

M.PHIL MICROBIOLOGY***Table of Specification (TOS)***

S. NO.	Topics	MCQs	SEQs
	BASIC BACTERIOLOGY		
1.	Bacteria compared with other microorganisms	1	
2.	Structure of bacterial cells	2	
3.	Growth	2	
4.	Genetics	2	
5.	Classification of Medically Important bacteria	2	1
6.	Normal flora	2	
7.	Pathogenesis	4	1
8.	Host defenses	2	
9.	Laboratory diagnosis	2	
10.	Antimicrobial drugs: mechanism of action	4	1
11.	Antimicrobial drugs: resistance	2	
12.	Bacterial vaccines	2	
13.	Sterilization & disinfection	3	1
	CLINICAL BACTERIOLOGY		
14.	Overview of the major pathogens & introduction to anaerobic bacteria	2	
15.	Gram-positive cocci	8	
16.	Gram-negative cocci	2	
17.	Gram-positive rods	2	1
18.	Gram-negative rods related to the enteric tract	8	1
19.	Gram-negative rods related to the respiratory tract	4	
20.	Gram-negative rods related to animal sources (zoonotic organisms)	3	
21.	Mycobacteria	2	
22.	Actinomycetes	2	
23.	Mycoplasmas	2	
24.	Spirochetes	2	
25.	Chlamydiae	1	
26.	Rickettsiae	1	
27.	Minor bacterial pathogens	1	
	BASIC VIROLOGY		
28.	Structure	2	1
29.	Replication	2	1
30.	Genetics & gene therapy		
31.	Classification of medically important viruses		
32.	Pathogenesis	1	
33.	Host defenses	1	
34.	Laboratory diagnose	4	
35.	Antiviral drugs		
36.	Viral vaccines	1	
	CLINICAL VIROLOGY		
37.	DNA enveloped viruses	2	1
38.	DNA nonenveloped viruses	2	
39.	RNA enveloped viruses		
40.	RNA nonenveloped viruses	2	
41.	Hepatitis viruses	4	1
42.	Arboviruses	2	
43.	Tumor viruses		
44.	Slow viruses & prions		
45.	Human immunodeficiency viruses	2	
46.	Minor viral pathogens		

	MYCOLOGY		
47.	Basic mycology	2	
48.	Cutaneous & subcutaneous mycoses	3	1
49.	Systemic mycoses	2	
50.	Opportunistic mycoses	3	
	PARASITOLOGY		
51.	Intestinal & urogenital protozoa	8	1
52.	Blood & tissue protozoa	4	1
53.	Minor protozoan pathogens		
54.	Cestodes	2	
55.	Terematodes	1	
56.	Nematodes	5	
	IMMUNOLOGY		
57.	Immunity	2	
58.	Cellular basis of the immune response	2	
59.	Antibodies	3	1
60.	Humoral immunity	2	
61.	Cell-mediated immunity	3	
62.	Major histocompatibility complex & transplantation		
63.	Complement	2	
64.	Antigen-antibody reactions in the laboratory	6	1
65.	Hypersensitivity (allergy)	2	
66.	Tolerance & autoimmune disease		
67.	Tumor immunity		
68.	Immunodeficiency	3	
	Total	150	15