



RO-0626

First Year B. Sc. (Nursing) Examination

June – 2010

Nutrition & Biochemistry

Time : Hours]

[Total Marks : 75

Instructions :

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य कर्जवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="First Year B. Sc. (Nursing) Examination"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Nutrition & Biochemistry"/>	<input type="text"/>
Subject Code No. : <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="2"/> <input type="text" value="6"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="A&B"/>	<input type="text"/>
	Student's Signature

- (2) Answer each Section-A and B in **separate** answer book.
- (3) Tie and submit each section separately.
- (4) Attempt any **five** questions from section B.
- (5) Each question from section B carries **six** marks.

SECTION - A

Marks : 45

(Nutrition)

- 1 Write any **two** 'essay' answers : 16
 - (a) What is dehydration ? Discuss function of water and its intake and loss. Classify water compartment and write composition of different body fluid spaces.
 - (b) Classify cooking methods. Write methods to enrich family diet in detail.
 - (c) What is fibre ? Write its function. Write about high fibre diet in detail.
- 2 Write any **three** short notes : 15
 - (a) Sodium
 - (b) Pulses and its antinutritional factors
 - (c) EFA and functions of fat.
 - (d) Special feeding techniques.

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[Contd...

- 3 Write sample menu for 23 year old muslim male doing farming work. Write calorie requirement and balanced diet for an adult. 5
- 4 Write any two short answers : 4
- (a) BMI
 - (b) Food fortification
 - (c) Sources of class-I protein. OR complete protein.
- 5 Write deficiency disease of the followings : (any five) 5
- (1) Calcium
 - (2) Vitamin D
 - (3) Vitamin C
 - (4) Vitamin B₁₂
 - (5) Vitamin A
 - (6) Iodine.

SECTION - B
(Biochemistry)

Marks : 30

- 1 Describe structure and functions of cell membrane and just name transport mechanism across cell membrane.
- 2 Explain TCA cycle and energetics of it.
- 3 Give definition of ketosis, ketonuria and ketogenesis and discuss the importance of ketone body formation.
- 4 Classify immunoglobins and explain ELISA.
- 5 Define and classify vitamins and write two functions of each.
- 6 Define and classify enzymes and write factors affecting enzyme activity.
- 7 Classify proteins and name all essential aminoacids and write its functions.