

**First BASIC B.Sc. (Nursing) Examination, Summer - 2021**  
**ANATOMY AND PHYSIOLOGY**

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.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) Use a common answerbook for all Sections.

**SECTION - A (42 Marks)**

**(Anatomy)**

1. Short answer question (any six out of seven) : [6 × 5 = 30]
- a) Types of Tissues.
  - b) Popliteal fossa.
  - c) Classifications of joints.
  - d) Mechanism of Respiration.
  - e) Papillae of tongue. → 3 papillae
  - f) Lobes of liver.
  - g) Enumerate abnormalities of organs of nervous system.

2. Long answer question (any one out of two) : [1 × 12 = 12]
- Describe right lung under following heads : (i) anatomical position, size, shape (ii) lobes and bronchopulmonary segments (iii) blood supply
  - Describe thyroid gland under following heads: (i) situation, size, shape (ii) relations (iii) blood supply

**SECTION - B (33 Marks)**

**(Physiology)**

3. Short answer question (any four out of five) : [4 × 5 = 20]
- Describe cell.
  - Addison's disease.
  - Write in brief any five functions of liver.
  - Abnormalities of uterus.
  - Describe Juxtaglomerular apparatus with the help of a neat well labelled diagram and give its functions.
4. Long answer question : [1 × 13 = 13]
- Define immunity. Describe cell mediated immunity.
  - Add a note on AIDS.

OR

- Long answer question : [1 × 13 = 13]
- Describe the transport of carbondioxide in the blood.
  - Explain Haldane's effect and its significance to carbondioxide transport.





**First BASIC B.Sc. (Nursing) Examination, Summer - 2021**  
**NUTRITION AND BIOCHEMISTRY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

**Section - A & Section - B**

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  - 3) **All** questions are **compulsory**.
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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) Different methods of food preservation.
  - b) What is mean by food standards and what is importance of it.
  - c) Importance of micro and macro nutritive elements for body.
  - d) National iodine deficiency disorders and its preventive measures.
  - e) Functions of Protein.
  - f) Factors affecting the fluid imbalance

2. Long answer questions (**any two** out of three) : **[2 × 5 = 10]**
- a) Factors influencing the food selection.
  - b) Causes and its management of Malnutrition.
  - c) Principles of cooking.

3. Short answer questions (**any two** out of three) : **[2 × 5 = 10]**
- a) Factors influencing the absorption of carbohydrate.
  - b) Iron deficiency anemia.
  - c) Discuss the Body mass index and its importance in Nutrition.

**SECTION - B (30 Marks)**

**(Biochemistry)**

4. Short answer questions (**any four** out of five) : **[4 × 5 = 20]**
- a) Enumerate various transport mechanism. Add note on active transport
  - b) Explain Functions of Trace elements
  - c) Describe regulation of Blood Glucose
  - d) PH buffers.
  - e) Explain Immunoglobulins
5. Long answer questions (**any one** out of two) : **[1 × 10 = 10]**
- a) Describe sources, recommended daily allowance, deficiency manifestation of Vitamin D
  - b) What is Collagen? How they are synthesized? Describe some abnormalities of collagen biosynthesis.



**First BASIC B.Sc. (Nursing) Examination, Summer - 2021**  
**NURSING FOUNDATION**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

**Section - A & Section - B**

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  - 3) **All** questions are **compulsory**.
  - 4) The number to the **right** indicates **full** marks.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 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) Golden rules of bandaging
  - b) Therapeutic environment
  - c) Maslow's hierarchy of basic needs
  - d) Classification of hospital
  - e) Factors influencing on blood pressure
  - f) Five rights for safety drug administration



2. Long answer question (**any one** out of two) : **[1 × 15 = 15]**
- a) Explain grief briefing process. Enlist the signs of clinical death. Explain care of dying patient
  - b) Define pulse. Explain the characteristics of pulse. Explain factors affecting pulse.

**SECTION - B (35 Marks)**

3. Short answer question (**any four** out of five) : **[4 × 5 = 20]**
- a) Communication process
  - b) Levels of disease prevention
  - c) Code of ethics
  - d) Factors affecting body temperature
  - e) Methods of sterilization
4. Long answer question (**any one** out of two) : **[1 × 15 = 15]**
- a) Define nursing process. Describe the characteristics of nursing process. Write down the steps in nursing process.
  - b) Define drug. Explain the purposes of drug administration. Explain the various routes of drug administration. Explain nurses responsibility in drug administration.



**First Basic B.Sc. Nursing Examination, Summer - 2021**  
**PSYCHOLOGY**

Total Duration : 3 Hours

Total Marks : 75

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  - 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.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 7) Use a common answer book for all Sections.

**SECTION - "A" (40 Marks)**

1. Short answer question (**any five** out of six) : [5 × 5 = 25]
  - a) Describe Scope of psychology.
  - b) Nature of Intelligence.
  - c) Write concept and types of aptitude.
  - d) Alteration in personality.
  - e) Steps in problem solving.
  - f) Warning signs of poor mental health.
  
2. Long answer question (**any one** out of two) : [1 × 15 = 15]
  - a)
    - i) Define Learning. [2]
    - ii) Describe the various laws of learning. [5]
    - iii) Explain in detail the learning by classical conditioning. [8]
  - b)
    - i) Define Attention. [3]
    - ii) Explain the types and importance of attention in our life. [7]
    - iii) Describe alteration of attention. [5]

**SECTION - "B" (35 Marks)**

3. Short answer question (**any four** out of five): [4 × 5 = 20]
- a) Guidance and counselling.
  - b) Defense mechanisms.
  - c) Types of personality.
  - d) Conflict Resolution.
  - e) Methods to improve memory.
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a)
    - i) Define Thinking. [2]
    - ii) Describe the different nature and types of thinking. [8]
    - iii) Discuss the implications of creative thinking in nursing. [5]
  - b)
    - i) Define Emotion. [2]
    - ii) Describe the components and characteristics of emotions. [5]
    - iii) Explain the role of emotions in health and illness. [8]





**First Basic B.Sc. Nursing Examination, Summer - 2021**  
**MICROBIOLOGY**

Total Duration : 3 Hours

Total Marks : 75

- 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**.
  - 5) Draw diagrams **wherever** necessary.
  - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
  - 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 short note on Sample Collection in Microbiology.
  - b) Enlist different Staining methods and describe the Steps of Gram staining.
  - c) What is virulence? Explain its determinants.
  - d) Describe Hospital Infection Control committee.
  - e) Describe the Role of Nurses in Microbiology.
  - f) Define Sterilization and Disinfection. Enlist any four chemical disinfectants used in the hospital.
  
2. Long answer question (**any one** out of two) : [1 × 15 = 15]
  - a) Classify Culture media with suitable examples of each. Describe the method of sterilization of Lowenstein Jensen (LJ) medium.
  - b) Define Enteric Fever. Describe the causative agents of Enteric fever. Explain the Laboratory Diagnosis and Prophylaxis of Enteric fever.

**SECTION - "B" (35 Marks)**

3. Short answer question (**any four** out of five): [4 × 5 = 20]
- a) Enumerate any two organisms causing Diarrhea. Describe laboratory diagnosis of cholera.
  - b) Describe growth curve of bacteria.
  - c) Write contributions of Robert Koch.
  - d) Draw a labelled diagram of Human Immunodeficiency Virus (HIV). Explain the modes of transmission of HIV.
  - e) Define Hospital Acquired Infections and measures to control them.
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Define Immunity. Explain Innate and Acquired Immunity in detail.
  - b) Describe Morphological Classification of Bacteria with suitable examples. Write a note on bacterial flagella.

