

V.P & R.P.T.P SCIENCE COLLEGE

Vallabh Vidyanagar

Internal Test : 2016

Date: 03-10-16

B.Sc Vth Semester

Total Marks - 25

Time : 11-00 to 12-30 p.m Microbiology - US05CMIC03

Q.1 Multiple choice questions.

(03)

- 1) The rate of passive diffusion is determined by :
 - a) concentration gradient
 - b) Specific protein molecule
 - c) cellular energy
 - d) electrochemical gradient
- 2) Which of the following is antiviral drug used against AIDS?
 - a) Acyclovir
 - b) AZT
 - c) Amantadine
 - d) None of the above
- 3) An inactive precursor of the enzyme is known as :
 - a) Zymogen
 - b) Co-enzyme
 - c) Isozyme
 - d) Apoenzyme



Q.2 Short Answer questions. (Attempt any two)

(04)

- 1) Explain the fluid mosaic model of Singer & Nicolson.
- 2) What is semi-synthetic penicillin? Give its example.
- 3) What is active site ? List the salient features of active site.

Q.3 What is passive transport ? Discuss passive diffusion process of solute transport across the membrane.

(06)

OR

Q.3 What is Siderophore ? Discuss the roles of siderophore in detail.(06)

Q.4 Explain the mode of action of :

(06)

- (i) Sulfonamides (ii) Penicillin (iii) Streptomycin

OR

Q.4 What is Endospore ? Discuss the process of Sporulation in detail.

Q.5 Discuss various factors affecting Enzyme activity.

(06)

OR

Q.5 Discuss IUB system of Enzyme classification.

(06)

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