

First Basic B.Sc. Nursing (Old) Examination, Winter - 2022
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

- 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 answerbook for **all** sections.

SECTION - A (42 Marks)

(Anatomy)

1. Short answer question (**any six** out of seven) : **[6×5=30]**
- a) Mitochondria
 - b) Lumbar puncture
 - c) Mechanism of Respiration.
 - d) Popliteal Fossa.
 - e) Deltoid muscle.
 - f) Porta Hepatis.
 - g) Enumerate the branches of External Carotid Artery

2. Long answer question (**any one** out of two) : **[1×12=12]**
- a) Describe Stomach under following heads:
 - i) Gross Anatomy and Relations
 - ii) Blood Supply
 - iii) Applied Anatomy
 - b) Describe Shoulder joint under following heads :
 - i) Type and Articular surface
 - ii) Ligaments
 - iii) Movements and Muscles producing movements
 - iv) Applied Anatomy

SECTION - B (33 Marks)
(Physiology)

3. Short answer question (**any four** out of five) : **[4×5=20]**
- a) Enumerate different components of blood. What are functions of white blood corpuscles?
 - b) Draw well labelled diagram of nephron. Enumerate functions of kidney.
 - c) Enumerate different hormones secreted by anterior pituitary. Write clinical features of hypothyroidism.
 - d) Write about different phases of menstrual cycle and their hormonal regulation
 - e) Draw a diagram of reflex arc. Enumerate the different types of reflexes.
4. Long answer question : **[1×13=13]**
- a) Define cardiac output. Enumerate factors affecting cardiac output. **[6]**
 - b) Describe structure, synthesis and varieties of haemoglobin. Enumerate different methods of estimation of haemoglobin. **[7]**

OR

- Long answer question : **[1×13=13]**
- c) Describe the different mechanism which bring the body temperature back to normal when body is too hot. Write down functions of skin. **[6]**
 - d) Write composition and functions of saliva. Name the various phases of salivary secretion. **[7]**

