

Thapar Institute of Engineering and Technology
End semester Examination
B Tech. (4th Year)
(BT-013) Virology & Immunology

13.12.06
Time: 3hour

Max. Marks: 60

Course Instructor: Dr Abhijit Ganguli;

Attempt any five questions

- Q 1. Define Autoimmunity. Give relevant examples to explain the phenomenon. (6+6)
- Q2. Describing briefly about antigens and antibodies, explain on their importance. Give examples where suitable. (4+8)
- Q3. State the essential features of Hypersensitivity. Using a schematic diagram show the routes through which allergens can enter the human body; state a simple test that you will use to identify that a drug is allergenic to your system. (4+2+6)
- Q4. Explain the safety levels which need to be adopted for a Virology laboratory. Name two recent viruses of great concern. (8+4)
- Q5. Give an account of ELISA. Justify its utility as a rapid a tool for detection of antigens. (6+6)
- Q6. Describe the structure of viruses. Explain the mechanism of phage infection. Name one bacteriophage. (4+6+2)
- Q7. Write short notes on: Transformation (b) Apoptosis (6+6)