

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

SUBJECT: Microbiology: Microbial Nutrition, Growth & Control

Day : Friday
Date : 27/10/2017

Time: 03.00 PM TO 05.00 PM
Max Marks: 40

W-2017-0601

N.B

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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- Q.1** Attempt any **TWO** of the following: (10)
- a) Name the macronutrients and give their role in microbial nutrition.
 - b) Describe enrichment media
 - c) What are Psychrophiles?
- Q.2** Attempt any **TWO** of the following: (10)
- a) Give the use of microbial filters in sterilization of liquids.
 - b) What are synthetic media? Explain with examples.
 - c) What is freeze drying? Give its use in culture preservation
- Q.3** Attempt any **TWO** of the following: (10)
- a) Differentiate between sterilization and disinfection using suitable examples
 - b) How are microbes grouped based on their nutritional requirements?
 - c) What are the features of halophilic organisms?
- Q.4** Write in short on/define/Explain any **FIVE** of the following: (10)
- a) Selective Media
 - b) Lag phase
 - c) Phenol coefficient
 - d) Facultative anaerobe
 - e) Antiseptic
 - f) C.F.U
 - g) Aldehydes in control of microbial growth

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