

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

Internal Test: 2019(Semester V)

Date: 10-10-2019

Sub: Microbiology (US05CMIC06)

Total Marks: - 25

Time: 11-00 a.m. to 12-15 p.m.

Q-1 Attempt all following multiple choice questions.

(05)

(1) Following can be used to detect organic acid producers.

- (a)  $\text{CaCl}_2$  (b)  $\text{CaSO}_4$   
(c)  $\text{CaCO}_3$  (d)  $\text{CuSO}_4$ .

(2) Protoplast can be stabilized against lysis by addition of:

- (a) Glucose (b) Lactose (c) Fructose (d) Sucrose.

(3) Following can be used as a substrate for nitrogen source:

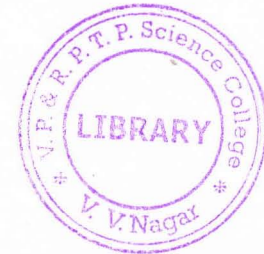
- (a) Molasses (b) Urea (c) Starch (d) all of them.

(4) Which framework is used for very accurate measurement of temperature?

- (a) Mica (b) Ceramic (c) Galvanic (d) None of them.

(5) Antibiotics and vitamins are sterilized by:

- (a) Radiation (b) Filtration (c) Chemical methods (d) All of them.



Q-2 Write a note on significance of secondary screening.

(05)

OR

Q-2 Enlist the range of fermentation process and describe microbial metabolites in detail

(05)

Q-3 Write a note on protoplast fusion.

(05)

OR

Q-3 Describe the role of precursors and inducers in fermentation process.

(05)

Q-4 Write a note on continuous fermentation.

(05)

OR

Q-4 Describe advantages and disadvantages of solid state fermentation.

(05)

Q-5 Write a note on scale down process.

(05)

OR

Q-5 What is  $K_{La}$ ? Describe various factors affecting it.

(05)