

2013

(July)

NUTRITION & BIOCHEMISTRY

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks
for the questions

Answer **all** questions

1. Fill in the blanks

1 × 5 = 5

- (a) Active form of Vitamin D is
- (b) Deficiency of causes Pellagra.
- (c) Simplest form of carbohydrates is known as
- (d) is sulphur containing amino acid.
- (e) Urea is synthesized in

2. Choose the correct answer

1 × 5 = 5

- (a) Uracil is absent in DNA/RNA.
- (b) Sphingomyelin is an example of glycolipid/phospholipid.
- (c) NADPH is produced in uronic acid pathway/HMP shunt pathway.
- (d) Lactate/Pyruvate is the end product of anerobic glycolysis.
- (e) Chylomicnous are synthesized in hepatocytes/enterocytes.

3. Write short notes (*any five*)

5 × 5 = 25

- (a) Beri Beri
- (b) Vitamin C
- (c) Vitamin A deficiency programme
- (d) Electrophoresis
- (e) Dehydration
- (f) Rothera's test

4. Name the fat soluble vitamins. Write down the source and deficiency sign & symptoms of vitamin A. Give the flow diagram of Wald's visual cycle.

2 + 4 + 4 = 10

Turn Over!

5. Classify carbohydrate with an example of each class. Write the nutritional importance of carbohydrate in our body. 5 + 5 = 10
6. What is the normal level of total plasma protein? Write the functions of albumin along with clinical application. 2 + 8 = 10
7. What is Balanced diet? Plan diet for pregnant woman of second trimester. 2 + 8 = 10
