Date: 06-10-2017

KK 2805

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. Give an account of: (any two) (10)
   a. Enzyme inhibition (A. 63) (C.92)
   b. Mention various types of abnormal Hemoglobin and discuss sickle cell anaemia
   c. Blood PH and its regulation (A. 301)
2. Write Short notes on (any three) (9)
   a. Jaundice (A. 332) (C. 216)
   b. Eicosanoids

c. Isoenzymes (A. 79) (C.112)

d. Glycosaminoglycans (A. 98) (C.22)

e. Active site

3. Write Short notes on (any two) (6)
   a. Metabolic Alkalosis (A. 402) (C.481 & 482)
   b. Chromatography (A. 434) (C.719)
   c. Fluid Mosaic model (A. 13)(C.650)

Section 2

1. Give an account on (any two) (10)
   a. Gluconeogenesis (A. 135) (C.258)
   b. Beta oxidation of palmitic acid and its energetic (A. 191) (C.287)
   c. Metabolism of HDL cholesterol
2. Write Short notes on (any three) (9)
   a. Electron Transport Chain (A. 315, 318) (C. 226, 232)
   b. Glucose Tolerance test
   c. Molecular Basis of Cancer
   d. Monoclonal Basis of Cancer
   e. Air pollution and their adverse effects (A. 534) (C.663)
3. Write Short notes of (any six) (6)

a. Hyperuricemia is observed in Von Gierkes Disease (A. 548) (C. 394)
b. Ketonuria in prolonged starvation
c. G-6 PD deficiency provides protection against malaria
d. Muscle glycogen does not contribute to blood glucose
e. Dyslipidemia in diabetes mellitus
f. Lead toxicity causes anaemia
g. IgG protects the developing fetus
h. TCA cycle is a central metabolic pathway

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