

M.Sc. Sem.-1 Examination

404

Bio-Medical Technology

January-2024

Time : 2-30 Hours]

[Max. Marks : 70

Q-I	1	What are the general characteristics and classification of Protozoans.	(07)
	2	Write down life cycle, pathogenicity, clinical features, laboratory diagnosis and prophylaxis of <i>Trichomonas vaginalis</i> .	(07)
	OR		OR
	1	Explain in detail: Diagnosis methods in medical parasitology.	(07)
	2	Write down life cycle, pathogenicity, clinical features, laboratory diagnosis and prophylaxis of <i>Balantidium coli</i> .	(07)
Q-II	1	Explain: Life cycle of <i>Taenia Solium</i> .	(07)
	2	Describe: Pathogenesis, laboratory diagnosis and prophylaxis of <i>Clonorchis sinensis</i> .	(07)
	OR		OR
	1	Explain: Life cycle of <i>Ancylostoma duodenale</i> .	(07)
	2	Explain: Arthropod vectors and their role in parasitology.	(07)
Q-III	1	Define generation time and explain the bacterial growth curve in detail.	(07)
	2	Explain various factors affecting bacterial growth.	(07)
	OR		OR
	1	Explain the principle, procedure, and interpretation of capsule staining and give examples of capsule-producing bacteria.	(07)
	2	Explain the principle, working and application of a hot air oven and autoclave in detail.	(07)
Q-IV	1	Write a note on candidiasis & aspergillosis infection in human.	(07)
	2	Write down the causative pathogen, parts affected, clinical aspects of the disease, diagnostic methods, and treatment of Influenza and Polio virus in detail.	(07)
	OR		OR
	1	What are the common pathogenic bacterial diseases of human beings? Explain any two in detail.	(07)
	2	Explain the clinical aspects, diagnostic methods and treatment of Measles, Mumps and Chickenpox in detail.	(07)
Q-V	Answer any SEVEN out of TWELVE.		(14)
	1	Write down any four specific culture media used for individual parasite culture.	02
	2	Definition of metacyclic trypomastigotes?	02
	3	What is dipstick test for detection of malarial parasites?	02
	4	Give names of parasites associated with malignancy.	02
	5	Give scientific name of Guinea worm.	02
	6	Any two characteristics of helminthes parasites with example.	02
	7	Define pasteurization.	02
	8	Define halophiles and write two examples.	02
	9	Explain the terms - disinfection and mycology.	02
	10	Which diagnosis methods used for HPV (Human Papillomavirus) infection?	02
	11	What are the different phases of Hepatitis infection?	02
	12	What is Widal test?	02