

T.Y.B.SC. SEM – VI (2014 COURSE) : SUMMER - 2018
SUBJECT: MICROBIOLOGY: AGRICULTURAL AND ENVIRONMENTAL
MICROBIOLOGY

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

S-2018-0778

Time : **12.00 NOON TO 02.00 PM**
Max. Marks: 40.

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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Q.1 Attempt any **TWO** of the following: **(10)**

- a) Explain microbial approach in remediation of contaminated soil.
- b) Describe the concept and basis of biomonitoring.
- c) Discuss nitrogen fixation step in the transformation of nitrogen in nature.

Q.2 Attempt any **TWO** of the following: **(10)**

- a) Give the examples and applications of fungal biocontrol agents.
- b) Describe KVIC model.
- c) What are the effects of radioactive pollutants on biosphere?

Q.3 Write short notes on any **TWO** of the following: **(10)**

- a) Types of marine pollution
- b) Tobacco mosaic disease
- c) Composting

Q.4 Attempt any **FIVE** of the following: **(10)**

- a) Soil pollution
- b) Salinity of soil
- c) Advantages of biogas
- d) Petroleum and oil pollutants
- e) Bacterial biopesticides
- f) Point sources of marine pollution
- g) Biostimulation

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