

G-4/444(B)/21

Roll No.

M.Sc. IV Semester Examination, 2021

ZOOLOGY

Paper IV (B)

(Immunopathology and Immunotechniques)

Time : 3 Hours]

[Max. Marks : 80

Note : All questions are compulsory. Question Paper comprises of 3 sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.

SECTION A

1×8=8

(Objective Type Questions)

Note : Answer in one words :

1., is an Antigen-Antibody reaction brought by exotoxin and antitoxin.
2. Pentamer antibody is
3. Antibody which can cross the placenta and provides protection to developing foetus is
4. Solid tumour of connective tissue is known as
5. Chronic autoimmune disease characterized by muscular weakness is P.T.O.

[2]

6. Filariasis is caused by which parasite
7. Least rejected organ during transplantation is
8. Virus which caused Bird flu is

SECTION B

4×6=24

(Short Answer Type Questions)

Note : Attempt one question from each unit.

Unit-I

1. Explain how Bacteria evade exposure to immune system.

Or

Explain immunology of malaria

Unit-II

2. Explain structure and HIV with diagram.

Or

Explain X-linked hyper IgM syndrome (X-HM).

Unit-III

3. Explain autoimmune disease with an example.

Or

Explain Graft rejection.

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[3]

Unit-IV

4. Explain precipitation in the immune system.

Or

Explain Agglutination technique in Ag-Ab interaction.

SECTION C

12×4=48

(Long Answer Type Questions)

Note : Attempt one question from each unit.

Unit-I

1. Describe immune response to extracellular and intracellular bacterial infection.

Or

Explain the role of Innate Immunity in controlling viral infection.

Unit-II

2. Explain severe combined immuno deficiency diseases (SCIDS)

Or

Describe deficiencies of complement components.

Unit-III

3. Write down the strategies for the treatment of autoimmune diseases.

[4]

Or

Explain tolerance. Describe types of tolerance.

Unit-IV

4. Describe production of monoclonal antibodies with its applications.

Or

Explain Immunoelectrophoresis.

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