

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

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

Day: Friday

W-2017-0586

Time: 12.00 NOON TO 02.00 PM

Date: 27/10/2017

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) Give the important events in the golden age of microbiology.
- b) What are reversible reactions? Explain with any one example.
- c) Give the principle and applications of Dark field microscope.

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

- a) Enlist important contributions of Louis Pasteur.
- b) Explain the double helical structure of DNA with the help of a suitable diagram.
- c) How are lipid granules stained? Draw a suitable diagram.

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

- a) Give the role of microorganisms in insect pest control.
- b) Why is water called as universal solvent? Explain its important features.
- c) Explain smear preparation in negative staining and the procedure of negative staining.

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

- a) Structure of purine.
- b) Buffer.
- c) Contribution of Edward Jenner.
- d) Aerobiology.
- e) Magnification.
- f) Accentuator.
- g) Normal microbiota.

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