

Total No. of Printed Pages – 2

SS/BSN-1/NB/6-14

2014

(June)

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) _____ is an example of non-reducing carbohydrate.
 - (b) Lipids are carried in blood with the help of _____.
 - (c) The hormone _____ raises blood glucose level.
 - (d) Vitamin D is synthesized in _____.
 - (e) _____ is a branched chain amino acid.
2. Choose the correct answer 1 × 5 = 5
- (a) Liver glycogen/Muscle glycogen maintains blood glucose level.
 - (b) Cholesterol is a compound/derived lipid.
 - (c) Vitamin K/Vitamin E helps in blood coagulation.
 - (d) Thiamin/Thymine is a nitrogenous base.
 - (e) Oleic acid is a PUFA/MUFA.

(Turn Over)

(2)

3. Name the dietary sources of Calcium. What is the normal serum calcium level? Discuss how this normal level is maintained in our body. $2 + 2 + 6 = 10$
4. What do you mean by gluconeogenesis? Show schematically the pathway of gluconeogenesis from lactate along with enzymes and coenzymes involved. $2 + 8 = 10$
5. Describe the fluid mosaic model of cell membrane. Discuss the various transport mechanisms. $5 + 5 = 10$
6. What are the different methods to assess nutritional status of an individual? Write briefly on P.E.M. $4 + 6 = 10$
7. Write short notes (*any five*) $5 \times 5 = 25$
- (a) Radioimmunoassay (RIA)
 - (b) Immunoglobulin
 - (c) Iodine deficiency disorders (IDD)
 - (d) Nutritional anaemia
 - (e) Balanced diet
 - (f) Transamination

* * *

12000
2699