



**First Basic B.Sc. Nursing Examination, (Phase - III) Winter - 2021**  
**NUTRITION AND BIOCHEMISTRY**

Total Duration : Section A+B = 3 Hours

Total Marks : 75

**SECTION - A & SECTION - B**

- Instructions :**
- 1) Use **blue/black** ball point pen only.
  - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
  - 3) **All questions are compulsory.**
  - 4) The number to the **right** indicates **full marks**.
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  - 7) Use a common answerbook for **all sections**.

**SECTION - A (45 Marks)**

**(Nutrition)**

1. Short answer questions (**any five out of six**) : **[5 × 5 = 25]**
- a) Discuss fat soluble Vitamins.
  - b) Discuss Food additives.
  - c) National nutritional policy in India.
  - d) Discuss the classification of food.
  - e) Discuss Principles of Cooking.
  - f) Factors affecting the electrolyte imbalance.

2. Long answer questions (any two out of three) : [2 × 5 = 10]
- Discuss in details about the protein energy malnutrition.
  - Define therapeutic diet and its type.
  - Discuss the Mid Meal Programme.

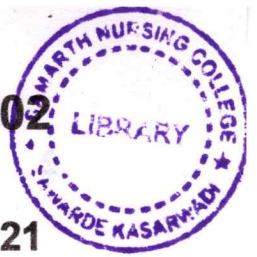
3. Short answer questions (any two out of three) : [2 × 5 = 10]
- Factors affecting the nutrition during illness.
  - Define over hydration and causes of for same.
  - Discuss about Vitamin C its sources and deficiency.

**SECTION - B (30 Marks)**

**(Biochemistry)**

4. Short answer questions (any four out of five) : [4 × 5 = 20]
- Functions of Vitamin C.
  - Composition and functions of Cell.
  - Factors affecting enzyme activities.
  - Regulation of blood glucose level.
  - Sources and Functions of Phosphorus.
5. Long answer questions (any one out of two) : [1 × 10 = 10]
- Discuss Cholesterol metabolism in detail.
  - Give sources, daily requirement biochemical functions and deficiency manifestations of calcium.

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**(Biochemistry)**

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**First Basic B.Sc. Nursing Examination, (Phase - III) Winter - 2021**  
**MICROBIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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  - 7) **Use** a common answerbook for **all** sections.

**SECTION - A (40 Marks)**

1. Short answer question (**any five** out of six) :

[5 × 5 = 25]

- a) Write a note on gram staining.
- b) Bacterial growth curve.
- c) Precipitation reaction.
- d) Biomedical waste management.
- e) Life cycle of malaria parasite
- f) Candidiasis

2. Long answer question (any one out of two) : [1 × 15 = 15]

- a) What is immunity? Explain different types of immunity.
- b) Classify culture media. Describe each type of culture media with one example of each.

**SECTION - B (35 Marks)**

3. Short answer question (any four out of five) : [4 × 5 = 20]

- a) Pathogenicity of tuberculosis.
- b) Enlist Koch's postulates.
- c) Bacterial spore.
- d) Widal test.
- e) Write a note on autoclave.

4. Long answer question (any one out of two) : [1 × 15 = 15]

- a) Write pathogenesis and laboratory diagnosis of enteric fever.
- b) Describe various methods of transmission of infection with example of each.







**First Basic B.Sc. Nursing Examination, (Phase - III) Winter - 2021**  
**NUTRITION AND BIOCHEMISTRY**

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[2 × 5 = 10]

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- b) Define over hydration and causes of for same.
- c) Discuss about Vitamin C its sources and deficiency.

### SECTION - B (30 Marks)

#### (Biochemistry)

4. Short answer questions (any four out of five) :

[4 × 5 = 20]

- a) Functions of Vitamin C.
- b) Composition and functions of Cell.
- c) Factors affecting enzyme activities.
- d) Regulation of blood glucose level.
- e) Sources and Functions of Phosphorus.

5. Long answer questions (any one out of two) :

[1 × 10 = 10]

- a) Discuss Cholesterol metabolism in detail.
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**First Basic B.Sc. Nursing Examination, (Phase - III) Winter - 2021**  
**NURSING FOUNDATION**

Total Duration : 3 Hours

Total Marks : 75

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  - 7) Use a common answerbook for **all** sections.

**SECTION - A (40 Marks)**

1. Short answer question (any five out of six) : [5 × 5 = 25]
- a) Health illness continuum.
  - b) Professional conduct for nurses.
  - c) Types of discharges.
  - d) Postural drainage.
  - e) Nosocomial infection.
  - f) Principles of administration of oral medication.



2. Long answer question (any one out of two) : [1 × 15 = 15]
- a) i) Define nursing process [2]
  - ii) Explain steps of nursing process [6]
  - iii) Prepare nursing careplan with two priority nursing diagnosis for the patient with abdominal pain and vomiting [7]
  - b) i) Define communication [2]
  - ii) Explain types and modes of communication [6]
  - iii) Describe communication process [7]

**SECTION - B (35 Marks)**

3. Short answer question (any four out of five) : [4 × 5 = 20]
- a) Factors affecting sleep.
  - b) Health belief model.
  - c) Factors affecting blood pressure.
  - d) Maslow's hierarchy needs.
  - e) Principles of body mechanics.

4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) i) Explain purposes of physical examination. [5]
  - ii) Describe methods of physical examination. [10]
  - b) i) Describe asepsis & its types. [5]
  - ii) Explain how to control infection in clinical setting. [10]





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**MICROBIOLOGY**

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**SECTION - A (40 Marks)**

1. Short answer question (any five out of six) :

[5 × 5 = 25]

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- b) Bacterial growth curve.
- c) Precipitation reaction.
- d) Biomedical waste management.
- e) Life cycle of malaria parasite
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2. Long answer question (any one out of two) : [1 × 15 = 15]
- a) What is immunity? Explain different types of immunity.
  - b) Classify culture media. Describe each type of culture media with one example of each.

**SECTION - B (35 Marks)**

3. Short answer question (any four out of five) : [4 × 5 = 20]
- a) Pathogenicity of tuberculosis.
  - b) Enlist Koch's postulates.
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  - d) Widal test.
  - e) Write a note on autoclave.
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Write pathogenesis and laboratory diagnosis of enteric fever.
  - b) Describe various methods of transmission of infection with example of each.





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PSYCHOLOGY

Total Duration : 3 Hours

Total Marks : 75

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  - 7) **Use a common answerbook for all sections.**

**SECTION - A (40 Marks)**

1. Short answer question (any five out of six) :

[5 × 5 = 25]

- a) Relation of psychology with other subjects.
- b) Control of emotions in patient.
- c) Methods of improving memory.
- d) Determinants of attention.
- e) Characteristics of Mentally Healthy Person.
- f) Stages of thinking.

2. Long answer question (any one out of two) :

[1 × 15 = 15]

- a) i) Define memory.  
 ii) Explain Long Term Memory and Short Term Memory.  
 iii) Discuss effective study habits.
- b) i) What is motivation.  
 ii) Discuss types of motives.  
 iii) Discuss relevance of motivation for nurses.

**SECTION - B (35 Marks)**

3. Short answer question (any four out of five) :

[4 × 5 = 20]

- a) Theories of forgetting.  
 b) Define aptitude. What are the uses of aptitude test?  
 c) What is reasoning? Explain two methods of reasoning with example.  
 d) Problem solving.  
 e) Explain classical conditioning by Ivan Pavlov.

4. Long answer question (any one out of two) :

[1 × 15 = 15]

- a) i) Define intelligence.  
 ii) What are the causes of mental retardation?  
 iii) Discuss the importance of knowledge about the intelligence in nursing profession.
- b) Define frustration. What are the sources of frustration. How will you manage frustration?







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**ANATOMY AND PHYSIOLOGY**

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**SECTION - A (42 Marks)**

**(Anatomy)**

- 1. Short answer question (any six out of seven) : [6 × 5 = 30]**
- a) Explain Cerebrum.
  - b) Sternocleidomastoid muscle.
  - c) Anatomical position of Thyroid Gland.
  - d) Classify bones on the basis of size and shape with example of each.
  - e) Structure and functions of skin.
  - f) Relations of head of pancreas.
  - g) Supports of uterus.



2. Long answer question (any one out of two) : [1 × 12 = 12]
- a) Describe right kidney under following heads :
    - i) Location, shape, size, weight, orientation. [3]
    - ii) Relations [6]
    - iii) Applied anatomy [3]
  - b) Describe heart under following heads :
    - i) External features [6]
    - ii) Arterial supply and venous drainage [6]

**SECTION - B (33 Marks)**  
**(Physiology)**

3. Short answer question (any four out of five) : [4 × 5 = 20]
- a) Sodium potassium ATPase pump
  - b) Movements of small intestine
  - c) Composition and functions of CSF
  - d) Cushings syndrome
  - e) Oxygen haemoglobin dissociation curve

4. Long answer question (any one out of two) : [1 × 13 = 13]
- a) i) What is Oogenesis? Explain the functions of Ovaries in brief. [6]
  - ii) What are the importance of the knowledge of reproductive system in the practice of nursing. [7]

OR

- b) i) Define immunity. Give its classification. Add a note on vaccination. [6]
- ii) Write in detail about cell mediated immunity. [7]

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