

[KD 504]

Sub. Code : 4004

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

(Non-Semester)

(Revised Regulations)

Paper V — BIOCHEMISTRY — I

Time : Three hours

Maximum : 50 marks

Two and a half hours

Theory : 35 marks

for Theory

M.C.Q. : 15 marks

M.C.Q. : 30 minutes

Answer ALL questions.

Draw suitable diagrams wherever necessary.

M.C.Q. must be answered separately on the answer sheet provided.

1. Describe the chemistry, sources, daily requirements and biochemical role of cholecalciferol. (10)
2. Write short notes on : $(2\frac{1}{2} \times 10 = 25)$
 - (a) Absorption of lipids
 - (b) Lineweaver-Burk plot
 - (c) Name the four protolipid complexes of respiratory chain, with their components
 - (d) Name three function tests that suffice in the differential diagnosis of jaundice. Explain giving normal values
 - (e) Interpretation of metabolism via TCA cycle

(f) Define ketosis. Name two conditions where it occurs.

(g) Calculate your daily calorie requirement.

(h) Structure of cell membrane.

(i) Heme catabolism.

(j) Disorders (name) of malnutrition.