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[KP 505]

Sub. Code: 4056

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

Revised (Non-Semester) Regulations

Paper VI - BIOCHEMISTRY - II

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.

L Essay:

 Describe the sources, requirement, absorption, transport, storage forms, functions, deficiency and toxic manifestations of iron.

(1+1+3+2+2+4+5+2=20)

- (2) Discuss urea cycle under the following headings:
 - (a) Site
 - (b) Sources of amino group
 - (c) Steps and
 - (d) Regulation.

(1+1+10+3=15)

- (3) Discuss about nucleic acids under following headings:
 - (a) Types
 - (b) Functions
 - (c) Components
 - (d) Char gaff's rule of DNA composition
 - e) Different forms of DNA double helix

and

(f) Differences between DNA and RNA. (1+3+2+2+3+4=15)

II. Write short notes on :

 $(6 \times 5 = 30)$

- (a) Post translational modifications with two examples.
 - (b) Alpha helical structure of a peptide.
 - (c) Buffer system in the body.
- (d) Principles of electrophoresis and its clinical applications.
 - (e) Applications of genetic engineering.
 - (f) G-proteins.

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