PD-553

M.Sc. Biotechnology

3rd Semester Examination, Dec 2020

Paper-II

Genetic Engineering

Time: Three Hours] [Maximum Marks: 80

[Minimum Pass Marks: 29

Note: Answer from **both** the sections as directed. The figures in the right-hand margin indicate marks

Section-A

1. **Answer the following questions:** 1X10
   (a) Write one example for restriction enzyme.
   (b) Define cloning.
   (c) Write one example for molecular marker.
   (d) What is cDNA?
   (e) What is a primer?
   (f) What is DNA transfection?
   (g) What is t-element?
   (h) What is gene knockout?
   (i) What is linker?
   (j) What is a patent?

2. **Answer the following questions:** 2X5
   (a) Write a note on Genetic engineering guidelines.
   (b) Write about two hybrid systems.
   (c) Write a note on primer extension.
   (d) Explain in brief about stabilization of proteins.
   (e) Write a note on scope of genetic engineering.

Section - B

Unit-I

Answer the following questions: 15X4

3 Explain in detail on PCR and cloning.

OR

Write an essay on molecular tools and their applications.

Unit-II

4 Explain in detail on artificial chromosomes.

OR

Write an essay on restriction mapping of DNA fragments and map construction.

Unit-III

5 Write an essay on host engineering.

OR

Write an essay on site directed mutagenesis.

Unit-IV

6 What is gene therapy? Explain in detail.

OR

Write an essay on processing of recombinant proteins.

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