

F.Y.B.SC. SEM – II (2014 COURSE) : WINTER - 2017

SUBJECT: MICROBIOLOGY: THE DIVERSITY OF MICROBIAL WORLD (MB – 22)

Day : Monday
Date : 30/10/2017

Time : 03.00 PM TO 05.00 PM
Max. Marks : 40

W-2017-0603

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Attempt **ANY TWO** of the following: [10]

- a) Explain the role of *Bacillus thuringiensis* in plant protection.
- b) Giving suitable examples, explain water borne transmission of diseases.
- c) What is superbug? Enlist superbug for ESKAPE therapy.

Q.2 Answer **ANY TWO** of the following: [10]

- a) Define 'Thermophiles'. Giving appropriate examples explain the classes of 'Thermophiles'.
- b) Explain the use of *Mycorrhiza*.
- c) Explain the significance of microorganisms in air.

Q.3 Write short notes on **ANY TWO** of the following: [10]

- a) Commensalism
- b) Microorganisms in sewage
- c) Microorganisms and intellectual property right

Q.4 Attempt **ANY FIVE** of the following: [10]

- a) Name the inhibitory compounds produced by *Pseudomonas fluorescens* during plant protection.
- b) Define the term bioluminescence.
- c) Give any two examples of 'Antagonism'.
- d) Enlist organisms used for control of 'oil spill'.
- e) Give any two examples of 'Halophiles'.
- f) What is NCBI?
- g) Give any two examples of microorganisms used for deliberate spread of diseases.

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