

P.S.SCIENCE & H.D.PATEL ARTS COLLEGE, KADI
INTERNAL EXAMINATION

10/09/2017

B.Sc. Sem - V
Biotechnology 501

[Marks 40]
[1.45 to 3.45]

Que-1: Each Question having a 1 mark.

(10)

1. Define Fermentation
2. Liquid Nitrogen having a _____ temperature.
A) -10°C B) -20°C C) -100°C D) -196°C
3. Which phase of Microbial growth having a steady state?
4. Which method of Preservation is more reliable?
A) Silica B) Slants C) Lyophilization D) All of above
5. Factor VIII is used in treatment for Haemophilia. True/False
6. Write down work of Sparger.
7. Define Restriction Endonuclease.
8. In $dx/dt = \mu x$ what μ indicates?
A) Specific Gravity B) Specific Growth Rate
9. Give an example of Facultative Aerobe.
10. Define Chemostat.

Que-2: Write down any four and each having 5 marks

(20)

1. Elaborate Microbial growth curve.
2. Write down Preservation techniques in brief.
3. Describe Batch Culture with Kinetics.

4. Draw a Schematic Diagram of Fermenter and Give introduction of its parts in brief.
5. Write down Types of Fermenter.
6. What are criteria for Microbes that have to be Inoculate?

Que-3: Write down any one and each having 10 marks (10)

1. Write down Applications for r-DNA recombinant technology.
2. Methods for the Isolation of Mutants that do not recognize the presence of inhibitors and repressors.