

QUESTION BOOKLET EXAMINATION, SUMMER - 2023 PHASE - III

Name of the Examination : \_\_\_\_\_

Subject : \_\_\_\_\_ Section : A

Question Booklet Version
<b>N-101</b>

Seat No.

Answer Sheet No.

This is to certify that the entries of Examination, Subject, Seat No. and Answer Sheet No. have been correctly filled and verified.

Candidate's Signature  
Date : \_\_\_\_\_

Invigilator's Signature  
Date : \_\_\_\_\_

**INSTRUCTIONS FOR CANDIDATES**

- 1) This question booklet contains objective type questions.
- 2) The question paper and OCR Answer Sheet shall be issued separately at the start of the examination.
- 3) Candidate should carefully read the instructions printed on the Question booklet and Answer Sheet and enter correct details of their **Seat No., Question booklet version No. etc.** on the Question paper and Answer Sheet. The candidate must sign on the Answer Sheet and question booklet after filling necessary details. The correctness of details entered by the students has to be cross checked by the invigilator and then only he should sign on the same.
- 4) During the time of examination :
  - a) Read each question carefully.
  - b) Choose the correct answer from the four available options given under each question.
  - c) Fill (Dark) the empty circle of your choice completely below the question number in the answer sheet with **Black ball point pen only**. An example is given below :

Q.No. 1 : The Taj Mahal is located at :

- (a) Agra
- (b) Delhi
- (c) Lucknow
- (d) Hyderabad

Correct	Wrong	Wrong	Wrong
●	⊗	⊙	⊙
○	○	○	○
○	○	○	○
○	○	○	○

In the above example, the correct answer is 'a' (Agra). The candidate should dark the circle as above corresponding to 'a' under Question No. 1 on the answer sheet. If cross/tick/dot marked instead of darkening the circle, it shall not be considered as valid method and marks will not be allotted.

**Note :** Double entry i.e. Darkening more than one circle or even putting dot on other vacant circle is not permitted and no marks will be given to such attempt.

- 5) **Important :** There is no **negative marking** for wrong answers. However, in case, if any candidate desires not to attempt answer to any MCQ, then it is mandatory to **strike out all options** ~~⊙ ⊙ ⊙ ⊙~~ in OMR sheet against respective MCQ serial number, failing which it shall be treated as an attempt for 'Unfair Means'. Any 'Blank Answer' in OMR sheet shall attract for action under 'Unfair Means'.

For eg. : If any candidate desires not to attempt MCQ No. 3, then the candidate shall strike out all options as explained | 3 | ~~⊙ ⊙ ⊙ ⊙~~

- 6) Rough work should be done only on the **blank space** provided on the question booklet. **Rough work should not be done on the Answer Sheet or anywhere on the Question Paper Except the space provided.** If written anything, such type of act will be considered as an attempt to resort to unfair means.
- 7) The Answer Sheet and the question booklet should be returned to the invigilator **immediately** after the prescribed MCQ paper examination time is over.
- 8) **No candidate is allowed to leave the examination hall till the examination session is over.**

First Semester B.Sc. Nursing Examination, Summer - 2023  
(Phase - III)

APPLIED ANATOMY & APPLIED PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Section A Marks : 13

SECTION - A (MCQ)

- Instructions :**
- 1) Fill (dark) the appropriate empty circle below the question number once only.
  - 2) Use **black ball point pen** only.
  - 3) **Each question carries one mark.**
  - 4) A student will not be allotted any marks if he/she overwrites, strikes out or puts white ink on the circle once filled (darkened).
  - 5) **Rough work should be done only on the blank space provided on the question booklet. Rough work should not be done on the Answer Sheet or anywhere on the Question Paper Except the space provided. If written anything, such type of act will be considered as an attempt to resort to unfair means.**

**1) Multiple Choice Questions :**

**[13 × 1 = 13]**

- 1) The mature cells of bone are called \_\_\_\_\_.
  - a) Fibroblasts
  - b) Osteoclasts
  - c) Osteoblasts
  - ~~d) Osteocytes~~
- 2) The important cells in epidermis are the \_\_\_\_\_.
  - a) Keratinocytes
  - b) Melanocytes
  - c) Langerhans
  - d) Dermal papillae
- 3) The region of a muscle fibre where a motor neuron connects to the muscle fibre is called the \_\_\_\_\_.
  - a) Synaptic vesicle
  - b) Motor endplate
  - c) H band
  - d) Grey matter

- 4) The nerve is involved in smiling and frowning is \_\_\_\_.
- a) Vagus
  - b) Trigeminal
  - c) Facial
  - d) Glossopharyngeal
- 5) CSF is absorbed into the venous blood via the \_\_\_\_.
- a) Cisterna magna
  - b) Choroid plexus
  - c) Falx cerebri
  - d) Arachnoid villi
- 6) An allergic reaction may increase the number of \_\_\_\_.
- a) Eosinophil
  - b) Neutrophil
  - c) Lymphocytes
  - d) Monocytes
- 7) Proteins are composed of \_\_\_\_ commonly occurring acids.
- a) 8
  - b) 12
  - c) 20
  - d) 24
- 8) Production of ATP occurs within \_\_\_\_.
- a) Smooth endoplasmic reticular
  - b) Golgi apparatus
  - c) Lysosomes
  - d) Mitochondria
- 9) Splitting of plasma membrane and cytoplasm into two is called \_\_\_\_.
- a) Mitosis
  - b) Meiosis
  - c) Anaphase
  - d) Cytokinesis

- 10) Nerve that contain mostly efferent fibers are called       .
- a) Sensory
  - b) Motor
  - c) Mixed
  - d) Schwann
- 11) Dynamic equilibrium depends on the functioning of the       .
- a) Organ of Corti
  - b) Crista ampullaris
  - c) Macula
  - d) Tectorial membrane
- 12) All the steroid hormones are derived from       .
- a) Amino acid
  - b) Peptide
  - c) Cholesterol
  - d) Protein
- 13) The normal adrenal cortex secretes small amounts of       .
- a) Epinephrine
  - b) Androgens
  - c) Antidiuretic hormone
  - d) Human chorionic gonadotropin

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**SPACE FOR ROUGH WORK**

First Semester B.Sc. Nursing Examination, Summer - 2023  
(Phase - III)

APPLIED ANATOMY & APPLIED PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Section B Marks : 62

SECTION - B

- 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 section B.

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

- a) Describe the Thyroid gland under the following headings.
  - i) Relations
  - ii) Blood supply
  - iii) Applied Anatomy
- b) Draw a labeled diagram of heart and explain the following :
  - i) Position
  - ii) Structure
  - iii) Blood supply of heart

3) Short Answer Question (Solve any 3 Out of 4) : [3 × 5 = 15]

- a) Define Reflex arch, the components and mechanism of stretch reflex.
- b) Classify synovial joints and give examples.
- c) Explain anatomy of Liver with a labeled diagram.
- d) Explain types, characteristics and functions of Muscle tissue.

4) Short Answer Questions (Solve any 3 Out of 4) : [3 × 2 = 6]

- a) Define Broca's area and Wernicke's areas.
- b) Identify the parts of Lymphatic system.
- c) Name the mesenteries and their functions.
- d) List the types of T-lymphocytes.

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

- a) Define and label the deflection waves of normal electrocardiogram (ECG). Explain the physiology of Cardiac muscle contraction.
- b) Define Menstrual cycle. Explain the phases of menstrual cycle and list the signs of Ovulation.

6) Short Answer Question (Solve any 3 Out of 4) : [3 × 5 = 15]

- a) Draw and describe Neuromuscular junction and synapse.
- b) Describe Physiology of hearing.
- c) Spermatogenesis.
- d) Explain the composition and function pancreatic juice.

7) Short Answer Questions (Solve any 3 Out of 4) : [3 × 2 = 6]

- a) Nerve supply to the Tongue.
- b) Write a note on Semilunar valves of the heart.
- c) Identify the movements of the thumb.
- d) Define Action potential and Resting membrane potential.

