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**SVS 328 B - 14**  
**B.Sc. Vth Semester Degree Examination**  
**Biotechnology (Opt)**  
**(Immunology)**  
**Paper - 5.5**

Time : 3 Hours

Maximum Marks : 80

**Instructions to candidates:**

1. Answer all the questions
2. Draw diagrams wherever necessary

**I** Answer the following in one word / sentences each

**(15 X 1=15)**

- 1) Haptens
- 2) Opsonisation
- 3) Antigen
- 4) Role of Tc-cells
- 5) Hybridoma cells
- 6) Antigen presenting cells
- 7) Colostrum
- 8) Allergy
- 9) Gene vaccine
- 10) MHCs
- 11) Properdin
- 12) Haemopoiesis
- 13) passive immunity
- 14) Effector phase
- 15) Epitope

**II** Write short note on any five of the following

**(5X5=25)**

- 16) Functions of IgG
- 17) Factors causing hypersensitivity
- 18) Differences between T-cells and B-cells
- 19) Frythroblastosis factalis
- 20) Structure of typical antibody
- 21) Recombinant Vaccines
- 22) Structure of spleen

**III** Write explanatory note on any four of the following

**(4X10=40)**

- 23) Explain various types of innate immunity performed by host
- 24) Explain various types of antigen- antibody reactions
- 25) Describe the process of production of monoclonal antibodies by hybridoma technique.
- 26) Give an account on ABO blood grouping & transfusion of blood
- 27) Describe the structure of various granulocytes & agranulocytes
- 28) Give an account on antigen processing by APCs

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