

**First Basic B.Sc. Nursing Examination, Winter  
(Phase - III All other remaining UG/PG Course) - 2019  
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.
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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 answer book for all sections.

**SECTION - "A" (42 Marks)**

**(Anatomy)**

1. Short answer question (any six out of seven) : [6 × 5 = 30]
- a) Cubital fossa.
  - b) Morphological classification of bones.
  - c) Functions of cerebellum.
  - d) Supports of Uterus.
  - e) Sternocleidomastoid muscle.
  - f) Bare areas of liver.
  - g) Adductor canal.

2. Long answer question (**any one** out of two) : [1 × 12 = 12]
- a) Describe heart under following heads:
    - i) External features (3)
    - ii) Valves (3)
    - iii) Blood supply (3)
    - iv) Applied Anatomy (3)
  - b) Describe kidneys under following heads:
    - i) Morphology and Coverings (4)
    - ii) Relations (3)
    - iii) Blood supply (3)
    - iv) Applied Anatomy (2)

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

3. Short answer question (**any four** out of five) : [4 × 5 = 20]
- a) Explain Lung Volumes and Capacities with the help of a neat labelled diagram.
  - b) Define Glomerular Filtration Rate and write the factors affecting GFR.
  - c) Functions of Blood.
  - d) Actions of Insulin. Add a note on Diabetes Mellitus.
  - e) Physiology of Hearing.
4. Long answer question : [1 × 13 = 13]
- a) Describe the phases of Menstrual Cycle.
  - b) Write in brief the hormonal regulation of Menstrual Cycle. Add a note on Ovulation.

OR

- Long answer question : [1 × 13 = 13]
- c) Define Arterial Blood Pressure, Systolic BP and Diastolic BP. Write a note on Physiological variations in Blood Pressure.
  - d) Enumerate the Mechanisms of Blood Pressure Regulation. Describe in detail the short term regulation of Blood Pressure



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NUTRITION AND BIOCHEMISTRY**

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**SECTION - "A" (45 Marks)**

**(Nutrition)**

1. Short answer questions (any five out of six) : [5 × 5 = 25]
- a) Functions of food.
  - b) Vitamin A deficiency programme.
  - c) Assessment of nutritional status of pre-schooler.
  - d) Factors influencing food selection.
  - e) Principles of cooking.
  - f) Prevention of food adulteration Act (PFA).

2. Long answer questions (any two out of three) : [2 × 5 = 10]
- a) Deficiencies of vitamin D and its Dietary sources.
  - b) Dietary sources and Functions of carbohydrates.
  - c) Factors affecting basal metabolic rate.
3. Short answer questions (any two out of three) : [2 × 5 = 10]
- a) National iodine deficiency disorders (IDD).
  - b) Nutrition education and role of nurse in adolescent Anemia.
  - c) Maintenance of fluid and electrolyte balance for toddler with Diarrhea.

**SECTION - "B" (30 Marks)**  
**(Biochemistry)**

4. Short answer questions (any four out of five) : [4 × 5 = 20]
- a) Transamination reactions.
  - b) Functions and Deficiency manifestations of Vitamin C.
  - c) Structure and Functions of Cell membrane.
  - d) Classification of Enzymes with suitable examples.
  - e) Functions and Deficiency manifestations of Iron.
5. Long answer questions (any one out of two): [1 × 10 = 10]
- a) Describe various steps of Glycolysis. Add a note on its Energetics.
  - b) Describe steps of Beta-oxidation of Fatty acids. Add a note on its energetics.



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NURSING FOUNDATION**

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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) Causes and risk factors of developing illness.
  - b) Qualities of a good nurse
  - c) Role and responsibilities of nurse in admission of patient to the hospital
  - d) Factors influencing communication with patient.
  - e) Methods of recording
  - f) Guidelines for taking vital signs.



2. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Mr Manohar is admitted to medical ward with left sided paralysis.
- i) List the causes of pressure sores. [3]
  - ii) How will you prevent pressure sore to Mr Manohar. [5]
  - iii) Write the scientific principles involved in backcare. [5]
  - iv) What are the different techniques used in back care. [2]
- b)) i) Write the purposes of local dry heat application. [3]
- ii) What preliminary assessment you will carry out before applying hot water bag to the patient. [3]
  - iii) Briefly outline the steps of the procedure of applying hot water bag. [5]
  - iv) Enlist the contraindications of hot application. [4]

**Section "B" (35 Marks)**

3. Short answer question (**any four** out of five) : [4 × 5 = 20]
- a) Nursing interventions to promote sleep.
  - b) Care of patients unit after discharge.
  - c) Principles of medical Asepsis.
  - d) Factors affecting body alignment and mobility.
  - e) Change of shift record.
4. Long answer question (**any one** out of two): [1 × 15 = 15]
- a) i) Enlist purposes of giving oral care. [5]
  - ii) What are complication of neglected oral care. [5]
  - iii) Write the scientific principle applied in oral care. [5]
  - b) i) Enlist the methods of drug administration. [5]
  - ii) Explain the rights of drug administration. [5]
  - iii) Write the Nurses responsibility in administration of oral medication. [5]



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Other Remaining UG/PG Course) - 2019  
PSYCHOLOGY**

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**SECTION - A & SECTION - B**

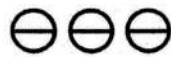
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**SECTION - "A" (40 Marks)**

1. Short answer question (any five out of six): [5 × 5 = 25]
  - a) Steps involved in scientific problem solving.
  - b) Guidance and counselling.
  - c) Write a note on Neurons.
  - d) Causes of Mental Retardation.
  - e) Factors affecting Attention and its impact on learning.
  - f) Emotions in Health and Illness.
  
2. Long answer question (any one out of two): [1 × 15 = 15]
  - a)
    - i) Define Psychology.
    - ii) Explain Observational methods.
    - iii) Explain how the study of Psychology is important for a student Nurse.
  - b)
    - i) Define Perception.
    - ii) Factors influencing perception.
    - iii) What is the relation between sensation and perception.

## SECTION "B" (35 Marks)

3. Short answer question (any four out of five): [4 × 5 = 20]
- Explain the role of endocrine glands on behaviour.
  - Describe different Defence-mechanisms used in stress.
  - Explain major Laws of Learning.
  - Mental Hygiene in Adolescence.
  - Describe the methods to improve memory with illustrations.
4. Long answer question (any one out of two): [1 × 15 = 15]
- List three biological factors that affect Personality Development.
    - Discuss the nature of Personality.
    - Describe the Freuds theory of Personality.
  - Define Motivation.
    - Explain Maslow's Hierarchy of needs with Diagram.
    - List the five sources of frustration with examples.





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**MICROBIOLOGY**

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

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

1. Short answer questions (any five out of six): [5 × 5 = 25]
  - a) Write a short note on Morphology of Bacteria
  - b) Write a short note on chemical methods of sterilization
  - c) Write a short note on bacterial growth curve.
  - d) Write a short note on sample collection for urine routine and culture.
  - e) Differentiate between Active and Passive immunity.
  - f) Write a short note on ELISA.
  
2. Long answer questions (any one out of two): [1 × 15 = 15]
  - a) Write a note on Bio-medical Waste Management.
  - b) Write a note on Hospital Infection Control Programme. Mention the role of Nurse in Hospital Infection Control.

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

3. Short answer questions (any four out of five): [4 × 5 = 20]
- a) Write a short note on source of hospital acquired infection.
  - b) Describe Laboratory diagnosis of Tuberculosis.
  - c) Write a note on culture media.
  - d) Write a note on Immunity.
  - e) Describe Koch's Postulates.
4. Long answer questions (any one out of two): [1 × 15 = 15]
- a) Write a note on Growth requirements of bacteria. Describe the effect of Temperature and Moisture on growth of bacteria.
  - b) Describe the steps of Laboratory diagnosis of salmonella typhi.

