

April - 2016
B.Sc. Examination
Semester - VI

Paper Name: Mi-601-Fundamental Biochemistry
Time: 2:30 Hours

PaperCode : 4643
Total Marks: 70

Instructions: (a) Figure to the right indicates total marks of respective question.
(b) Draw neat, clean and labeled diagram wherever necessary.

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| 1.(a) Explain : Redox reactions & standard reduction potential. | 10 |
| 1.(b) Define: Entropy & Enthalpy. | 04 |

OR

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| 1.(a) Explain: The role of ATP & other high energy compounds in metabolism. | 10 |
| 1.(b) Name any 4 electron carriers. Explain their role in metabolism. | 04 |

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| 2.(a) Explain: The mechanism of drug resistance.. | 10 |
| 2.(b) Write a short note on: Streptomycin. | 04 |

OR

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| 2.(a) Discuss: Antibiotics inhibiting cell wall synthesis.. | 10 |
| 2.(b) Explain: Antibiotics affecting DNA synthesis. | 04 |

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

OR

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| 3.(a) Discuss: Disc diffusion test. | 10 |
| 3.(b) Explain: Kirby-Bauer disc diffusion test. | 04 |

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| 4.(a) Explain: Free energy & work. | 10 |
| 4.(b) Enlist the laws of thermodynamics. | 04 |

OR

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| 4.(a) Describe: Principles of microbial control. | 10 |
| 4.(b) Write short note on: Tetracycline. | 04 |

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| 5.(a) Describe: Antimicrobial assay of body fluids. | 10 |
| 5.(b) Explain: Primary disc diffusion test. | 04 |

OR

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| 5.(a) Explain: Nature of target site affected by antimicrobial agent. | 10 |
| 5.(b) Explain: Factors affecting microbial control. | 04 |