

Vitthalbhai Patel & Rajratna P.T.Patel Science College, V.V.Nagar

Internal Test: October-2017(Semester V)

Date: 09-10-2017

Sub: Microbiology (USO5C MIC-06)

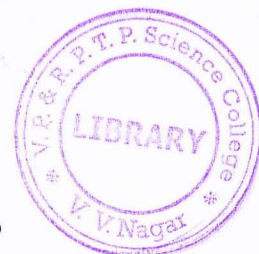
Total Marks: -25

Time: 11:00a.m.-12:30p.m.

Q-1 Attempt the following multiple choice questions.

(03)

- (1) Organic acid producing organisms can be detected by
 - (a) Incorporation of pH indicator dye. (b) Incorporation of CaCO_3
 - (c) Both a & b (d) none of them.
- (2) In fermentation process, closed system is associated with:
 - (a) Batch fermentation (b) Continuous fermentation
 - (c) Fed batch fermentation (d) all of them.
- (3) Which organism is used to check the efficiency of sterilization process ?
 - (a) *Bacillus thuringiensis* (b) *Bacillus stercorarius*
 - (c) *Bacillus subtilis* (d) *Bacillus megaterium*.



Q-2 Attempt the following (any two)

(04)

- 1) Describe the characteristics of industrially important micro organisms.
- 2) Write a note on Fed batch fermentation.
- 3) Write in brief on Sampling.

Q-3 Define Screening. Describe the process of Auxanography.

(06)

OR

Q-3 Describe the significance of secondary screening. (Any six points)

(06)

Q-4 Write the advantages and disadvantages of SSF.

(06)

OR

Q-4 Describe monitoring and control of temperature and foam during fermentation.

(06)

Q-5 Write a note on Scale down process.

(06)

OR

Q-5 Describe continuous sterilization of fermentation medium.

(06)

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