

BIOTECHNOLOGY

Paper 2: Biological Chemistry and Microbiology

Time: 3 hours

Max. Marks: 80

SECTION – A

Answer ALL questions

4 x 15 = 60

1. a) Write and Nomenclature of classification of Enzyme with suitable examples?

Or

b) Define carbohydrate? Add in detail on any three homopolysaccharides?

2. a) Write about citric acid cycle?

Or

b) Write about metabolic reactions of amino acids?

3. a) Add a note on biological data bases?

Or

b) Explain normal distribution and their role in Biology?

4. a) Explain the principle, instrumentation and application of UV- Visible Spectroscopy?

Or

b) Describe the importance of radioisotopes in Biology?

SECTION - B

Answer any FOUR questions

4 x 5 = 20

5. Classification of amino acids

6. Phospholipids

7. Transamination

8. Chemiosmotic theory

9. DDBJ

10. t-test

11. TLC

12. SDA –PAGE

Practical Model Question Paper

Paper 2: Biological Chemistry, Biostatistics and Bioinformatics

Time: 3 hours

Max. Marks: 50

1. Colorimetric estimation of any metabolite (carbohydrate/ protein) 20 M

Or

Qualitative analysis of sugars or amino acids/ separation of amino acids paper chromatography

2. Graphical representation of statistical data 10M

3. Spotters (4x2.5) 10M

4. Record & Viva-voce 10 M

Total 50 M