

GANDHI P.R. COLLEGE, BHOPAL

Assignment-2020-21

M.Sc-Ist SEM

Biotechnology

Paper-I

Q.1 Write short notes on :- (any five)

- a) Chemical bonds and functional groups in biological molecules.**
- b) Structural & functional organization of cell membrane.**
- c) Biogenesis of mitochondria**
- d) Steps of cell cycle**
- e) Cytoskeleton and cell motility**
- f) nature of the genetic material.**

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Paper-II

Q.1 Write short notes on :- (any five)

- a) Law of Mass action.**
- b) Structure and function of Sugar.**
- c) Regulation of carbohydrate metabolism.**
- d) Essential and not essential amino acids.**
- e) General structure & functions of purins.**
- f) Beta-oxidation of fatty acids.**
- g) Regulation of lipid metabolism.**

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General & Applied Microbiology

Paper-III

Q.1 Attempt any five

- 1- Methods of Microbiology**
- 2- Ribosomal RNA sequencing.**
- 3- Bacterial generation and doubling time.**
- 4- Antimicrobial agents**
- 5- resistance of antibiotics**
- 6- Symbiotic association types**
- 7- Pseudomonas putida.**

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Paper-IV

Biotechnology

Bioinstrumentation

Q.1 Attempt any five

- 1- Principles & Applications of Light**
- 2- Density Gradient Centrifugation.**
- 3- Elisa**
- 4- Visible spectroscopy**
- 5- Autoradiography**
- 6- Biological Applications of Radios topic techniques.**