

S.Y.B.SC. SEM – IV (2014 COURSE) : WINTER - 2017

SUBJECT: MICROBIOLOGY: APPLIED MICROBIOLOGY (MB-42)

Day: Saturday
Date: 28/10/2017

Time: 03.00 PM TO 05.00 PM
Max. Marks: 40

W-2017-0631

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) Define BOD. Explain the method for estimation of BOD.
- b) With the help of a flow sheet explain penicillin fermentation.
- c) Give different steps in secondary screening process.

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

- a) Explain confirmed test and completed test for checking potability of water.
- b) Differentiate between oxidation ponds and activated sludge process.
- c) Draw a neat labelled diagram of a trickling filter.

Q.3 Attempt **ANY TWO** of the following: **(10)**

- a) Explain Indole production test used in differentiation of coliform bacteria.
- b) Differentiate between batch and continuous fermentation.
- c) Explain different steps in inoculum preparation.

Q.4 Write in short on/ Explain/Define/Enlist **ANY FIVE** of the following: **(10)**

- a) Water borne viral diseases
- b) Antifoam agents
- c) COD
- d) Chlorination of water
- e) Cane molasses
- f) P-A Test
- g) Sludge digestion

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