

FEBRUARY 2008

[KS 504]

Sub. Code : 4055

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

Revised (Non-Semester) Regulations

Paper V — BIOCHEMISTRY — I

Q.P.Code : 524055

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 diagrams wherever necessary.

Essay questions :

1. Describe the site, process of  $\beta$  oxidation of fatty acid and add a note on role of CARNITIN. Write the energetics when palmitic acid is oxidised. (15)

2. Describe the synthesis of HEME. What is PORPHYRIA? Classify the different types of porphyrias. Give the enzyme defect and biochemical findings. (15)

3. Write Short notes on : (10 × 5 = 50)

- (a) Biotin
- (b) Enzymes in myocardial infarction
- (c) Protein energy malnutrition diseases
- (d) Oxidative phosphorylation
- (e) Structure of cell membrane
- (f) How glucose is absorbed from small intestine?
- (g) Catabolism of cholesterol
- (h) Wald's visual cycle
- (i) Glycogen storage diseases
- (j) Fibre diet.