MPY-102

M.Pharmacy I Semester

Examination, November 2019

Biotechnology and Bioinformatics

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- What do you mean by term "genetics"? Write a detail note on DNA-replication and discuss how it preserve genetic informations.
- Define and discuss the term "recombination". Write a complete note on rDNA technology with reference to bioproduction of any one hormone.
- 3. Write a detail note "Gene therapy" and its clinical significance.
- Define and classify immune system. Write a detail note on modern vaccine technology.
- 5. Write short notes on any two:
 - a) Cell signaling

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- b) Transport mechanism across cell membranes
- c) Monoclonal antibodies and its applications.

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- Write an exhaustive note on molecular biology of cancer and new strategies for combating cancer.
- Write short notes on any two :
 - a) Sampling and sampling plans
 - b) Probability distribution
 - c) Application of bioinformatics in pharma. Industries.
- 8. Write short notes on : (Any two)
 - a) Structural biology and rational drug design
 - Molecular biology of disease and invivo transgenic models.
 - Biological databases and its applications in drug research industries.

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