

NP-3340 (CV-III)

M.Sc. (Biotechnology)

Examination, Dec. - 2021

Animal Biotechnology and Immunology

(H-303)

(M.Sc. Bio-Tech.)

Time : 1½ Hours] [Maximum Marks : 50

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

Section-A

(Very Short Answer Questions)

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

1. Spleen

2. Difference between Humoral and cell mediated immunity
3. RIA
4. Structure of IgG
5. Interferen

Section-B

(Short Answer Questions)

Note : Attempt any **one** question. Each
question carries 10 marks. Short
answers are required. $1 \times 10 = 10$

6. Write a note on Antigen-Antibody interaction.
7. What is cell culture? How the cells are maintained in culture and what are the different kinds of cell culture media?

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8. Write short notes on-
- (a) Ethical and social issues related to human cloning.
 - (b) B lymphocytes

Section-C

(Detailed Answer Questions)

Note : Attempt any **two** questions. Each question carries 15 marks. Long answers are required. $2 \times 15 = 30$

9. Write in detail on major Histocompatibility Complex (MHC) and complements.
10. Write notes on:-
- (a) Somatic cell fusion
 - (b) Auto immune diseases
11. What is Embryo transfer technology? What are the application of Embryo transfer technology?
12. Write an essay on Antigen-Antibody Interactions?

13. What is Hybridoma technology? What is the method for the production of monoclonal antibodies? What are the applications of Monoclonal Antibodies?