

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – WINTER 2013****Subject Code: 150402****Date: 29-11-2013****Subject Name: Immunology****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Discuss in brief the classification of immunity. **07**
(b) Draw a labeled diagram of any one secondary lymphoid organ and explain its function. **07**
- Q.2** (a) With the help of neat diagram explain indirect ELISA. **07**
(b) What is immunogenicity? What are the factors influencing immunogenicity? **07**
- OR**
- (b) Draw a labeled diagram of Ig. Enlist its different classes. **07**
- Q.3** (a) Explain the steps involved in complement activation. **07**
(b) Explain double-immunodiffusion. **07**
- OR**
- Q.3** (a) What are the different functions of complement? **07**
(b) Draw precipitin curve and explain it. **07**
- Q.4** (a) Explain the mechanism of type-I Hypersensitivity. **07**
(b) Explain active and passive immunization. **07**
- OR**
- Q.4** (a) Explain the mechanism of type-III Hypersensitivity. **07**
(b) Write short note on whole organism vaccine. **07**
- Q.5** (a) Explain ELISPOT method for detection of antibody. **07**
(b) Write short note on malaria. **07**
- OR**
- Q.5** (a) Give overview of transplantation immunology. **07**
(b) Write short note on any one air born transmitted disease. **07**
