Discuss in detail about various qualitative tests of proteins. | [8] |
| 2. | a) Discuss in detail about biosynthesis of melatonin. | [6] |
| | b) Write an account on the catabolism of branched chain amino acids. | [5] |
| | c) Write short note on human genetic disorders due to amino acid metabolism. | [4] |
| 3. | a) Discuss metabolic disorders related to urea cycle. | [4] |
| | b) Discuss the metabolism of aromatic amino acids. | [6] |
| | c) Discuss the metabolic fate of amino acids. | [5] |
| 4. | a) Write notes on oxidative and non-oxidative deamination. | [6] |
| | b) Discuss the diseases related to catabolism of phenylalanine. | [5] |
| | c) Write a short note on peptides. | [4] |