

A (Printed Pages 4)
(20222) Roll N^o
M.Sc.(Biotech.)-III Sem.

NP-3341 (CV-III)

M.Sc. (Biotechnology)

Examination, Dec. - 2021

GENOMICS AND PROTEOMICS

[(H-304) M.Sc. (Biotech.)]

Time : 1½ Hours / [Maximum Marks : 50

Note : Attempt questions from **all** sections
as per instructions.

Section - A

(Very Short Answer Questions)

Note : Answer any **two** questions. Each
question carries **5** marks. Very short
answer is required. $2 \times 5 = 10$

1. What do you understand by Protogenome
and RNA world?

P.T.O.

2. What is clone by clone sequencing?
3. What is shotgun sequencing?
4. What is the use of SNP in
pharmacogenomics?
5. What are protein chips?

Section - B

(Short Answer Questions)

Note : Answer any **one** question from this
section. Each question carries 10
marks. Short answer is required.

$1 \times 10 = 10$

6. Write a detail note on MALDI.
7. Comment upon Drug toxicology.
8. Genome sequencing.

Section - C

(Detailed Answer Questions)

Note : Answer any **two** questions from this
section. Each question carries 15

NP-3341(CV-III)/2

marks. Answer is required in detail.

$$2 \times 15 = 30$$

9. Describe in detail about yeast two hybrid system and their applications.
10. Describe the role of proteomics in cancer research.
11. Write note on
 - (a) Genetic maps
 - (b) Physical maps
 - (c) Transcript maps
 - (d) Functional maps
12. Write a detail note on
 - (a) Arabidopsis genome
 - (b) Human genome

13. Give a detail account on "How Genomes Evolve".