

**F.Y.B.SC. SEM – I (2014 COURSE) : SUMMER - 2018**  
**SUBJECT: MICROBIOLOGY: INTRODUCTION TO MICROBIOLOGY**  
**(MB-11)**

**Day: Monday**  
**Date: 16/04/2018**

**S-2018-0678**

**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.

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

- a) Discuss different experiments conducted by various scientists to disprove spontaneous generation.
- b) Explain decomposition reactions with suitable examples.
- c) Give functions of different parts of compound light microscope.

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

- a) Name any five scientists with their important contributions in the field of Microbiology.
- b) Discuss various types of carbohydrates
- c) Explain any one method of capsule staining. Draw a suitable diagram.

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

- a) Explain the role of microorganisms in the treatment of sewage.
- b) Discuss various types of bonds with suitable examples.
- c) Explain steps in smear preparation and monochrome staining.

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

- a) ATP
- b) pH
- c) Contribution of Joseph Lister
- d) Bio control agent
- e) Resolving power
- f) Mordant
- g) Swan neck flask.

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