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Code No. 6514

FACULTY OF SCIENCE

B.Sc. V Semester (CBCS) Examination, March 2022

Subject: Zoology

Paper – V (C) : Immunology & Animal Biotechnology

Time: 3 Hours **Max. Marks: 80**

PART – A

Note: Answer any eight questions. **(8 x 4 = 32 Marks)**

1. Cells of the Immune system
2. Types of Immunity
3. Phagocytosis
4. Antibodies
5. Adjuvants
6. Immunodeficiency diseases
7. Plasmids
8. Shuttle vectors
9. Cosmids
10. Invitro Fertilization
11. Embryo transfer
12. Stem cells

PART – B

Note: Answer any four questions. **(4 x 12 = 48 Marks)**

13. Write in detail about the first line of defenses and add a note on Inflammation.
14. Explain Major Histocompatibility Complex (MHC) with structure & function of class I and class II proteins.
15. Describe hypersensitivity reactions.
16. Describe monoclonal antibodies and applications.
17. Explain transgenesis and methods of transgenesis.
18. Explain Scope of Animal Biotechnology.
19. Elucidate on hybridoma Technology.
20. Elucidate on Animal Bioreactors.

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Code No. F-15415

FACULTY OF SCIENCE

B.Sc. (CBCS) V Semester Examination, December 2023 / January 2024

Subject: Zoology

Paper – V (C) : Immunology and Animal Biotechnology

Time: 3 Hours **Max. Marks: 80**

PART – A

Note: Answer any eight questions. **(8 x 4 = 32 Marks)**

1. B lymphocytes
2. Inflammation
3. Humoral immunity
4. Ig G
5. Haptens
6. Rheumatoid arthritis
7. Cosmids
8. Yeast episomal plasmid
9. Transgenic sheep
10. Types of stem cells
11. Bacillus thuringiensis
12. IVF

PART – B

Note: Answer all the questions. **(4 x 12 = 48 Marks)**

13. (a) Define immunity and explain various types of immunity.

(OR)

(b) Explain structure and function of major histocompatibility.

14. (a) Write an essay on monoclonal antibodies and its applications.

(OR)

(b) Define hypersensitivity and explain various hypersensitivity reactions.

15. (a) What is Transgenesis and explain various methods of Transgenesis.

(OR)

(b) Explain recombinant DNA technology and its applications.

16. (a) Explain concept of animal bioreactors and its application.

(OR)

(b) Explain concept of Biopesticides.

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