



J-014-1042005

Seat No. _____

M. P. M. (Sem. II) (CBCS) Examination

June / July – 2019

Biochemistry

Faculty Code : 014

Subject Code : 1042005

Time : 3 Hours]

[Total Marks : 75

- Instructions :** (1) Figure to the right indicates marks.
(2) Draw neat and clean diagrams as required.

1 Answer the following questions : 20

- (a) Define: Entropy and Enthalpy
- (b) Classify high energy compound with example
- (c) Define Epimers with example
- (d) Define: Catabolism and Anabolism
- (e) What is Composition of Molisch reagent?
- (f) Give the examples of saturated and unsaturated fatty acids
- (g) Explain: FAS complex
- (h) Enlist properties of carbohydrates
- (i) Calculate energetic of Glycolysis
- (j) Give example of sulfur containing amino acids.

2 Answer any two out of the following : 2×10=20

- (1) Discuss TCA Cycle.
- (2) Explain Urea cycle in detail.
- (3) Write classification of enzyme in detail.

3 Answer any **Seven** out of the following :

7×5=35

- (1) Explain: Von Gierke's disease
- (2) Calculate energetic of TCA cycle.
- (3) Discuss: Ketogenesis
- (4) Explain a - Helix structure of protein
- (5) Inhibitors of Electron transport chain
- (6) Write function of DNA and RNA
- (7) Classify carbohydrates with examples
- (8) Explain: Rreversible enzyme inhibition
- (9) Discuss deamination and transamination.
