M.Sc.(Microbiology) CBCS Pattern Semester-IV

PSMBT-15 - Paper-III : Immunology

P. Pages: 1 GUG/W/23/11410 Time: Three Hours Max. Marks: 80 All questions are compulsory and carry equal marks. Notes: 1. 2. Draw diagrams wherever necessary. 1. Write in detail about development and maturation of B and T lymphocytes? 16 OR Which are the most common antigen-presenting cells? Discuss their role in providing 8 a) immunity. What is the process of classical pathway of complement system? 8 b) 2. Write in detail the structure and functions of different types of immunoglobulins. 16 OR Write the principle and procedure of complement fixation test? a) 8 Compare between Southern blotting and western blotting technique? b) **3.** Write in detail about the mechanism of B-cell tolerance and T-cell tolerance. 16 OR What are different types of antoimmune disorders? Give examples. 8 a) Compare the pathogenesis of Hashimoto's disease and Grave's disease. 8 b) 4. What are the different types of lymphatic cancer? Write each type in detail. 16 OR What are tumor markers? How they can be used to differentiate from normal cells? 8 a) What is the mechanism of graft acceptance and rejection? b) 8 5. Write note on-What is the function of MHC I and MHC II? 4 a) What are monoclonal antibodies and give their applications. b) What is the difference between immediate and delayed hypersensitivity? c) d) Write short note on Immuno-suppressive therapy. 4 *****