

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

Total Duration : Section A + B = 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) Explain Structure of stomach.
 - b) Describe Gross anatomy of the eye.
 - c) Discuss functions of Lungs.
 - d) Explain Popliteal Fossa.
 - e) Discuss Mechanical support of the uterus.
 - f) Explain Conduction system of heart.
 - g) Describe Mitochondria.

2. Long Answer Questions (any one out of two) :

- a) Describe hip joint under following heads:
- 1) Articular surfaces
 - 2) Ligaments
 - 3) Movements and muscles producing movement.
- b) Describe pancreas under following heads:
- 1) Relations
 - 2) Blood and Nerve supply
 - 3) Applied anatomy.

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

3. Short Answer Questions (any four out of five) :

[4×5=20]

- a) Discuss Cardiac cycle.
- b) Enumerate the Mechanism of urine formation.
- c) – Explain Physiology of muscle contraction.
- d) Describe Functions of pancreas.
- e) Discuss Urea cycle.

4. Long Answer Question :

[1×13=13]

- a) Enumerate functions of pituitary gland. Describe suprarenal glands. [6]
- b) Explain pulmonary ventilation and its mechanism. [7]

OR

Long Answer Question :

- c) Explain mechanism of regulation of body temperature. [6]
- d) Enumerate functions of neurons. Explain circulation of cerebrospinal fluid. (CSF). [7]



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

Total Duration : 3 Hours

Total Marks : 75

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SECTION - A (45 Marks)
(Nutrition)

1. **Short Answer Questions (Solve any 5 out of 6) :** **[5×5=25]**
 - a) Factors inhibiting and enhancing the Calcium absorption.
 - b) Distinguish between Food Adulteration and Food Additives.
 - c) Functions of Carbohydrate.
 - d) Nurses role in Mid Day meal Program.
 - e) Role of Nutrition in maintaining health of a preschooler.
 - f) Methods of cooking.

2. **Long Answer Questions (Solve any 2 out of 3) :** **[2×5=10]**
 - a) Classification of proteins and sources of protein.
 - b) Sources and deficiency diseases of Vitamin D.
 - c) Plan a diet for a girl aged 17 years, weighing 35 kg and suffering with anemia.

3. Short Answer Questions (Solve any 2 out of 3) :**[2×5=10]**

- a) Composition of Body Fluids.
- b) Soft Diet.
- c) Body Mass Index and Caloric requirement.

SECTION - B (30 Marks)**(Biochemistry)****4. Short Answer Questions (Solve any 4 out of 5) :****[4×5=20]**

- a) Write note on Lipoprotein and their functions.
- b) Explain Classification of carbohydrates.
- c) Difference between Prokaryotes and Eukaryotes.
- d) Describe Urea cycle.
- e) Mechanism of antibody production.

5. Long Answer Questions (Solve any 1 out of 2) :**[1×10=10]**

- a) Describe structure and classification of Immunoglobins.

OR

- b) Explain metabolism of fatty acids.



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NURSING FOUNDATION

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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) Health Illness continuum
 - b) Safety devices
 - c) Composition and characteristics of urine
 - d) Purposes of Recording and Reporting
 - e) Maslow's needs of Hierarchy
 - f) Stages of fever

2. **Long Answer Questions (any one out of two) :** **[1×15=15]**
 - a) Define the nursing process. Explain the parts of the nursing care plan. Write a nursing care plan for a patient with angina with two priority nursing diagnosis.
 - b) Define Communication. Explain the communication process. Describe the barriers in communication.

SECTION - B (35 Marks)

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

- a) Factors affecting sleep
- b) Describe grieving process
- c) Standard safety precautions
- d) Principles of bandaging
- e) Principles of body mechanics

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

- a) What is a theory? Explain the theory given by Betty Neumann with example.
- b) Define blood pressure. Explain the factors affecting blood pressure. Explain the nursing care of a patient with high blood pressure.



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PSYCHOLOGY

Total Duration : Section A+B=3 Hours

Total Marks : 75

SECTION-A & SECTION-B

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SECTION - A (40 Marks)

1. Short Answer Questions (any five out of six) [5×5=25]
 - a) What is the difference between the conscious, unconscious and pre-conscious?
 - b) What are sensations? Why is it important for nurses to understand sensory processes?
 - c) Explain the principles of Heredity.
 - d) Explain the classification of conflicts.
 - e) What is emotional adjustment?
 - f) Explain the perception of motion.

2. Long Answer Questions (any one out of two) [1×15=15]
 - a)
 - i) Explain the concepts related to Motivation. [3]
 - ii) What is the Motivational Cycle? [5]
 - iii) Explain any two theories of Motivation. [7]
 - b) What are ego defense mechanisms? Explain them with example.

SECTION - B (35 Marks)

- 3. Short answer questions (any four out of five):** **[4×5=20]**
- a) How should Nurses care for the elderly patients?
 - b) How will knowledge of the Nervous system help a nurse?
 - c) Define Psychology. Why is it a science?
 - d) Explain with examples the relevance of counseling in nursing.
 - e) What are the goals of Neuropsychological Testing?
- 4. Long answer questions (any one out of two):** **[1×15=15]**
- a) i) What are the skills and characteristics required for a good Counselor?[7]
ii) Explain the steps in counseling. **[8]**
 - b) Explain the different methods of Psychological assessment.

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

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 Questions (Solve any 5 out of 6) :** **[5×5=25]**
 - a) Classification of Bacteria with diagrams and examples.
 - b) Pathogenicity of Staphylococcus aureus.
 - c) Precipitation reaction.
 - d) VDRL Test.
 - e) Contributions of Robert Koch in Microbiology.
 - f) Bacterial Growth Curve.

2. **Long Answer Questions (Solve any 1 out of 2) :** **[1×15=15]**
 - a) Enlist organisms causing respiratory tract infection. Write in detail about pathogenesis and laboratory diagnosis of Tuberculosis.
 - b) Define Sterilization and Disinfection. Classify methods of Sterilization. Write a short note on Autoclave.

SECTION - B (35 Marks)

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

- a) Write down the principles and application of agglutination reaction.
- b) Anaerobic culture methods.
- c) Importance of Microbiology for nurses.
- d) Mention different modes of transmission of infection.
- e) Collection of Blood for Culture.

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

- a) Explain physical/environmental factors affecting bacterial growth. Describe in detail the effect of temperature and moisture on growth of Bacteria.
- b) Write down pathogenesis and laboratory diagnosis of enteric fever.

