

Seat No. : _____

XA-134

T.Y.B.Sc. (Annual Pattern)

March-2013

Biochemistry : Paper – VII

(Nutrition)

Time : 3 Hours]

[Max. Marks : 70

- Instructions :** (1) All questions carry equal marks.
(2) Figures on the right indicate full marks.
(3) Mention clearly the option you attempt.

1. (a) Discuss the role of dietary fiber in prevention of diseases. **6**
(b) Discuss Nitrogen balance and factors affecting it. **6**
(c) Define supplementary value of proteins. **2**

OR

- (a) Explain Trans fats. **6**
(b) Discuss the clinical features of Diabetes Mellitus. **6**
(c) What is BV of proteins ? **2**

2. (a) Discuss why the physiological fuel value of foods is less than the physical or gross fuel value of foods. **6**
(b) Write a brief note on Marasmus. **6**
(c) What is RQ ? **2**

OR

- (a) Discuss the etiology and clinical features of Kwashiorkor. **8**
(b) Discuss BMR briefly. **4**
(c) Which instrument do we use to measure the energy value of foods ? **2**

3. (a) Discuss the dietary sources, absorption and functions of Iron. **8**
(b) Name the fermented milk products and their advantages. **4**
(c) Define RDA. **2**

OR

- (a) Write a brief note on Balanced diets. 7
- (b) Discuss Processing of Cereals. 5
- (c) What is Goiter ? 2
4. (a) Explain any **two** : 12
- (1) Clinical features of Rickets.
- (2) Etiology of Obesity.
- (3) Iron deficiency anemia.
- (4) Etiology and Biochemical features of Beriberi.
- (b) What is Xerophthalmia ? 02
5. (a) Write a note on Natural food toxins. 7
- (b) Discuss how you will assess the Nutritional status of a person. 5
- (c) State the caloric and protein requirements of a lactating woman. 2
- OR**
- (a) Briefly explain Food Adulteration. 7
- (b) What are Food tables ? Discuss their uses. 5
- (c) Give an example of a food allergen and its effect. 2
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