

Date: 11-10-2015

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.

First Year MBBS Examination

I MBBS Biochemistry Paper 1

Time: 3 hours

Max Marks:

50

Section 1

1. Write short notes on: (any two) (10)
 - a) Diagnostic biomarkers in acute myocardial infarction
 - b) Jaundice
 - c) Role of hormones in regulation of blood glucose
 2. Write Short notes on (any three) (9)
 - a) Metabolic acidosis
 - b) Importance of HMP shunt
 - c) Sickle cell anemia
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d) Pyruvate dehydrogenase complex

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

- a) Renal function test
- b) Structure and function of Immunoglobulin
- c) Fatty liver

Section 2

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

- a) Describe reactions energetic importance & regulation of Citric acid cycle.
- b) What are Lipoproteins? Explain the role of HDL in lipoprotein metabolism
- c) Explain electron transport chain & its inhibitors

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

- a) β -Oxidation of Palmitic acid
- b) Glycogen storage disease
- c) Air pollution and their adverse effects
- d) Oncogenic viruses
- e) Ketone bodies

6. Case Give answers of any six: A 45 years old obese business man with complaint of excessive hunger, thirst, urination and non-healing injury of lower leg was consulted by physician. Before starting treatment suggest.
(6)

- a) What is the probable diagnosis, justify
- b) What investigation to be done in blood for confirmation of diagnosis
- c) What investigation to be done in urine sample
- d) Suggest special investigation for monitoring during treatment
- e) What is the reason for excessive hunger, thirst & urination?
- f) What is the reason for non-healing injury?
- g) Indicate other abnormalities likely to be developed if disease is not properly managed.
- h) What advice regarding diet to be given

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