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NP-3340

M.Sc. (Biotechnology) Examination,

November-2019

ANIMAL BIOTECHNOLOGY AND

IMMUNOLOGY

M.Sc. (Biotech.)

(H-303)

Time: Three Hours!

[Maximum Marks: 50]

Note: Attempt questions from all sections as per instructions.

Section-A

Very Short Answer Questions

Note: Attempt ail the five questions. Each question carries 2 marks. Very short answer is required not exceeding 75 words. $5\times2=10$

- Cytokines
- Immunity
- 3. Hapten

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- Lymph nodes
- Artificial Skin 5.

Section-B **Short Answer Questions**

Note: Attempt any two questions out of the following three questions. Each question carries 5 marks. Short answers required not exceeding 200 words.

 $2 \times 5 = 10$

- Define autoimmunity and describe two autoimmunity diseases.
- Describe five structure of IGg and its diversity.
- 8. Write strategies for the development of vaccines.

Section-C **Detailed Answer Questions**

Note: Attempt any three questions out of the following five questions. Each question carries 10 marks. Answer is required in detail. 10×3=30

9. Write an essay on antigen and antibody reactions.

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- What do you mean by tissue and organ culture summerise is methods in detail.
- 11. Write notes on:
 - (a) ELISA
-) (b) MHC
- 12. What is animal cloning? Describe in detail the ethical and social issues regarding with human cloning.
- 13. Write notes on:
 - (a) Transgenic animal
 - (b) in vitro fertilization

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