

Date: 06-10-2013

K 4105

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) Atherosclerosis and significance of high density lipoprotein (A. 228, 222)(C. 326, 320)
- b) Glycogen storage diseases (A. 144) (C.269)
- c) Discuss how enzymes is classified? Write an account of various factors affecting enzyme

activity

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

- a) Enzyme inhibition (A. 63) (C.92)
- b) Classification of lipids
- c) Disaccharides
- d) Functions of cholesterol
- e) Porphyrias (A. 328) (C.212)

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

- a) Renal function test (A. 370) (C. 459)
- b) Metabolic acidosis (A. 402) (C.481)
- c) Composition of urine

Section 2

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

- a) Conjugation reaction in Detoxification and its importance (A. 525) (C. 640)
- b) Glycogenolysis and its regulation (A. 140) (C.265)
- c) Oxidation of odd-chain fatty acids, mentioning the role of Vit-B12

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

- a) Carcinogens
- b) Regulation of fatty acid synthesis
- c) Importance of bile salts in digestion and absorption of fats
- d) Clinical importance of HMP shunt
- e) Health hazard of water pollution

6. Read the following case and answer the questions in two or three lines only.: Any

six of the following: A middle aged businessman aged 42 years was brought to (6)

Dharpur civil hospital in semicomatose patient was a known case of NIDDM. He did not take antidiabetogenic drug for last 20-25 days.

Ophthalmic checkup revealed cataract in both eyes. Lab Report of blood sample taken at the time of admission Random plasma glucose - $>45 \text{ mg\%}$ 31cod ph- >7.30 , urine sugar - $>++++$ Ketone Bodies detected in urine sample of patient

- a) Mention the likely cause of low blood ph in this patient
- b) Name ketone Bodies excreted in patient's urine
- c) Mention 2-3 differences between NIDDM and IDDM
- d) Mention the reason for polyuria in this patient
- e) Why glucose level was elevated in this

patient?

f) What is glycosylated Hb? Why it is often estimated in patients of Diabetes Mellitus

g) Mention the name of hormone that brings down blood glucose level in human being

h) Iodine deficiency leads to Goitre

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