

Shree H.N.Shukla College of Science Rajkot B.Sc. (Sem. II) (CBCS) [MB-201]: Microbiology **Prelims Paper-2021**



[Total Marks: 70]

Que-2: Give the short answers (any two)	(4 Marks)
1) What are ribozymes?	
2) What are ergosterol, give its importance.	
3) Define Zwitterion and isoelectric pH.	
Que-3: Answer the following (any one)	(3 Marks)
1) Write a note on Disaccharides with examples.	
2) Enlist various types of RNAs with their functions.	
Que-4: Answer the following (any one)	(5 Marks)
1) Write a note on heteropollysaccharides with example	es
2) Write a note on quantitative test for fatty acids.	
Section-III	
Que-1: Answer the following	(2 Marks)
1) Enzymes are basically made up of	
2) What is Km value of enzyme?	
Que-2: Give the short answers (any two)	(4 Marks)
1) What is active site?	
2) Define: allosteric enzymes	
3) What is co enzyme?	
Que-3: Answer the following (any one)	(3 Mark)
1) What is cofactor? Give its examples.	
2) Compititive inhibition	
Que-4: Answer the following (any one)	(5 Mark)
1) Mechanism of Regulation of enzyme Synthesis.	
2) Lock and key model	

Section-IV		
Que-1: Answer the following	(2 Marks)	
1) Pasteurization is used for		
2) Define Bacteriostatic.		
Que-2: Give the short answers (any two)	(4 Marks)	
1) Comment "Moist heat is more efficient than dry heat"	"	
2) What is DRT & TDT?		
3) What is fractional sterilization?		
Que-3: Answer the following (any one)	(3 Marks)	
1) Describe working of an autoclave.		
2) Describe the pattern of death of bacteria.		
Que-4: Answer the following (any one)	(5 Marks)	
1) Justify "Pasteurization is not sterilization"		
2) Enlist practical application and mode of action of follo	owing chemicals.	
a) Alcohols		
b) Quarternary Ammonium Compounds		
c) Heavy metals		
Section-V		
Que-1: Answer the following	(2 Marks)	
1) Panicillin was discovered by the scientist		
2) Give an examples of antifungal agents.		
Que-2: Give the short answers (any two)	(4 Marks)	
1) Differentiate between antibiotic and chemotherapeut	ic agents.	
2) Differntiate betweeen narrow spectrum and broad spectrum antibiotics.		
3) Enlist the mode of action of streptomycin and tetracy	yclines.	

Que-3: Answer the following (any one)

(3 Marks)

Give the characteristics of an Ideal Antimicrobial agent
Sulfonamide drugs

Que-4: Answer the following (any one) (5 Marks)

1) Mode of action of antibiotics affecting cell wall synthesis.

2) Antifungal agents.

ALL THE BEST