

B.Sc Examination March, March 2015

Semester VI

PaperName : 602 Fundamental Immunology

Paper Code: 4644

Time : 2.30 hrs

Total Marks : 70

Instructions : (a) Figures to the right indicates total marks of respective questions

(b) Draw neat, clean and labeled diagram wherever necessary

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| 1 | (a) Define Antibody. Explain various classes of Immunoglobulins | (10) |
| | (b) Write a short note on Haptens | (4) |
| OR | | |
| 1 | (a) Explain Autospecificity | (10) |
| | (b) Explain characters that determine antigenicity | (4) |
| 2 | (a) Explain ELISA | (10) |
| | (b) Explain RIA | (4) |
| OR | | |
| 2 | (a) Explain Complement Fixation Test | (10) |
| | (b) Explain Western Blotting | (4) |
| 3 | (a) What is HyperSensitivity? Explain Type II | (10) |
| | (b) What are Autoimmune diseases? Explain Insulin Dependent Diabetes Mellitus | (4) |
| OR | | |
| 3 | (a) Explain Monoclonal Antibodies | (10) |
| | (b) What are Immunodeficiency disorders? Explain Immune disorder Involving Thymus | (4) |
| 4 | (a) Explain role of B cells and T cells in antigen specificity | (10) |
| | (b) What is isospecificity and organ specificity? | (4) |
| OR | | |
| 4 | (a) Briefly explain Precipitation and Agglutination Reactions | (10) |
| | (b) Explain Opsonisation | (4) |
| 5 | (a) Explain Type I and Type IV Hypersensitivity | (10) |
| | (b) SN: Properties and biologic effect of complement | (4) |
| OR | | |
| 5 | (a) Explain Type III Hypersensitivity | (10) |
| | (b) Explain Immunoflorescence Technique | (4) |