

**MEDICAL****[BSCN 0224]****FEBRUARY 2024****Sub. Code: 4702****B.Sc. (Nursing) DEGREE EXAMINATION  
(Regulation 2006-2007 onwards)****FIRST YEAR  
PAPER II – NUTRITION AND BIOCHEMISTRY  
Q.P. Code: 664702****Time : Three Hours****Maximum : 75 Marks****Answer Section A and Section B Separately****SECTION - A  
(NUTRITION)****I. Elaborate on:****(1 x 15 = 15)**

1. Define BMR and explain the factors affecting BMR in detail.

**II. Write notes on:****(4 x 5 = 20)**

1. Anthropometric measurement.
2. Anaemia.
3. ICDS.
4. Functions of fats.

**III. Short answers on:****(5 x 2 = 10)**

1. Define Malnutrition.
2. Give any four examples of supplementary foods for an infant.
3. List down the signs and symptoms of Beri-beri.
4. Give the classification of Carbohydrates.
5. List down the food sources of Vitamin C.

**SECTION - B  
(BIOCHEMISTRY)****I. Elaborate on:****(1 x 15 = 15)**

1. What is the normal fasting, post Prandial and random blood glucose level?  
Add in detail about hormonal regulation of blood glucose level.

**II. Write notes on:****(1 x 5 = 5)**

1. Add note on cardiac functional enzymes.

**III. Short answers on:****(5 x 2 = 10)**

1. Bitot spots.
2. Essential and Non-essential Amino acids.
3. Name four specialised proteins.
4. Define pH. What is normal blood pH?
5. Atherosclerosis.

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