

First Basic B.Sc. (Nursing) Examination, Summer - 2024
Phase - II
ANATOMY AND PHYSIOLOGY

Total Duration : 3 Hours

Total Marks : 75

- Instructions :**
- 1) Use 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 questions (any six out of seven) :** **[6 × 5 = 30]**
- a) Discuss Relations of urinary bladder in male.
 - b) Explain Structure of the skin.
 - c) Describe Endoplasmic Reticulum.
 - d) Explain Muscles of gluteal region.
 - e) Discuss structure of cell.
 - f) Explain the Difference between small and large intestine.
 - g) Explain structure of the heart.
- 2. Long answer questions (any one out of two) :** **[1 × 12 = 12]**
- a) Describe thyroid gland under following headings:
 - i) Morphology & location
 - ii) Relations
 - iii) Blood supply
 - iv) Applied anatomy

- b) Describe left lung under following heads :
- i) Features
 - ii) Mediastinal surface
 - iii) Root
 - iv) Clinical anatomy

SECTION - B (33 Marks)

(Physiology)

3. Short answer questions (any four out of five) : [4 × 5 = 20]
- a) Explain Process of blood coagulation.
 - b) Discuss Immunity.
 - c) Explain Functions of the skin.
 - d) Discuss Conduction system of the Heart.
 - e) Discuss functions of the Gastric juice.

4. Long answer questions (any one out of two) : [1 × 13 = 13]
- a) Enumerate composition of cerebrospinal fluid (CSF). Describe reflex arc. [6]
 - b) Explain types of lung volumes. Describe physiology of respiration. [7]

OR

- Long answer question : [1 × 13 = 13]
- a) Explain mechanism of absorption of food. [6]
 - b) Define Glomerular Filtration Rate (GFR). Explain factors affecting GFR. [7]



First BASIC B.Sc. (Nursing) Examination, Summer - 2024
Phase - II
NUTRITION AND BIOCHEMISTRY

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Total Marks : 75

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SECTION - A

(Nutrition)

1. **Short Answer Questions (Solve any 5 out of 6) :** **[5 × 5 = 25]**
 - a) Classification of Food
 - b) Factors Affecting Basic Metabolic rate(BMR)
 - c) Vitamin A deficiency program
 - d) Function and sources of protein
 - e) Nurses Role in Nutrition education
 - f) Factors inhibiting and enhancing Iron absorption

2. **Long Answer Questions (Solve any 2 out of 3) :** **[2 × 5 = 10]**
 - a) 2 methods of cooking and describe its effect on nutritive value
 - b) Protein Energy Malnutrition
 - c) Dehydration and its Management

3. Short Answer Questions (Solve any 2 out of 3) :

[2 × 5 = 10]

- a) Factors affecting food selection
- b) List the methods of preservation and elaborate any one
- c) Distinguish between Macronutrients and Micronutrients

SECTION - B

(Biochemistry)

4. Short Answer Questions (Solve any 4 out of 5) :

[4 × 5 = 20]

- a) Explain essential fatty acids
- b) Describe process of digestion and absorption of amino acid
- c) Describe tests for detection of protein in urine
- d) Elaborate functions of plasma protein
- e) Discuss effect insulin on carbohydrate metabolism

5. Long Answer Questions (Solve any 1 out of 2) :

[1 × 10 = 10]

- a) Discuss aerobic glycolysis and its energetics.
- b) Write in detail about essential nutrients.



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Phase - II
NURSING FOUNDATION

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SECTION - A (40 Marks)

1. Short Answer Question (any 5 out of 6) : [5 × 5 = 25]
 - a) Barriers to effective communication
 - b) Differentiate between active and passive immunity
 - c) Methods of Physical examination
 - d) Functions of hospitals
 - e) Characteristics of pulse and factors affecting pulse rate
 - f) Ethical principles in Nursing

2. Long Answer Questions (any 1 out of 2) : [1 × 15 = 15]
 - a) Define Nursing. Explain the criteria of a profession. Justify Nursing as a profession.
 - b) Define vital signs. Explain factors regulating body temperature. Describe nursing management of a patient having fever with help of a nursing care plan.

P.T.O

SECTION - B (35 Marks)

3. Short Answer Questions (Solve any 4 out of 5) [4 × 5 = 20]

- a) Stages of pressure ulcer with management
- b) Care of dead body
- c) Health Belief Model
- d) Effects of hot and cold application
- e) Personal Protective Equipment

4. Long Answer Questions (any 1 out of 2) : [1 × 15 = 15]

- a) Define respiration. Explain the methods of Oxygen administration. Describe the responsibility of a nurse in steam inhalation
- b) Explain forms of medications. Describe Routes of administration of medications. Explain nurse's responsibility while administrating medications.



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Phase - II
PSYCHOLOGY

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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
 - 5) Draw diagrams **wherever necessary**.
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SECTION - A (40 Marks)

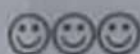
1. **Short Answer Questions (any five out of six) :** [5 × 5 = 25]
 - a) Factors affecting attitude.
 - b) Explain 2 personality disorders.
 - c) Explain Preventive mental health strategies.
 - d) Explain body mind relationship.
 - e) Enlist projective tests and explain Rorschach ink blot test.
 - f) Explain techniques of conflict resolution.

2. **Long Answer Questions (any one out of two) :** [1 × 15 = 15]
 - a)
 - i) Define Learning. [2]
 - ii) Explain any 3 major laws of learning. [6]
 - iii) Explain the theory of trial and error with example. [7]
 - b)
 - i) Define Motivation. [2]
 - ii) Explain 2 theories of motivation. [8]
 - iii) Explain types of motivation. [5]

P.T.O

SECTION - B (35 Marks)

3. **Short Answer Questions (any four out of five) :** [4 × 5 = 20]
- a) Explain observational method of psychology.
 - b) Role of nurse in controlling emotions of self.
 - c) Causes of mental retardation.
 - d) Listening skill and its importance in nursing.
 - e) Explain 2 extrinsic factors affecting attention.
4. **Long Answer Question (any one out of two) :** [1 × 15 = 15]
- a)
 - i) Define Intelligence. [2]
 - ii) Explain classification of intelligence. [5]
 - iii) Explain 2 theories of intelligence in detail. [8]
 - b)
 - i) Define stress. [2]
 - ii) Explain effect of stress on the body. [5]
 - iii) Explain 4 stress management techniques. [8]



First Basic B.Sc. (Nursing) Examination, Summer - 2024
Phase - II
MICROBIOLOGY

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Total Marks : 75

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SECTION - A (40 Marks)

1. **Short Answer Questions (any five out of six) :** **[5 × 5 = 25]**
 - a) Write contributions of Louis Pasteur
 - b) Write a note on Hospital Infection
 - c) Write life cycle of Malarial Parasites.
 - d) Write a note on Blood culture.
 - e) Draw a neat well labelled diagram of HIV
 - f) Write a note on ZN staining

2. **Long Answer Question (any one out of two) :** **[1 × 15 = 15]**
 - a) Define Sterilisation & Disinfection. Describe in detail about sterilisation by moist heat.
 - b) Draw neat well labelled diagram of Hepatitis B Virus. Write its morphology, pathogenicity & laboratory diagnosis.

SECTION - B (35 Marks)**3. Short Answer Questions (any four out of five) :****[4 × 5 = 20]**

- a) Write a note on bacterial cell wall.
- b) Define carriers. Mention different types of carriers with examples.
- c) Type I Hypersensitivity reaction
- d) Write life cycle of *Ascaris lumbricoides*
- e) Name three DNA & three RNA viruses.

4. Long Answer Question (any one out of two) :**[1 × 15 = 15]**

- a) Write morphology, pathogenicity & Laboratory diagnosis of *Mycobacterium tuberculosis*.
- b) Write morphology, pathogenicity & Laboratory diagnosis of *Treponema pallidum*.



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