

Total No. of Questions : 4]

SEAT No. :

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[Total No. of Pages : 2

S.Y. B.Sc. (Vocational)

INDUSTRIAL MICROBIOLOGY

**VOC - IND - MIC - 211 : Bioreactors - Designs and Operation
(2013 Pattern) (Theory) (Semester-I) (Paper-I)**

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) All questions carry equal marks.*
- 4) Draw neat labelled diagrams wherever necessary.*
- 5) Use of scientific calculators is allowed.*

Q1) Answer each sub-question in one or two lines; Fill in the blanks; State whether the statement is true or false. **[10]**

- a) Define-off-line sensors.
- b) State whether the following statements are TRUE or FALSE
The minimum amount of chromium is needed to resist corrosion will depend on the corresponding agent in a particular environment.
- c) Foam is formed when high carbohydrate containing media are used during fermentation.
- d) Define - Del factor
- e) State any two disadvantages of continuous sterilization over batch sterilization.
- f) The largest practical diameter of the glass fermenter is _____ cm.
- g) Name any two methods used for measurement of microbial biomass in fermenter.
- h) Name any two types of spargers.
- i) Name any two chemical substances which are used as antifoam agents in fermentation.
- j) Define - continuous culture.

P.T.O.

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