

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

Vallabh Vidyanagar

Internal Test : 2017

B.Sc Vth Semester

Total Marks - 25

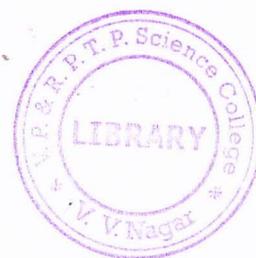
Date: 05-10-17

Time : 11 to 12-30 a.m Microbiology - US05CMIC03

Q.1 Multiple choice questions.

(03)

- 1) The term Siderophore was first proposed by :
 - a) J.B.Neilands
 - b) Lankford
 - c) Arnow
 - d) Gibson & Magrath
- 2) An inactive precursor of the enzyme is known as :
 - a) Zymogen
 - b) Co-enzyme
 - c) Isozyme
 - d) Apoenzyme
- 3) Name the type of reaction in which NAD is used as co-enzyme.
 - a) Carboxylation
 - b) Phosphorylation
 - c) Alkylation
 - d) Oxidation – Reduction



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

(04)

- 1) Explain the fluid mosaic model of Singer & Nicolson.
- 2) Draw a plot $[V_o]$ vs $[S_o]$ for enzyme catalyzed reaction & label all axis clearly.
- 3) Explain the significance of double reciprocal plot.

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

(06)

OR

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

Q.4 Discuss various factors affecting Enzyme activity.

(06)

OR

Q.4 Discuss the following.

(06)

- (a) Active site of an Enzyme.
- (b) Isoenzymes

Q.5 Explain the mechanism & Kinetics of reversible type of enzyme inhibition .

(06)

OR

Q.5 Write on : Allosteric enzyme.

(06)

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