



62501

First BASIC B.SC. NURSING, Winter 2014

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.
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- 7) Use a common answer book for all section.

Section "A" (42 Marks)

Anatomy

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

(6x5=30)

- a) Synovial joint
- b) Classification of bones according to shape with examples
- c) Sartorius muscle
- d) Boundaries and contents of axilla
- e) Stomach bed
- f) Relations of right kidney
- g) Muscles of mastication

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

(1x12=12)

- a) Write in detail blood supply of heart
- b) Describe uterus under following heads i) Gross anatomy and Relations ii) Support iii) Applied Anatomy

Section "B" (33 Marks)

Physiology

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

(4x5=20)

- a) Write the functions of liver.
- b) Describe in brief the actions of growth hormone.
- c) Explain the transmission of an impulse across the Neuro-muscular junction.
- d) Write a note on functions of kidney.
- e) Describe the visual pathway with a neat labelled diagram.

62501

4. Long answer question :

- a) Draw a well labelled diagram of conducting system of human heart.
- b) Describe in detail various parts of conducting system with its applied importance.

OR

Long answer question :

- c) Describe in detail the gaseous exchange across the respiratory membrane.
 - d) Describe in brief the transport of O₂ in blood.
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XV

First Basic B.Sc. Nursing Examination, Summer 2014
ANATOMY AND PHYSIOLOGY

Duration : Section A + B + C = 3 Hours

Section B & C Marks : 60

SECTION - B & SECTION - C

- Instructions :**
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 - 7) Use a common answer book for **all** Sections.

SECTION - B

(30 Marks)

Anatomy

(3x5=15)

Answer the following (any three out of four) :

- a) Classification of bones
- b) Deltoid muscle
- c) Blood supply of stomach
- d) Name the chambers of heart and openings in the right atrium

Describe the mammary gland under the following headings :

(1x7=7)

- a) Morphology
- b) Lymphatic drainage
- c) Applied anatomy

3

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2

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62501

4. Describe the hip joint under the following headings :
- Type.
 - Articular surfaces.
 - Ligaments.
 - Movements & muscles producing them.

SECTION - C

Physiology

5. Answer the following (any three out of four) :

- Functions of white blood cells.
- Write a note on vital capacity.
- Functions of placenta.
- Role of skin in temperature regulation.

6. Describe different phases of cardiac cycle with a well labelled diagram.

7. Describe the composition and functions of gastric juice.

(1x)

2

3

(30 Marks)

(3x5=15)

(1x7=7)

(1x8=8)

Total Duration: Section A+B = 3 Hours

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- 7) Use a common answer book for **all** sections.

Section "A" (42 Marks)
Anatomy

(6x5=30)

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

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

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.

62501



4. Long answer question :

- 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.

(1x13=13)

6

7

OR

Long answer question :

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

(1x13=13)

6

7

First Basic B.Sc. Nursing Examination, Summer 2015
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION - A & SECTION - B

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SECTION - A (42 Marks)

Anatomy

Short answer question (any six out of seven) :

(6×5=30)

- a) Mitochondria.
- b) Deltoid muscle.
- c) Femoral Triangle.
- d) Define Mediastinum. Mention its division and enumerate the contents of middle mediastinum.
- e) Draw neat labelled diagram showing anterior relations of left kidney.
- f) Describe nerve supply of tongue.
- g) Describe blood supply of thyroid gland.

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(1x12=12)

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2. Long answer question (any one out of two) :
- a) Describe stomach under the following heads : (3)
 - a) Gross structure and relations (3)
 - b) Blood supply (3)
 - c) Lymphatic drainage (3)
 - d) Applied Anatomy (3)
 - b) Describe synovial joint under following heads : (3)
 - a) Structure (3)
 - b) Classification (3)
 - c) Mechanism of lubrication (3)
 - d) Applied Anatomy (3)

SECTION - B (33 Marks)

Physiology

(4x5=20)

3. Short answer questions (any four out of five)
- a) Functions of Testosterone.
 - b) Enumerate the different blood group system. Importance of determination of blood groups.
 - c) Different mechanism for regulating body temperature.
 - d) Functions of thyroid hormones. Add a note on hypothyroidism.
 - e) Cerebrospinal fluid.

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

- a) Define and describe the process of blood coagulation. 6
- b) Composition and functions of gastric juice. Write briefly about phases of gastric secretion. 7

OR

Long answer question : (1x13=13)

- c) Describe the process of Oxygen transport from lungs to tissues. 6
- d) Define and draw a diagram of cardiac cycle. Describe the ventricular events in cardiac cycle. 7



First Basic B.Sc. Nursing Examination, Winter 2016
ANATOMY AND PHYSIOLOGY

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Total Marks : 75

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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)

(2)

P.T.O.

62501

b) Describe bones under following heads:

- i) Classification
- ii) Blood supply
- iii) Applied anatomy.

(7)
(3)
(2)

SECTION – "B" (33 Marks)

(Physiology)

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

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

(4x5=20)

4. Long answer question :

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

(1x13=13)

6

OR

Long answer question :

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

(1x13=13)

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62501

First Basic B.Sc. Nursing Examination, Summer 2016
ANATOMY AND PHYSIOLOGY

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SECTION – A & SECTION – B

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SECTION – A
(Anatomy)

(42 Marks)

1. Short answer question (**any six** out of seven) : (6×5=30)
 - a) Classification of bones according to shape and write it's functions
 - b) Blood supply of heart
 - c) Relations and ligaments of spleen
 - d) Nerve supply of tongue
 - e) Enumerate formation and branches of brachial plexus
 - f) Structures under cover of gluteus maximus muscle
 - g) Functional areas on superolateral surface of brain.

2. Long answer question (**any one** out of two) : (1×12=12)
 - a) Describe the uterus under the following heads :
 - i) size, shape, normal position and angulation
 - ii) parts of uterus
 - iii) supports of uterus
 - iv) Applied anatomy.

P.T.O.

62501



- b) Describe the left lung under the following heads :
- i) features
 - ii) root
 - iii) mediastinal surface
 - iv) Applied anatomy.

**SECTION – B
(Physiology)**

(33 Marks)

(4×5=20)

3. Short answer question (**any four out of five**) :
- a) Write a note on sarcomere
 - b) Composition and functions of saliva
 - c) Conducting system of heart
 - d) Mechanisms for body temperature regulation
 - e) Write a note on diabetes mellitus.

(1×13=13)

4. Long answer question :
- a) Define and classify Anaemia.
 - b) Describe process of urine formation.

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OR

(1×13=13)

- Long answer question :
- c) Enumerate functions of lungs. Add a note on Oxygen-Haemoglobin dissociation curve.
 - d) Define Menstrual cycle. Write briefly about phases of menstrual cycle.

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62501

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

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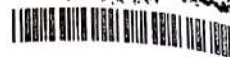
SECTION – A (42 Marks)

(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)

P.T.O.

62501



- 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

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) : (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
- ii) Posterior relations
- iii) Arterial supply
- iv) Venous drainage
- v) Applied anatomy.

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SECTION – B

(Physiology)

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

- a) Rh incompatibility.
- 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.

(33 Marks)

(4×5=20)

4. Long answer question :

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

(1×13=13)

6
7

OR

Long answer question :

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

(1×13=13)

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62501

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

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SECTION – A and SECTION – B

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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.

62501

SECTION – B (33 Marks)

(4×5=20)

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

- 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 :

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

(1×13=13)

OR

Long answer question :

- Write a note on conduction system of heart. Explain with the help of a neat diagram.
- What is Blood Pressure ? Enumerate the factors affecting blood pressure. Add a note on Baroreceptor mechanism of blood pressure regulation.

(1×13=13)

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

Total Marks : 75

Total Duration : Section A + B = 3 Hours

SECTION – A & SECTION – B

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 - 7) Use a common answerbook for all sections.

SECTION – A (42 Marks)

(Anatomy)

(6x5=30)

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

(1x12=12)

2. Long answer question (any one out of two) :
 - a) Describe synovial joint under following heads :
 - i) Definition
 - ii) Characteristics
 - iii) Classification with example
 - iv) Applied anatomy

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P.T.O.

62501

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

SECTION – B (33 Marks)

(Physiology)

3. Short answer question (any four out of five) : (4×5=20)
- a) Enumerate the properties of Skeletal muscle and describe any one in detail.
 - b) Compare and contrast between cortical and juxtaglomerular nephron.
 - c) Classify nerve fibers on the basis of conduction velocity and add a note on saltatory conduction.
 - d) Draw a well labelled diagram of ECG in lead II and give the normal values of all the intervals.
 - e) Describe the functions of hypothalamus.
4. Long answer question : (1×13=13)
- a) Define synapse, classify it and enumerate its properties.
 - b) Describe the mechanism of synaptic transmission.
- OR
- Long answer question : (1×13=13)
- c) What is the physiological basis of Blood group ? Name the various Blood groups
 - d) What are the hazards of Blood transfusion ?