

MSc Sem.-1 Examination

404

Bio-Medical Technology

February-2025

Time : 2-30 Hours]

[Max. Marks : 70

Q-I	1	Write down life cycle, pathogenicity, clinical features, laboratory diagnosis and prophylaxis of <i>Plasmodium malariae</i> .	(07)
	2	What are the different sources of infection? Write down infections caused by food, insect vectors and animals in detail.	(07)
	OR		OR
	1	Write down life cycle, pathogenicity, clinical features, laboratory diagnosis and prophylaxis of <i>Trichomonas vaginalis</i> .	(07)
	2	What are the different modes of infection in medical parasitology?	(07)
Q-II	1	Explain: Life cycle of <i>Clonorchis sinensis</i>	(07)
	2	Explain: Pathogenesis, Laboratory diagnosis and prophylaxis of <i>Schistosoma mansoni</i>	(07)
	OR		OR
	1	Explain: Life cycle of <i>Onchocerca volvulus</i>	(07)
	2	Explain: Arthropod vectors and their role in parasitology	(07)
Q-III	1	Explain the bacterial growth curve and various factors affecting it.	(07)
	2	Discuss milestones in the history of microbiology and write about the scope of microbiology.	(07)
	OR		OR
	1	Explain various methods used to isolate microorganisms and write the pros and cons of each.	(07)
	2	What is a bacterial endospore, and what is its function? Describe the principle and steps involved in bacterial endospore staining with examples.	(07)
Q-IV	1	Write down the, symptoms, diagnosis, treatment and prevention of the tuberculosis and typhoid diseases in detail.	(07)
	2	Briefly explain: Candidiasis & Aspergillosis.	(07)
	OR		OR
	1	What is Methicillin-resistant <i>Staphylococcus aureus</i> ? Write down its symptoms, diagnosis, treatment in detail.	(07)
	2	Explain in detail: Herpes viral infection in human.	(07)
Q-V	Answer any SEVEN out of TWELVE.		(14)
	1	Which are the diseases caused by only direct transmission?	02
	2	Which are the diseases caused by <i>Balantidium</i> ?	02
	3	Give any two laboratory diagnosis of <i>Giardia</i> .	02
	4	Give names of parasites associated with malignancy.	02
	5	Give scientific name of two Filarial worms.	02
	6	Write two major difference between plathyhelminthes and nemathelminthes parasites,	02
	7	Define – 'Pasteurization'.	02
	8	What is culture media used in Microbiology?	02
	9	Define – 'halophiles' and write 2 examples of halophiles.	02
	10	What is bacterial meningitis?	02
	11	What is Athlete's foot? Which is a causative pathogen for Athlete's foot?	02
12	Which are the diagnostic methods used for Human Papillomavirus infection in human?	02	