

Date: 06-10-2016

MK 16801

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. Blood buffers & maintenance of blood pH (A. 398) (C. 475)
- b. Mention various types of abnormal Hemoglobin. Discuss sickle cell anaemia
- c. Degradation of heme & various types of jaundice (A. 332) (C. 216)

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

- a. Lipoproteins (A. 217) (C. 317)
- b. Is enzymes of clinical interest?
- c. Porphyrins (A. 328) (C.212)
- d. Competitive Inhibition (A. 63) (C.92)
- e. Active transport (A. 15) (C. 651)

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

- a. Immunoglobulin (A. 649) (C.186)
- b. Chromatography (A. 434) (C.719)
- c. Thyroid function test (A. 637) (C.465)

Section 2

4. Give an account on (any two) (10)

- a. Discuss beta oxidation of carbon 16 fatty acid with energetic (A. 194) (C.287)
- b. Describe HMP shunt with its significance (A. 144) (C. 270)
- c. Explain chemiosmotic hypothesis

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

- a. Structure and functions of Immunoglobulin's (A. 649) (C.186)
- b. Enlist various cancer agents
- c. Ozone

- d. Good and bad cholesterol
- e. AIDS

6. Write Short notes of (any six) : A 45 years old male weighing 90 kg came to OPD 1x6 of a hospital with complaint of lethargy. Weakness and non-healing of foot injury. He also complaint that he felt very thirsty and gets up 4-5 times for urination at night. He has once investigated for blood sugar (R) which was 168 m/dl after examination he was advised Blood Sugar (PPLipid Profile HbA1C and Urine analysis. Answer following question with justification (6)

- a. What is the likely diagnosis?
- b. Why person is feeling lethargic?
- c. Why there is frequent Urination?
- d. What is the significance of HbA1C estimation?
- e. What biochemical parameters are to be detected in Urine?
- f. What dietary recommendation you advice to such persons?
