

Please check whether you have got the right question paper.

- N.B:**
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw neat labelled diagrams wherever necessary.

- Q1.** Answer the following (Any Two) 12
- 1) Diagrammatically explain Gell and Coomb's classification for hypersensitive reactions.
 - 2) Describe in brief the different components involved in Type I hypersensitive reactions.
 - 3) With the help of any two examples explain organ specific autoimmune diseases.
 - 4) Monoclonal antibodies can be used for treatment of Autoimmunity-Justify.
- Q2.** Answer the following (Any Two) 12
- 1) Diagrammatically explain the process of graft acceptance and rejection
 - 2) Write a note on any two methods used for HLA typing
 - 3) Explain in brief the steps involved in hyper acute rejection of kidney graft.
 - 4) Give detailed account on general immunosuppressive therapies used during transplantation.
- Q3.** Answer the following (Any Two) 12
- 1) Elaborate on: 'Viruses can induce tumors'.
 - 2) Describe the role of cancer associated genes in cellular proliferation.
 - 3) Explain the procedure used for identifying genes coding for TSTA's.
 - 4) With the help of suitable example explain the induction of cancer as a multistep process.
- Q4.** Give an account on "Acquired immunodeficiency". 12
- OR**
- Q4.** p. How are primary immunodeficiencies treated? 06
q. Explain different types of defects that can lead to SCID. 06
- Q5.** Write short notes on following (Any three) 15
- 1) Arthus reaction
 - 2) Different types of transplants
 - 3) Immune surveillance theory
 - 4) NK cells in cancer
 - 5) Common variable immunodeficiency
 - 6) Chediak-Higashi Syndrome.