2016-2017

SEMIV Re-Exam

Microbiology.

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Q.P. Code: 527802 Se cond Hoth

[Total Marks: 70 (3 Hours) N.B.: (1) All questions are compulsory. (2) Draw neat labelled diagrams wherever necessary. Answer the following :-2 (a) Name aerobic & anaerobic media used for sterility tests. (b) What is the scope of Microbiology in Pharmaceutical industry? Give contributions of Alexander Fleming. (c) Enlist the chemical indicators used in dry heat and moist heat sterilization methods. 2 (d) Name two RNA viruses. (e) Name two infections caused by Mycobacterium species. 2 2 (f) Write the causative agent and diagnostic test for typhoid. 1 (g) Define Glycocalyx. 1 (h) Explain Resolution limit. 1 (i) Define disinfectant. Give one example. 2. (a) Differentiate between light microscopy & Electron microscopy. (b) Write a note on bacterial spore. 3 (c) Explain the principle and method of Gram staining. 3. (a) Describe methods of anaerobic cultivation of bacteria. (b) Describe differential and selective culture media with suitable examples. Describe chick embryo cultivation of viruses with a neat labelled diagram. 3 (c) Explain basic morphological features of fungi. Describe asexual reproduction in 4. (a) fungi. (b) Describe any one. (i) Rickettsial infections (ii) Chlamydial infections (c) Write a note on Turbidometric method of counting bacteria. 3 5. (a) Discuss radiation sterilization with respect to method, mode of action and applications. (b) Explain the effect of temperature, pH and osmotic pressure on growth of the 3 (c) Describe economic importance of algae. 6. (a) Write a note on mode of action and applications of phenols & phenolic derivatives as disinfectant. Differntiate between bacteria and viruses.

Explain lysogenic cycle of viruses. (c) Describe the life cycle of malarial parasite.