

B.Sc. Examination / OCT - 2015

Semester - VI

Paper Name: Mi-601-Fundamental Biochemistry

PaperCode: 4643

Time: 2:30 Hours

Total Marks: 70

Instructions: (a) Figure to the right indicates total marks of respective question.

(b) Draw neat, clean and labeled diagram wherever necessary.

- 1.(a) Explain : Free energy & reactions. 10
1.(b) Write a note on:Gibbs free energy. 04

OR

- 1.(a) Explain: Oxidation- reduction reaction & standard reduction potential. 10
1.(b) Enlist the laws of thermodynamics. 04

- 2.(a) Discuss: Antibiotics inhibiting cytoplasmic membrane synthesis. 10
2.(b) Explain: Factors affecting microbial control. 04

OR

- 2.(a) Describe: Principle of microbial control. 10
2.(b) Write a short note on: Penicillin. 04

- 3.(a) Describe : Antimicrobial assay in body fluids. 10
3.(b) Explain: Primary disc diffusion test. 04

OR

- 3.(a) Discuss: Agar dilution test. 10
3.(b) Explain: Stokes disc diffusion test. 04

- 4.(a) Explain:The role of ATP & other high energy compounds in metabolism. 10
4.(b) Explain in brief: Enthalpy 04

OR

- 4.(a) Describe: Principle & concept of chemotherapy. 10
4.(b) Explain: Antibiotics affecting RNA synthesis. 04

- 5.(a) Explain: Disc diffusion test. 10
5.(b) Explain: Kirby-Bauer disc diffusion test. 04

OR

- 5.(a) Explain: Alteration in cell membrane function using antibiotics. 10
5.(b) Define : Energy & types of work. 04