

[KG 505 A]

Sub. Code : 4056

4. Write short notes on : (4 × 5 = 20)

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

(Non-Semester)

(Revised Regulations)

Paper VI — BIOCHEMISTRY — II

Time : Three hours

Maximum : 100 marks

Theory : Two and a half hours

Theory : 70 marks

M.C.Q. : Half an hour

M.C.Q. : 30 marks

MCQ must be answered separately on the answer sheet provided as per instructions on the first page.

1. Define the terms "Replication, transcription and translation". Describe the steps involved in protein biosynthesis. (15)

2. Write short notes on : (4 × 5 = 20)

- (a) Maple syrup urine disease
- (b) PRPP biosynthesis and its importance
- (c) Chromatography
- (d) Genetic code.

3. Write in detail diagrammatically the reaction mechanisms by which  $\text{HCO}_3^-$  is reclaimed and regenerated in kidneys. What is meant by metabolic acidosis and how it is compensated? (15)

- (a) Wilson's disease
- (b) Structure and functions of Insulin.
- (c) Carcinogen
- (d) Describe the "Southern Blot" technique.  
Enumerate two applications of the technique.