Paper / Subject Code: 69105 / Microbiology

[Time: Three Hours]

Q.P. Code: 36175

[Marks:80]

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. Q1 Answer the following: a) i) Define Resolving power. 01 ii) Classify bacteria on the basis of pH requirement. 01 iii) Name the causative agent of tetanus. 01 iv) Give the examples of flagellated Bacteria 01 02 b) i) Draw a neat labelled diagram of Bacterial Endospore. ii) Contribution of Louis Pasteur in Microbiology. 02 iii) Explain with suitable example - Differential medium. 02 02 iv) Write the causative agent and diagnostic test for Typhoid. v) Name the Rickettsial infections with the causative agent. 02 vi) Define Tumor Viruses with examples. 02 vii) Explain tissue toxicity index. 02 viii) Explain the steps involved in Microbial limit test of Salmonella. 02 Q.2 a) Describe in detail with ray diagram - dark field microscopy. 04 b) Discuss in detail dry heat sterilization with respect to method mode of action and applications. 04 c) Write in detail sterilization by Radiation. 04 Q.3 a) Explain in detail methods of preservation of bacteria. 04 b) Explain in brief growth phases of Bacteria. 04 c) Lytic cycle in T4 bacteriaphage. 04 OR c) Lysogeny in λ bacteriophage 04 Q.4 a) Write a note on Reproduction in fungi. 04 b) Explain in detail methods of cultivation of Anaerobic bacteria. 04 c) Biological and Economic importance of algae 04 OR c) Protozoan infections. 04 Q.5 a) Write a note on Mode of action and practical applications of halogens as disinfectant 04 b) Describe Phenol coefficient test 04 c) Write ideal characteristics of disinfectants 04 OR c) Write ideal characteristics of disinfectants. 04

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Q.6 a)	Explain in detail different methods for Isolation of pure culture	e of bacteria.	14
b)	Explain the steps involved in sterility testing of Parentral prepared	arations O O O O O O O O O O O O O O O O O O O	14
c)	What are different Precautions taken to prevent contamination	ons in Laminar flow unit	14
	OR		- -
c)	Layout of Aseptic Area		14
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