## Q.P. Code:02352

[ Marks:70]

Please check whether you have got the right question paper. N.B: 1. All questions are compulsory. 2. Draw a neat labelled diagram wherever necessary. Q.1 Answer the following:a) Define angular aperture. 1 1 b) Define sanitizer with example. Explain Decimal Reduction Time. 1 c) Name the fungus used for positive control in sterility testing. 1 d) Give two examples of gram negative bacteria. 1 e) f) Name the causative agent of tetanus. 1 Write the diagnostic test for malaria. 1 g) Write Alexander Fleming's contribution in the field of Microbiology. h) 1 i) 1 Define glycocalyx j) Name two Rickettsial infections with the causative agents. 2 2 k) Explain selective media with suitable example. I) Explain principle of Acid fast staining. 2 Write a note on action and applications of filtration sterilization **Q.2** a) 4 b) Discuss methods of cultivation of viruses Explain cultivations of anaerobic bacteria. 3 **Q.3** a) Explain Dark field Microscopy using neat labelled diagram. Write its applications. Discuss moist heat sterilization with respect to method, mode of action, applications and write the biological 4 indicators used. Distinguish between (any one) 3 i) Bacteria and viruses. ii) SEM & TEM Q.4 a) Describe growth cycle of bacteria 4 b) Write in brief mechanism of action and applications of gaseous sterilizing agents. c) Write note on (any one) 3 i) Infections caused by fungi ii) Life cycle of malarial parasite. Q.5 a) What is pure culture? Explain any two methods of isolation of pure culture. 4 b) How to evaluate the efficiency of a new disinfectant. c) Write a note on (any one) 3 i) oncogenic viruses. ii) Asexual reproduction in fungi.

[Time: Three Hours]

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<b>Q.6</b> a)	Draw neat labelled diagrams of :-		0,000	0,00		100 C		30	4
	i) Ray diagram of Fluorescence Microscopy.	of c						() () () () () () () () () () () () () (	30
	ii) Gram negative cell wall.	33,33		(A) (C)		300	7000		2
b)	Discuss in detail morphological and nutritional char	acters of bacteria.		10,0th		300	300	700	4
c) Explain briefly significance of algae in pharmaceutical field.							300		3
		OR & Co		3,400				50	
	Explain the diseases caused by Salmonella spp.				\$ C C			300	
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