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Date: 12-10-2018

MGR 5505

First Year MBBS Examination

I MBBS Biochemistry Paper 1

Time: 3 hours Max Marks: 50
Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Write short notes on: (any two) (10)

a. Thalassemia (A. 347) (C. 206): Molecular basis, Types and symptoms
b. Enzymes Inhibition (A. 63) (C.92): Competitive, Noncompetitive
c. Acidosis and Alkalosis: Causative factors, Compensatory Mechanism

2. Write Short notes on (any three) (9)

a. Significance of Conjugated and Unconjugated Bilirubin
b. Importance of Polyunsaturated Fatty acids
c. Isoenzymes (A. 79) (C.112)
d. Diagnostic and Therapeutic uses of

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Polysaccharides

e. Substrate specificity of enzymes

3. Write Short notes on (any two) (6)

a. Blood buffers and their role (A. 398) (C. 475)
b. Spectrophotometer and its significance
c. Role of Lysosomes (A. 12) (C.7) and Peroxisomes

Section 2

4. Write Short notes on (any two) (10)

a. HMP shunt and G6PD deficiency (A. 144) (C. 270)
b. Beta oxidation of fatty acids (C16) with its energetics (A. 194) (C.287)
c. Lipid profile and its significance

5. Write Short notes on (any three) out of five) (9)

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a. Oxidative phosphorylation (A. 318) (C.228)
b. Air pollution and its effects (A. 534) (C.663)
c. Oncogenes (A. 664) (C.687)
d. Primary antibody-structure and functions
e. Carcino-emryonic antigen (CE (A. 667) (C.691)

6. Write Justification of following statements:

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(any six) (6)

a. Being product of the same gene Apo B 48 and Apo B-100 are different in composition and functions
b. Insulin is anabolic hormone
c. CPK has only 3 isoforms
d. cAMP is called as second messenger
e. Glycosylated hemoglobin test has a prognostic importance in diabetic patients
f. Thermogenin produces heat-state its mechanism
g. Liver cannot use ketone bodies

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