

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

Internal Examination

B. Sc. Semester - III

[Mark : 40

22-9-2016]

Biotechnology : CC-BT-301

[2 Hours

Cellular Metabolism-I

Q.1. Answer all questions. Each question carries 1 mark. 10

- (1) Entropy is
 - (A) state of disorder
 - (B) degree of randomness
 - (C) useless energy
 - (D) All
- (2) Free energy is gained
 - (A) exergonic
 - (B) endogonic
 - (C) A + B
 - (D) none of them
- (3) Non protein part of enzyme
 - (A) Apoenzyme
 - (B) Holoenzyme
 - (C) Prosthetic grp
 - (D) isoenzyme
- (4) The enzyme term was coined by
- (5) The father of modern enzymology
- (6) define isoenzyme
- (7) define active site of enzyme
- (8) expand ATP
- (9) First law of thermodynamic
- (10) _____ and _____ are classes of enzyme.

Q.2. Answer any four questions. 20

- (1) Explain term enzyme and classes of it
- (2) Describe reduction and oxidation reaction.
- (3) Draw a structure ATP and explain.
- (4) Explain lock-key theory.
- (5) Explain MM equation.
- (6) Describe relationship between free energy and equilibrium constant.

Q.3. Answer any one question. 10

- (1) Define enzyme inhibition and explain types.
- (2) Describe factors affecting enzyme.