


MN-4005
First Year M. B. B. S. Examination
December - 2013
Biochemistry : Paper - I

Time : Hours]

[Total Marks : 50

Instruction :

୦୫ ଘଣ୍ଟା ମଧ୍ୟରେ ଉତ୍ତର ଦେବାକୁ ଦିଆଯାଇଛି ଏବଂ ଉତ୍ତର ଲେଖିବା ସମୟରେ ଏହାକୁ ଠିକ୍ ଭାବରେ ଲେଖିବାକୁ ନିର୍ଦ୍ଦେଶ ଦିଆଯାଇଛି। Fillup strictly the details of signs on your answer book.		Seat No. :
Name of the Examination : F. Y. M.B.B.S.		
Name of the Subject : BIOCHEMISTRY-I		
Subject Code No. : 4 0 0 5	Section No. (1, 2, ...): 1&2	Student's Signature

SECTION - I
Q-1. Write short notes (Any Two)

(8)

- 1) Write VLDL metabolism
- 2) Explain renal regulation of acid base balance.
- 3) Write significance and regulation of HMP shunt.

Q-2. Describe in brief (Any Four)

(12)

- 1) Mucopolysaccharides
- 2) Vitamin B
- 3) Obesity
- 4) Electron transport chain
- 5) Peculiarities of glycolysis in RBC.
- 6) Basal Metabolic Rate

SECTION - II
Q-3. Read the following case and answers the questions.

(10)

A 59 year old male visited to medicine OPD for regular follow up he is diabetic for last seven years. He complained about tingling and numbness in lower toes, a non-healing ulcer over left heel. His doctor told him that this is because of peripheral neuropathy. Recently he developed cataract. His blood reports are

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[Contd...

Random plasma glucose level : 223 mg/dl, HbA_{1c} : 9.2 % (normal range 4.5 to 6 %)

- 1) What is the significance of glycated haemoglobin or HbA_{1c}?
- 2) What is the cause of peripheral neuropathy?
- 3) Why there is cataract in uncontrolled diabetes mellitus?
- 4) What are the values of normal fasting and PP2BS levels?
- 5) Why fluoride is used as preservative in plasma glucose estimation?

Q-4. Answer in few lines (Any Five)

10

- 1) Vitamin C deficiency causes scurvy.
- 2) Oral rehydration solution contains glucose as well as sodium chloride.
- 3) HDL cholesterol is good cholesterol.
- 4) Premature Baby may have Respiratory Distress Syndrome.
- 5) Kwashiorkor leads to edema.
- 6) Sucrose is non-reducing sugar.
- 7) Dietary fibres are good for health.