BACHELOR OF SCIENCE (CBCS-2018 COURSE)

F. Y. B. Sc. Sem-II : WINTER- 2022 SUBJECT : MICROBIOLOGY : THE DIVERSITY OF MICROBIAL WORLD

Time: 02:00 PM-05:00 PM Day: Friday Max. Marks: 60 W-18332-2022 Date: 9/12/2022 N.B. All questions are **COMPULSORY**. 1) Figures to the **RIGHT** indicate **FULL** marks. 2) Draw neat and labeled diagram wherever necessary. 3) 0.1 Attempt **ANY TWO** of the following: (12)What is commensalism? Discuss with an example. Explain the functioning of Oxidation lagoons. b) Discuss Alkalophiles with examples. c) Attempt ANY TWO of the following: **Q.2** (12)Discuss the various modes of transmission of waterborne diseases. b) How bacteria are grouped based on the requirement of salt concentration? What is the significance of bioluminescent bacteria in the aquatic c) ecosystem? Q.3 Attempt **ANY TWO** of the following: (12)Comment on - Microorganisms as fertilizers. What are the properties and applications of barophiles? b) c) How are aquatic microbes involved in controlling oil spills? **Q.4** Attempt ANY THREE of the following: (12)Comment on – Microbes as Superbugs b) Discuss the soil microflora. How does Laminar air flow help in maintaining sterile conditions? c) d) What are the various ways of treating sewage? 0.5 Write short notes on **ANY FOUR** of the following: (12)Acidophiles a) Bacillus thuringiensis b) U-V radiations c) **ESKAPE** Theory d) Air Microflora e)
