ou/16 B. Pharm Som-IV CBSGS/Microbiology.

(3 Hours)

Q.P. Code: 420208

[Total Marks: 70

N.B.: (1) All questions are compulsory. (2) Draw neat labelled diagrams wherever necessary. 1. Answer the following: Name any two methods used in neutralisation of antimicrobial agents in sterility testing. What is the scope of microbiology in pharmaceutical industry and (b) give the contribution of Joseph Lister. Enlist chemical indicators used in dry heat and moist heat steriffsation (c) 2 methods. (d) Name 2 Chlamydial infections with the causative agents. 2 Name 2 infections caused by Escherichia coli. (e) 2 Write the causative agent and diagnostic test for eprosy. (f) Define bacterial flagella (g) (h) Explain angular aperture Define sterilization (i) 2. (a) Discuss fluorescent microscopy with its applications. 4 (b) Write a note on gram negative cell walk (c) Explain the principle and method of any one special staining. 3 3. (a) Explain different methods of preservation of bacteria. (b) Describe lysogenic cycle of bacteriophage with suitable diagram. (c) Explain selective media with suitable examples. 4. (a) Explain basic morphological details and sexual reproduction in fungi. 4 (b) Write a note of Rickettsial infections. 4 (c) Explain any one direct method of counting bacteria. 3

Q.P. Code: 476608

5. (a) Discuss filtration sterilization with respect to method mode of action and practical applications. OR (a) Discuss radiation sterilization with respect to method mode of action and practical applications. (b) Differentiatic between bacteria and viruses. (c) Explain in brief biological and economical importance of algae. 6. (a) Write a note on mode of action and applications of 4 quaternary ammonium compounds (i) (ii) heavy metals and their salts. (b) Write in detail the morphological characteristics for identification and classification of bacteria. (c) Describe the life cycle of malarial parasite. 3

OLILES OF PHARMA