

F.Y.B.SC. SEM – I (2014 Course) : WINTER - 2018

SUBJECT : MICROBIOLOGY : INTRODUCTION TO MICROBIOLOGY (MB – 11)

Day : Friday

Time : 12.00 NOON TO 02.00 PM

Date : 12/10/2018

W-2018-0772

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) Describe contributions of Louis Pasteur to Microbiology.
- b) Discuss Redi's experiment to disprove theory of spontaneous generation.
- c) Enlist functions of proteins.

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

- a) Enlist any five parts of the compound light microscope and give their functions.
- b) What is differential staining? Explain - Gram staining.
- c) Give the functions of ATP in a cell.

Q.3 Attempt **ANY TWO** of the following: **[10]**

- a) Explain in detail-Chemotherapy.
- b) What are synthesis reactions? Explain any one.
- c) Give principle and applications of fluorescence microscope.

Q.4 Explain in short **ANY FIVE** of the following: **[10]**

- a) Hydrogen bonds
- b) pH
- c) RNA
- d) Resolving power
- e) Fixative
- f) Biofertilizer
- g) Vaccine

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