

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) .

BSc DEGREE EXAMINATION MAY 2018
(Sixth Semester)

Branch - ZOOLOGY

IMMUNOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks!

Answer ALL questions

ALL questions carry EQUAL marks (10x2 = 20)

- 1 Innate immunity.
- 2 T-lymphocytes.
- 3 Epitope and paratope.
- 4 Precipitation.
- 5 Magic bullet.
- 6 Auto immunity.
- 7 Xenograft.
- 8 Reticular Dysgenesis.
- 9 Simple immunodiffusion.
- 10 HLA typing.

SECTION - B (25 Marks!

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Highlight the immunological functions of Spleen.
OR
b Describe the functions of macrophages.
- 12 a Highlight the mechanism of Humoral immune response.
OR
b Briefly describe the types of antigens.
- 13 a Discuss the structure and functions of class I MHC.
OR
b Explain antibody mediated hypersensitivity reaction.
- 14 a Explain the immune response against Helminth parasites.
OR
b Write an account of immunization schedule for children:
- 15 a Explain the advantages of using solid-phase antigens in ELISA.
OR
b Describe the synthesis of monoclonal antibodies.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Write an essay on acquired immunity with suitable examples.
- 17 Discuss the salient features of antigen and antibody reactions.
- 18 Discuss any three autoimmune diseases with a note on their origin, symptoms and treatment.
- 19 Elaborate the immune mechanism in graft rejection.
- 20 Analyse the principle, working mechanism and applications of immuno electrophoresis.