Q.P. Code:02350

[Time: Three Hours] [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 resolving power 1 b) Define tyndallization with its applications 1 c) Explain Thermal death point 1 d) Name the organism used for positive control in sterility testing 1 e) Name two examples of gram positive rods 1 f) Name the causative agent of typhoid 1 g) Name the diagnostic test for malaria 1 2 h) Write Robert Koch's postulates i) Name two chlamydial infections with the causative agent 2 j) Explain any two methods of isolation of pure culture 2 k) Explain principle of differential staining 2 Q. 2 a) Write a note on mechanism of action and applications of gaseous sterilization 4 b) Describe in detail structure of viruses c) How to identify bacteria on the basis of morphological and colony characters. 3 Q. 3 a) Explain working of scanning electron microscopy using a neat labelled diagram. 4 b) Discuss in detail radiation sterilization and write biological indicator used. 4 c) Distinguish between (any one) 3 Gram positive and gram negative bacteria ુંંગે)⊳ે Fungi and protozoa Q. 4 a) Explain sporulation in bacteria 4 b) Write in brief mode of action and applications of halogens as a disinfectant 4 3 c) Write a note on any one Protozoan infections i) ii)~ Rickettsial infections

TURN OVER

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Q. 5 a)	Enlist the methods of enumeration of bacteria and explain any one viable count method in detail.	4
b)	How to evaluate the efficiency of new disinfectant	4
c)	Write a note on any one	3
	i) Oncogenic viruses	3
	ii) Sexual reproduction in fungi	
Q. 6 a)	Draw a neat labelled diagram of bacterial growth cycle and bacterial flagella.	4
	Explain selective media and differential media with suitable examples	4
c)	Discuss in brief significance of algae in pharmaceutical field.	3
	Explain bacterial diseases caused by Staphylococcus aureus	
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