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[KJ 504]

Sub. Code: 4055

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

(Non-Semester)

(Revised Regulations)

Paper V - BIOCHEMISTRY - I

Time: Three hours

Maximum: 100 marks

Theory: Two hours and

Theory: 80 marks

forty minutes

M.C.Q.: Twenty minutes

M.C.Q.: 20 marks

Draw labelled diagrams wherever necessary.

Answer ALL questions.

I. Essay:

 $(2 \times 15 = 30)$

- (1) Write about the sources, activation, biochemical functions, deficiency disease and its detection of Thiamine.
- (2) Write in detail about Glucose homeostasis in the human organism and add a note on its biomedical importance.

II. Write short notes on :

 $(10 \times 5 = 50)$

- (a) Biochemical functions of Vitamin D.
- (b) Absorption of lipids.
- (c) Excretion of Bilirubin and clinical importance of Bilirubin estimations.
- (d) Coupling of oxidative phosphorylation, uncouplers and their importance.
- (e) Clinical importance of Isoenzymes with suitable examples.
- (f) Biochemical changes in Vongierke's disease and their relation to enzyme deficiency.
- (g) Role of LDL receptors in metabolism of low density lipoproteins and the disease caused by its defect.
- (h) Definition, expression and significance of $K_{\mathfrak{m}}$ value.
- (i) Role of liver in integration of metabolism during post prondial state.
- (j) Caloric requirement and it's recommended distribution among nutrients in an adult male.

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