

**First BASIC B.Sc. Nursing Examination, Summer
(Phase - III All other Remaining UG/PG Courses) - 2020
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 answer book for all sections.

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

1. Short answer question (**any Six** out of Seven) **[6 × 5 = 30]**
 - a) Axillary lymph nodes.
 - b) Supports of uterus
 - c) Classification of synovial joint with example of each type.
 - d) Papillae of tongue.
 - e) Muscles of gluteal region.
 - f) Sternocleidomastoid muscle.
 - g) Differentiate between small and large intestine.

2. Long answer question (any one out of two): **[1 × 12 = 12]**
 - a) Describe kidney under the following headings,
 - i) Location and gross structure, ii) Coverings,
 - iii) Relations, iv) Blood supply,
 - v) Applied anatomy

- b) Describe the hip joint under the following headings,
- i) Type of joint,
 - ii) Articular surfaces,
 - iii) Ligaments,
 - iv) Relations,
 - v) Movements and muscles producing them,
 - vi) Applied anatomy.

SECTION - B (33 Marks)

(PHYSIOLOGY)

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

- a) Write the composition and functions of saliva.
- b) What is surfactant? Describe in brief its functions.
- c) Write a note on functions of skin.
- d) Explain the Rh blood group system. Add a note on Erythroblastosis foetalis.
- e) Write in brief about the conducting system of heart.

4. Long answer question : [1 × 13 = 13]

- a) Define and classify reflexes. [6]
- b) Describe the reflex arc with the help of a neat labelled diagram. Give two examples of reflex action. [7]

OR

Long answer question :

- c) Describe the various phases of menstrual cycle. [6]
- d) Discuss the hormonal control of menstrual cycle. [7]



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NUTRITION AND BIOCHEMISTRY

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

1. Short answer questions (**any five** out of Six) **[5 × 5 = 25]**
 - a) Marasmus.
 - b) Methods of cooking.
 - c) Vitamin 'D' deficiency.
 - d) Enumerate Food groups.
 - e) Basal Metabolic Rate.
 - f) National Nutritional Policy.

2. Long answer questions (any two out of three): **[2 × 5 = 10]**
 - a) Mid-Day meal program.
 - b) Functions and absorption of calcium.
 - c) Describe nutritional problems in India.

3. Short answer questions (any two out of three): [2 × 5 = 10]
- a) Digestion of proteins.
 - b) Role of the nurse in nutritional programmes.
 - c) Write in short about the elements of nutrition.

SECTION - B (30 Marks)

(BIOCHEMISTRY)

4. Short answer questions (any four out of five): [4 × 5 = 20]
- a) Define and classify enzymes.
 - b) Lipoproteins and their functions.
 - c) Functions, sources and deficiency manifestations of vitamin 'C'
 - d) Digestion and absorption of fat.
 - e) Maintenance acid base balance.
5. Long answer questions (any one out of two): [1 × 10 = 10]
- a) Enumerate the pathway of glycolysis. Discuss its energetics. write a note on regulation of blood sugar.
 - b) Describe functional classification of proteins with examples. Discuss the biosynthesis of urea and its biological significance.



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NURSING FOUNDATION**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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SECTION - A (40Marks)

1. Short answer question (**any five** out of six): **[5 × 5 = 25]**
 - a) Basic Human needs.
 - b) Care of terminally ill patient.
 - c) Comfort devices.
 - d) Asepsis.
 - e) Elements of Communication.
 - f) Stages of Rigor.

2. Long answer question (**any one** out of two): **[1 × 15 = 15]**
 - a) Mr.Suresh 65 year old admitted in the Medical ward with complaint of left side hemiplegia since 3 months, Define Bed sore (2), Enlist the causes of Bed sore (5), Describe the prevention and nursing management of bed sores (8)

- b) Define Nursing process(3),Describe the characteristics of nursing process(5),write down the Steps in Nursing process(7)

SECTION - B (35 Marks)

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

- a) LAMA Discharge.
- b) Principles of Bandaging.
- c) Universal precautions.
- d) Rights of Medication administration.
- e) Importance of records and reports.

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

- a) Define Sterilization(2),List the Principles of surgical asepsis(5),Explain the methods of sterilization(8)
- b) Define Dyspnoea(3)List the Indication of Oxygen administration (5),Explain the role of Nurse in the administration of Oxygen.(7)



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PSYCHOLOGY**

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SECTION - A (40Marks)

1. Short answer question (**any five** out of six): [5 × 5 = 25]
 - a) Explain the decay theory of forgetting.
 - b) What is mind body relationship?
 - c) What is attention? What are the factors affecting attention?
 - d) Explain Maslow's theory of needs.
 - e) What are the characteristics of a mentally adjusted person?
 - f) What is short term memory? Explain in brief with example.

2. Long answer question (**any one** out of two): [1 × 15 = 15]
 - a) What is Perception? What are the errors in Perception? What are the laws of perceptual organization?
 - b) What is Intelligence? Explain any two theories of Intelligence.

SECTION - B (35 Marks)

3. Short answer question (any four out of five): [4 × 5 = 20]
- a) Explain the structure of a neuron with the help of a diagram.
 - b) What are the methods of memorizing? Explain in brief with examples.
 - c) What are the types of Intelligence tests?
 - d) Explain any one theory of emotion in detail.
 - e) Explain any two branches of Psychology.
4. Long answer question (any one out of two): [1 × 15 = 15]
- a) What is Personality? Explain any three theories of Personality.
 - b) What is learning? Explain Classical Conditioning and Instrumental Conditioning in detail.



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MICROBIOLOGY**

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Total Marks : 75

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SECTION - A (40Marks)

1. Short answer question (**any five** out of six): **[5 × 5 = 25]**
 - a) Write a note on candidiasis.
 - b) Management of Bio-medical waste.
 - c) Ziehl-Neelsen Staining and its modifications.
 - d) Write a note on bacterial cell wall.
 - e) Write contributions of Robert Koch.
 - f) Classify vaccines with examples and write differences between them.

2. Long answer question (**any one** out of two): **[1 × 15 = 15]**
 - a) Write morphology, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.
 - b) Write morphology, transmission, pathogenicity and laboratory diagnosis of Hepatitis B virus.

SECTION - B (35 Marks)

3. Short answer question (**any four** out of five): [4 × 5 = 20]
- a) Write a note on Hypersensitivity Type-I.
 - b) Write a note on blood culture.
 - c) Write role of nurses in infection control.
 - d) Write life cycle of *Ancylostoma duodenale*.
 - e) Define and classify Antibodies with reference to immunity.
4. Long answer question (**any one** out of two): [1 × 15 = 15]
- a) Define sterilization and Disinfection. Describe in detail about moist heat sterilization.
 - b) Write morphology, pathogenicity and laboratory diagnosis of *Treponema pallidum*.

