Exam. Code: 0003 Sub. Code: 0278

1115

B.A./B.Sc. (General) Third Semester Industrial Microbiology MIC-301: Environmental Microbiology

Time allowed: 3 Hours

Max. Marks: 33

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit

x-x-x

I.	Answer the following:-		
	a) Why it is important to classify micro-organisms?	(2)	
	b) Name any six helminthic diseases.	$(1\frac{1}{2})$	
	a comparing and antihiogram	$(1\frac{1}{2})$	
	d) Name any six drugs which inhibit protein synthesis in bacteria.	(2)	
UNIT-I			
II.	a) Discuss the role of host in infectious disease.	(2)	
11.	b) What is food? Differentiate between food infections and food intoxication	n. $(1\frac{1}{2})$	
	c) Name any six bacterial and six viral diseases.	(3)	
	 a) Define localized infections, generalized infections, acute and chronic infections.(2) 		
III.	a) Define localized infections, generalized infection.b) Explain the four phases seen during a course of infection.	(2)	
	b) Explain the four phases seen during a counterc) How will you measure the frequency of infectious diseases?	(21/2)	
	<u>UNIT-II</u>		
	a) Differentiate between identification and classification.	(2)	
IV.	 a) Differentiate between identification b) What are the main criteria for the classification of micro-organisms? briefly. c) Explain seven divisions of classification of fungi. 	Discuss (2) (2 ¹ / ₂)	
V.	a) Who proposed the five kingdom system of classification? Explain all the in detail.b) Discuss briefly general methods of classifying bacteria.	e kingdoms (5) (1½)	
		P.T.O.	

(2)

<u>UNIT – III</u>

VI.	a) Define virtulent strain, primary infection and subclinical infection.	$(1\frac{1}{2})$
	b) Discuss briefly the classification of exotoxins.	(2)
	c) Explain how pathogenic micro-organisms passively penetrate the human cause infection.	body to (3)
VII.	a) What are endotoxins? Discuss briefly pharmacological effects exhibe endotoxins.	bited by $(3^{1}/_{2})$
	b) Discuss any three enzymes produced by bacteria that contribute virulence	in body. (3)
	<u>UNIT – IV</u>	
VIII.	a) Define antimicrobial drugs. Name any five anti-bacterial agents.	(2)
	b) Write a brief note on E-test.	(2)
	c) Discuss briefly the various factors influencing the effectiveness of antin agents.	(2/2)
IX.	a) Name any five antibiotics that inhibit the cell wall synthesis of bacteria. their mode of action.	Discuss $(3\frac{1}{2})$
	b) Write a note on broth diffusion test.	(3)
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