

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

P.T.O.



SECTION – B (33 Marks)

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

- Write a note on structure and functions of Neuron. Draw a neat labelled diagram of Neuron.
- Note on Glomerular filtration rate.
- Note on Rh blood grouping.
- Give Functions of Placenta.
- Note on Sarcomere.

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

- Describe composition and functions of blood. Add a note on Anaemia. 6
- Enumerate functions of gastric juice. Describe phases of gastric secretion. 7

OR

Long answer question : (1x13=13)

- Write a note on conduction system of heart. Explain with the help of a neat diagram. 6
- 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 & SECTION – B

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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full** marks.
 - 5) Draw diagrams **wherever** necessary.
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 - 7) **Use** a common answerbook for **all** sections.

SECTION – A (42 Marks)

(Anatomy)

Stomach

1. Short answer question (**any six** out of seven) : (6×5=30)
 - a) Lymphatic drainage of mammary gland. ✓
 - b) Bronchopulmonary segments. ✓
 - c) Boundaries and contents of femoral triangle. ✓
 - d) Constituents of the spermatic cord. ✓
 - e) Relations of urinary bladder in male. ✓
 - f) Sternocleidomastoid muscle. ✓
 - g) Sulci and gyri on superolateral surface of cerebrum. ✓
2. Long answer question (**any one** out of two) : (1×12=12)
 - a) Describe synovial joint under following heads :
 - i) Definition ✓ 2
 - ii) Characteristics 2
 - iii) Classification with example ✓ 6
 - iv) Applied anatomy ✓ 2



- b) Describe the stomach under following heads:
- External features and relations 3
 - Blood supply 3
 - Lymphatic Drainage 3
 - Applied Anatomy 3

SECTION – B (33 Marks)

(Physiology)

3. Short answer question (any four out of five) : (4×5=20)
- Enumerate the properties of Skeletal muscle and describe any one in detail. 175
 - Compare and contrast between cortical and juxtaglomerular nephron.
 - Classify nerve fibers on the basis of conduction velocity and add a note on saltatory conduction.
 - Draw a well labelled diagram of ECG in lead II and give the normal values of all the intervals.
 - Describe the functions of hypothalamus.

4. Long answer question : (1×13=13)
- Define synapse, classify it and enumerate its properties. 6
 - Describe the mechanism of synaptic transmission. 7

OR

- Long answer question : (1×13=13)
- What is the physiological basis of Blood group? Name the various Blood groups 143 6
 - What are the hazards of Blood transfusion? 144 7

@Kuzone
22-11-2017

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First Basic B.Sc. Nursing Examination, Winter 2017
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SECTION – A & SECTION – B

- Instructions :**
- 1) Use **blue/black** ball point pen only.
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 - 3) **All** questions are **compulsory**.
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SECTION – A (42 Marks)

(Anatomy)

1. Short answer question (any six out of seven) : Parotid gland (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)

P.T.O.



- 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. ¹²⁷ 6
- b) Describe the Neural regulation of Respiration. ¹³³ 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. ¹⁰⁴ 7

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@kushonp

08-06-2017



62501

First Basic B.Sc. Nursing Examination, Summer 2017
ANATOMY AND PHYSIOLOGY

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SECTION - A

(Anatomy)

(42 Marks)

1. Short answer question (any six out of seven) : kidney (6×5=30)

- a) Boundaries and contents of axilla. ✓
- b) Interior of the right atrium. ✓
- c) Sartorius muscle. ✓
- d) Primary supports of uterus. ✓
- e) Differences between the small intestine and large intestine. ✓
- f) Nerve supply of tongue. ✓
- g) Morphological and functional divisions of cerebellum. ✓

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

- a) Describe rectus sheath under following heads : ✓
 - i) Definition and Features 3
 - ii) Formation 3
 - iii) Contents ✓ 3
 - iv) Function and Applied anatomy. ✓ 3

P.T.O.

62501



- b) Describe left kidney under following heads :
- i) Anterior relations 3
 - ii) Posterior relations 3
 - iii) Arterial supply 2
 - iv) Venous drainage 2
 - v) Applied anatomy 2

SECTION - B

(Physiology)

(33 Marks)

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

- ~~a) Rh incompatibility. 4~~
- ~~b) Puberty.~~
- c) Composition and Functions of Cerebrospinal Fluid (CSF).
- ~~d) Actions of Thyroid hormone. Add a note on Hyperthyroidism.~~
- ~~e) Explain the mechanism of muscle contraction.~~

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

- ~~a) Describe the structure, synthesis and functions of Haemoglobin. Add a note on Anaemia. 6~~
- b) Define Cardiac Output. Explain the factors regulating Cardiac Output. 7

OR

Long answer question : (1x13=13)

- ~~c) Describe the Composition and Functions of Pancreatic juice. 6~~
- d) Describe transport of Oxygen from lungs to the tissues. Draw a neat labelled diagram of Oxygen-Haemoglobin dissociation curve. 7

Cervical - 7 Thoracic - 12, Lumbar - 5
Sacral - 5, Coccyx - 4



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

SECTION - "A" (42 Marks)

(Anatomy)

1. Short answer question (any six out of seven) :

(6x5=30)

a) Endoplasmic reticulum.

b) Biceps brachii muscle.

c) Popliteal fossa.

d) Define mediastinum. Mention its division and enumerate contents of superior mediastinum.

e) Draw neat labelled diagram of posterior relations of right kidney.

f) Structure and functions of skin.

g) Fibromuscular or mechanical supports of the uterus.

2. Long answer question (any one out of two) :

(1x12=12)

a) Describe pancreas under following heads

i) Relations

ii) Blood supply

iii) Applied anatomy

(7)

(3)

62501



b) Describe bones under following heads ✓

i) Classification ✓

(7)

ii) Blood supply ✓

(3)

iii) Applied anatomy. ✓

(2)

SECTION – "B" (33 Marks)

(Physiology)

3. Short answer question (any four out of five) :

(4x5=20)

a) Role of Skin in Temperature regulation.

b) Composition and Functions of Saliva. ✓ 225

c) Ovulation.

d) Functions of cerebellum.

e) Functions of Stomach. ✓ 233

4. Long answer question :

(1x13=13)

a) Define Haemostasis and write the functions of Platelets. ✓ 125

6

b) Enumerate the steps in Haemostasis. Describe the intrinsic pathway of Haemostasis. ✓ 125

7

OR

Long answer question :

(1x13=13)

c) Define GFR. Explain the factors affecting GFR. ✓

6

d) Explain briefly the counter current multiplier mechanism of Kidney. ✓

7