

Paper I: Basic Immunology (Basic sciences)

Distribution of MCQs and SEQs with respect to the importance of topics

Topics		No. of lectures	No. of MCQ,s	No. of SEQ,s
Innate immunity and inflammation Components of the non-specific immune system <ul style="list-style-type: none"> • Mechanical barriers • Chemical and biochemical barriers • Biology of NK cells, Polymorphonuclear phagocytes, macrophages, and other major cellular components in the innate immunity • Phagocytosis • Opsonization • Receptors and molecules: Cytokines and receptors, chemokines and receptors Pathogen recognition; Toll like receptors, Fc receptor • Antigen • Complement system, pathways, and regulation • Molecular and cellular mechanisms involved in inflammation 		12	30	3
Specific acquired immunity <ul style="list-style-type: none"> • B Cells, Immunoglobulin's (Ig) and humoral immune response • T cells and cell-mediated immune response • The lymphoid system and structure and function of MHC molecules • Molecular basis of immune recognition and tolerance 		10	14	1
		10	14	1
		10	12	1
		10	10	1
Total		60	80	7
Total marks		Total time (estimated)		
MCQs	SEQs	MCQs	SEQs	
80	7	96 minutes	84 minutes	

Paper II:

Medical Immunology (Basic science)

Distribution of MCQs, and SEQs with respect to the importance of topics

Topics		No. of lectures	No. of MCQ,s	No. of SEQ,s
a. Medical Immunology <ul style="list-style-type: none"> • Infections and immunity Hypersensitivity, Transplantation • Autoimmunity, Immunodeficiency Complement disorders • Tumor Immunology, Vaccines, Chimeric and Hybrid Monoclonal Antibodies 		35	50	5
b. Diagnostic immunology <ul style="list-style-type: none"> • Specimen Collection, handling, hazards Quality control • Animal Models and Evaluation of Complement function, cellular immunity, Humoral immunity and Allergy Diagnosis • HLA Typing, MLR, Immunophenotyping of leukemia's 		10	15	1
c. Immunological Techniques <ul style="list-style-type: none"> • Agglutination, Immunoélectrophorèses, Complement fixation tests • ELISA, RIA, Immunofluorescence Flow cytometry, Chemiluminescence Spectrophotometry • PCR, RNAi, microarray, Electrophoresis 		15	15	1
Total		60	80	7
Total marks		Total time (estimated)		
MCQs	SEQs	MCQs	SEQs	
80	7	96 minutes	84 minutes	