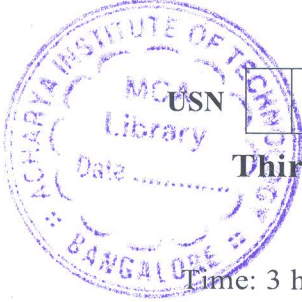


CBCS SCHEME



BBT304

Third Semester B.E./B.Tech. Degree Examination, June/July 2024

Microbiology

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Give an detailed account on notable contributions of any three Researchers in golden age of microbiology.	10	L1	CO1
	b.	Summarize on general characteristics and Reproduction of fungi.	6	L2	CO1
	c.	Describe Prions and their unique characteristics.	4	L1	CO1
OR					
Q.2	a.	Give a detailed account on general characteristics of virus. Add a note on Reproduction cycle in virus.	10	L1	CO1
	b.	Explain in detail Cultural characteristics of Bacteria.	6	L2	CO1
	c.	Write a explanatory note on general features of Mycoplasm.	4	L2	CO1
Module – 2					
Q.3	a.	Describe the principle, construction and application of Phase contrast microscope.	10	L1	CO2
	b.	What is Pure culture? Explain the methods of Isolation of pure culture.	6	L2	CO2
	c.	Write a explanatory note on different type of Culture media.	4	L2	CO2
OR					
Q.4	a.	Define Micrometry. Describe in detail on working principles , calibration and protocol for micrometry.	10	L1	CO2
	b.	Distinguish between TEM and SEM.	6	L2	CO2
	c.	Write a explanatory note on Differential Staining technique.	4	L2	CO2
Module – 3					
Q.5	a.	Infer on Bacterial growth curve that shows a various stages of growth. Add a note on factor affecting the growth.	10	L4	CO3
	b.	Explain Primary and Secondary metaboliter with suitable example.	10	L3	CO3
OR					
Q.6	a.	Define Fermentation. Explain the process of Alcoholic and Lactic acid fermentation.	10	L3	CO3

	b.	Point out on steps involved in EMP pathway.	10	L4	CO3
Module – 4					
Q.7	a.	Explain in detail cause, sign , symptoms , pathogenic of malaria.	10	L3	CO4
	b.	Point out on any two common type of fungal infection.	10	L4	CO4
OR					
Q.8	a.	Explain cause , sign , symptoms diagnosis and treatment of typhoid fever.	10	L3	CO4
	b.	What are Respiratory Viruses? Prioritize on sign , symptoms and treatment of Covid 19.	10	L4	CO4
Module – 5					
Q.9	a.	Illustrate on working of Air sampling technique and its importance.	10	L3	CO3
	b.	Infer on Microbiology of Wastewater treatment.	10	L4	CO3
OR					
Q.10	a.	What are Biofertilizers? Explain the categorize of Biofertilizer based of Microorganisms.	10	L3	CO3
	b.	Point out on : i) Carbon cycle ii) Water sampling technique.	10	L4	CO3
