

**F.Y.B.SC. SEM – II (2014 COURSE) : SUMMER - 2018**  
**SUBJECT: MICROBIOLOGY: THE DIVERSITY OF MICROBIAL WORLD (MB – 22)**

Day : **Wednesday**  
Date : **18/04/2018**

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

**S-2018-0695**

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.

**Q.1** Attempt **ANY TWO** of the following: **[10]**

- a) Explain the role of *Pseudomonas fluorescens* in plant protection.
- b) What is bioluminescence? Give its significance in marine ecosystem.
- c) Define the term 'Bioterrorism' and discuss the candidate microorganisms for bioterrorism.

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

- a) What are 'Acidophiles'? Give their significance.
- b) Define the term 'Biofertilizer' and enlist common biofertilizers.
- c) What is HEPA filter? Explain its use.

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

- a) Thermophiles
- b) ESKAPE therapy
- c) Oxidation lagoons

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

- a) What is intellectual property right?
- b) What are 'Barophiles'? Give any two examples of 'Barophiles'.
- c) Enlist databases for comparative genomics.
- d) Give any four examples of airborne pathogens.
- e) Mention the action of ultraviolet radiations.
- f) Give any two uses of 'Alkalophiles'.
- g) Mention representative examples of 'Mutualism'.

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