



62501

First Basic B.Sc. Nursing Examination, Winter 2018
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and 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 answerbook for all Sections.**

SECTION – A (42 Marks)

1. Short answer question (**any six** out of seven) : (6×5=30)
 - a) Blood supply of long bone.
 - b) Sternocleidomastoid muscle.
 - c) Boundaries and contents of Popliteal fossa.
 - d) Bronchopulmonary segments.
 - e) Porta hepatis.
 - f) Structure of uterus.
 - g) Stomach bed.

2. Long answer question (**any one** out of two) : (1×12=12)
 - a) Describe shoulder joint under following heads :
 - i) Type and Articular surfaces. 3
 - ii) Ligaments. 3
 - iii) Movements and muscles producing movements. 3
 - iv) Applied Anatomy. 3
 - b) Describe the parotid gland under the following heads :
 - i) Gross structure and relations. 4
 - ii) Blood supply. 3
 - iii) Nerve supply. 3
 - iv) Applied Anatomy. 2

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SECTION – B (33 Marks)

3. Short answer question (any four out of five) : (4×5=20)
- a) Write a note on structure and functions of Neuron. Draw a neat labelled diagram of Neuron.
 - b) Note on Glomerular filtration rate.
 - c) Note on Rh blood grouping.
 - d) Give Functions of Placenta.
 - e) Note on Sarcomere.

4. Long answer question : (1×13=13)
- a) Describe composition and functions of blood. Add a note on Anaemia. 6
 - b) Enumerate functions of gastric juice. Describe phases of gastric secretion. 7

OR

- Long answer question : (1×13=13)
- c) Write a note on conduction system of heart. Explain with the help of a neat diagram. 6
 - d) What is Blood Pressure ? Enumerate the factors affecting blood pressure. Add a note on Baroreceptor mechanism of blood pressure regulation. 7



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SECTION – A (42 Marks)

(Anatomy)

1. Short answer question (**any six** out of seven) : (6×5=30)
 - a) Secondary cartilaginous joint.
 - b) Stomach bed.
 - c) Popliteal fossa.
 - d) Bronchopulmonary segments.
 - e) Supports of uterus.
 - f) Sternocleidomastoid muscle.
 - g) Muscles of mastication.
2. Long answer question (**any one** out of two) : (1×12=12)
 - a) Describe shoulder joint under the following headings :
 - i) Type and articular surfaces (2)
 - ii) Ligaments (3)
 - iii) Movements and muscles producing movements (4)
 - iv) Applied anatomy (3)



- b) Describe parotid gland under the following headings :
- i) Gross structure and relations (3)
 - ii) Blood supply (3)
 - iii) Nerve supply (3)
 - iv) Applied Anatomy (3)

SECTION – B (33 Marks)

(Physiology)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Functions of Bile.
 - b) Mechanisms of Blood Pressure regulation.
 - c) Spermatogenesis.
 - d) Functions of Skin.
 - e) Define Diabetes Mellitus and explain Physiological actions of Insulin Hormone.

4. Long answer question. (1×13=13)
- a) Describe the process of Blood Coagulation. Write a note on bleeding time and clotting time. 6
 - b) Describe the Neural regulation of Respiration. 7

OR

Long answer question :

- c) Define GFR. What are the factors regulating GFR ? 6
- d) Define and classify immunity. Write a note on role of B Lymphocytes in immunity. 7

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SECTION – "A" (42 Marks)

(Anatomy)

1. Short answer question (**any six** out of seven) : **(6x5=30)**
 - a) Endoplasmic reticulum. 1
 - b) Biceps brachii muscle. 1
 - c) Popliteal fossa.
 - d) Define mediastinum. Mention its division and enumerate contents of superior mediastinum. 3
 - e) Draw neat labelled diagram of posterior relations of right kidney. 3
 - f) Structure and functions of skin. 2
 - g) Fibromuscular or mechanical supports of the uterus. 3

2. Long answer question (**any one** out of two) : **(1x12=12)**
 - a) Describe pancreas under following heads :
 - i) Relations **(7)**
 - ii) Blood supply **(3)**
 - iii) Applied anatomy. **(2)**

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b) Describe bones under following heads:

- | | | |
|-----------------------|---|-----|
| i) Classification | 6 | (7) |
| ii) Blood supply | 2 | (3) |
| iii) Applied anatomy. | 1 | (2) |

SECTION – "B" (33 Marks)

(Physiology)

3. Short answer question (any four out of five) : (4x5=20)

- ~~a) Role of Skin in Temperature regulation. 2~~
 b) Composition and Functions of Saliva. 3
 c) Ovulation.
 d) Functions of cerebellum.
~~e) Functions of Stomach. 3~~

4. Long answer question : (1x13=13)

- a) Define Haemostasis and write the functions of Platelets. 6
 b) Enumerate the steps in Haemostasis. Describe the intrinsic pathway of Haemostasis. 7

OR

Long answer question : (1x13=13)

- c) Define GFR. Explain the factors affecting GFR. 3 6
 d) Explain briefly the counter current multiplier mechanism of Kidney. 3 7

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Anatomy and Physiology

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Section "A" (42 Marks)
Anatomy

1. Short answer question (**any six** out of seven) : (6x5=30)

- a) Classification of synovial joints with one example - 2
- b) Interior of right atrium - 2
- c) Relations of urinary bladder
- d) Sternocleidomastoid muscle - 2
- e) Blood supply and lymphatic drainage of mammary gland - 1
- f) Bronchopulmonary segments - 1
- g) Structure and function of skin.

2. Long answer question (**any one** out of two) : (1x12=12)

- a) Describe the thyroid gland under the following headings:
 - (i) Morphology & situation, (ii) Relations, (iii) Blood supply, (iv) Clinical anatomy
- b) Describe the stomach under the following headings:
 - (i) Parts & gross anatomy, (ii) Visceral & peritoneal relations, (iii) Lymphatic drainage, (iv) Applied anatomy 12

Section "B" (33 Marks)
Physiology

3. Short answer question (**any four** out of five) : (4x5=20)

- a) Enumerate hormones secreted by anterior pituitary gland. Write a note on Acromegaly.
- b) Functions of Plasma proteins.
- c) Draw and describe Neuromuscular junction.
- d) Write a short note on ovulation.
- e) Define Reflex. Draw a neat labelled diagram of reflex arc.



4. Long answer question :

(1x13=13)

- a) Enumerate phases of Deglutition. Describe the second phase of deglutition.
- b) Describe lung volumes and capacities with the help of a neat labelled diagram.

6

7

OR

Long answer question :

(1x13=13)

- c) Classify White blood cells. Write the characteristics and functions of each type.
- d) Define Cardiac Output. Explain the factors regulating cardiac output.

6

7