

First Basic B.Sc. Nursing Examination, Winter - 2023 (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 answer book for all sections.

SECTION "A" (42 Marks)

Anatomy

I) Short answer question (any six out of seven): **[6 × 5 = 30]**

- a) Explain structure of Kidney
- b) Discuss Structure of the skin
- c) Explain Structure of the Ear
- d) Describe the Parts of Small Intestine
- e) Discuss Boundaries and content of femoral triangle
- f) Describe Deltoid muscle
- g) Explain Trachiobronchial Tree

2) **Long answer question (any one out of two):** [1 × 12 = 12]

- a) Explain the Heart under following headings: (i) Structure of heart (ii) Blood supply (iii) Conduction system of heart (iv) Applied anatomy
- b) Describe the thyroid gland under following headings: i). Structure ii). Relations iii). Blood supply iv). Applied anatomy

SECTION "B" (33 Marks)
Physiology

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

- a) Discuss mechanism of respiration
- b) Describe types of immune response.
- c) Discuss Factors affecting blood pressure.
- d) Explain fluid and electrolyte balance.
- e) Discuss Functions of the skin.

4) **Long answer question:** [1 × 13 = 13]

- a) Define synapse. Describe synaptic transmission. [6]
- b) Enumerate functions of thyroid gland. Add a note on hypothyroidism. [7]

OR

Long answer question: [1 × 13 = 13]

- c) Explain oxygen transport from lungs to tissues. [6]
- d) Describe digestion process in alimentary tract. [7]



First Basic B.Sc. Nursing Examination, Winter - 2023 (Phase - II)
NUTRITION AND BIOCHEMISTRY

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Total Marks : 75

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SECTION "A"

Nutrition

Q1) Short Answer Questions (Solve any 5 Out of 6):

[5 × 5 = 25]

- a) Factors influencing the food selection.
- b) Deficiency and Excess of Fat in diet
- c) Different methods of cooking
- d) Deficiency of Iron.
- e) Deficiency of Vitamin A.
- f) Mid day meal programme

Q2) Long Answer Questions(Solve any 2 Out of 3) : [2 × 5 = 10]

- a) Discuss food adulteration, describe the importance of Food Adulteration Act
- b) Define Malnutrition. Discuss the difference between Kwashiorkor and marasmus
- c) Enlist the nutrition programme and role of nurse in nutrition programme

Q3) Short Answer Questions (Solve any 2 Out of 3): [2 × 5 = 10]

- a) Define electrolyte imbalance and its effect on human body.
- b) Discuss balance diet. Describe the steps involved in planning diet.
- c) Discuss the importance of water soluble vitamins and preservation of water soluble vitamin during cooking.

SECTION "B"

Biochemistry

Q4) Short Answer Questions (Solve any 4 Out of 5) : [4 × 5 = 20]

- a) Function and deficiency manifestation of vitamin A.
- b) Define enzymes. Explain in details about factors affecting enzyme action.
- c) Protein Energy Malnutrition.
- d) Draw a neat label diagram of Cell and Discuss the functions of Cell membrane
- e) Glucose Tolerance Test.

Q5) Long Answer Questions(Solve any 1 Out of 2): [1 × 10 = 10]

- a) Describe urea cycle considering following points:
Need, Location, Reaction, Sequence and Energy required.

OR

- b) Explain steps of TCA cycle and Discuss energy production.



FIRST BASIC B.Sc. Nursing Examination, Winter - 2023 (Phase - II)
Nursing Foundation

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Total Marks : 75

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Section "A" (40 Marks)

Q1) Short answer question (any five out of six):

[5 × 5 = 25]

- a) Classification of hospital.
- b) Methods of physical examination.
- c) Comfort devices.
- d) Principles of bandaging.
- e) Oxygen administration.
- f) Role of nurse in admission of patient in hospital.

P.T.O.

Q2) Long answer question (any one out of two): [1 × 15 = 15]

- a) i) Define pyrexia. [2]
 ii) Enlist various sites used of temperature monitoring [5]
 iii) Enlist the articles required for tapid sponge. Write nursing care plan for patient with high fever on two priority needs. [8]
- b) i) Define nursing. Explain code of ethics in nursing. [5]
 ii) Enumerate role and functions of nurse. [5]
 iii) List down qualities of nurse and criteria of nursing profession. [5]

Section "B" (35 Marks)

Q3) Short answer question (any four out of five): [4 × 5 = 20]

- a) Care of rubber goods.
 b) Therapeutic environment.
 c) Nursing care of patient with breathlessness.
 d) First aid for burns.
 e) Nurse patient relationship.

Q4) Long answer question (any one out of two): [1 × 15 = 15]

- a) i) Define nursing process. [2]
 ii) Describe the characteristics of nursing process. [6]
 iii) Explain steps of nursing process. [7]
- b) i) Define bed sore. [2]
 ii) Enlist the pressure points. Write down stages of bed sore. [6]
 iii) Write in detail about prevention and treatment of bed sore. [7]



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First Basic B.Sc. Nursing Examination, Winter - 2023 (Phase - II)
PSYCHOLOGY

Total Duration : 3 Hours

Total Marks : 75

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 - 7) Use a common answer book for all sections.

Section "A" (40 Marks)

Q1) Short answer question (any five out of six):

[5 × 5 = 25]

- a) Explain Maslow's Theory of motivation
- b) Characteristics of emotion
- c) Importance of psychology in nursing
- d) Characteristics of mentally healthy person
- e) Types of conflicts
- f) Explain 3 techniques of stress management

Q2) Long answer question (any one out of two):

[1 x 15 = 15]

- a) i) Define attention [2]
 ii) List and explain 5 factors affecting attention [5]
 iii) Explain span of attention [2]
 iv) Describe how would you ensure to get sustained attention and reduce distraction of students. [6]
- b) i) Define Learning. [2]
 ii) Explain 4 factors affecting learning. [8]
 iii) Explain the theory of classical conditioning. [5]

Section "B" (35 Marks)

Q3) Short answer question (any four out of five):

[4 x 5 = 20]

- a) Psychological problems of rape victim
 b) Explain problem solving process
 c) Role of nurse in guidance and counselling
 d) Distinguish between hallucination and illusion (3 points each)
 e) Explain 3 factors affecting intelligence

Q4) Long answer question (any one out of two):

[1 x 15 = 15]

- a) i) Define perception [2]
 ii) What is the difference between perception and sensation [5]
 iii) Explain briefly any 4 principles of perception. [8]
- b) i) Define memory [2]
 ii) Explain types of memory with examples [6]
 iii) Explain various methods to improve memory [7]



First Basic B.Sc. Nursing Examination, Winter - 2023 (Phase - II)
MICROBIOLOGY

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Total Marks : 75

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Section "A" (40 Marks)

Q1) Short answer question (any five out of six):

[5 × 5 = 25]

- a) Difference between cell wall gram positive and gram negative bacteria
- b) Three technique to demonstrate treponema pallidum in laboratory
- c) Staphylococcus aureus
- d) Structure and function of bacterial flagella
- e) Enumerate six organism causing diarrhoea
- f) Procedure of Z-N Staining

Q2) Long answer question (any one out of two):

[1 x 15 = 15]

- a) Enumerate any four common parasite found in stool specimen.
Describe the life cycle and laboratory diagnosis of *Ascaris lumbricoides*.
Mention the various complications associated with *Ascaris* infection
- b) Describe in detail biomedical waste management

Section "B" (35 Marks)

Q3) Short answer question (any four out of five):

[4 x 5 = 20]

- a) National Immunization Schedule
- b) Types of Immunity
- c) PPE (Personal protective equipment)
- d) Name three 3 DNA and 3 RNA viruses
- e) VDRL test

Q4) Long answer question (any one out of two):

[1 x 15 = 15]

- a) Enumerate different types of culture media with examples. Add a note on selective media
- b) Modes of transmission of HIV infection. Write laboratory test of HIV infection in brief. Write Nursing care of HIV patient

