

[KP 504] **Sub. Code : 4055**

FIRST M.B.B.S. DEGREE EXAMINATION.

Revised (Non-Semester) Regulations

Paper V — BIOCHEMISTRY – I

Time : Three hours Maximum : 100 marks

Theory : Two hours and forty minutes Theory : 80 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

1. Write detail about β -oxidation of fatty acid under the following heading :

(a) Definition (b) Site

(c) Steps and (d) Energetics.

(2 + 1 + 12 + 5 = 20)

2. Discuss citric acid cycle under following heading :

(a) Location

(b) Reaction and

(c) Energetics. (1 + 10 + 4 = 15)

3. Write an essay on chemistry, functions, deficiency manifestations and hypervitaminosis state of Vitamin A. (2 + 6 + 5 + 2 = 15)

II. Write short notes on : (6 × 5 = 30)

(a) Define and classify polysaccharides with examples.

(b) Define and classify enzymes with examples.

(c) Protein energy malnutrition.

(d) Acute intermittent porphyria.

(e) Role of cytochromes in electron transport chain.

(f) Comparison between prokaryotic and eukaryotic cells.