

First Basic B.Sc. Nursing Examination, Summer 2013
ANATOMY AND PHYSIOLOGY

Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

Instructions:

- 1) All questions are **compulsory**.
- 2) The number to the right indicates **full marks**.
- 3) **Draw diagrams wherever necessary**.
- 4) Do not write anything on the **blank portion of the question paper**.
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SECTION – B

(Anatomy)

Answer the following (any **three** out of four) :

(3x5=15)

i) Supports of uterus *Ans: Shababz*

ii) Muscles of Gluteal region

iii) T.S of spinal cord *Ans: 2 5 8*iv) Structure of Ear. *Ans: 3 7 8*

Describe the hip joint under the following headings :

Ans: Reshma 11

(1x7=7)

i) Articular surfaces *Ans: 1*ii) Ligaments *Ans: 3*iii) Movements and muscles causing them. *Ans: 3*

Describe heart under the following headings:

(1x8=8)

i) Structure of heart *Ans: 3*ii) Conduction system of heart *Ans: 3*iii) Blood supply. *Ans: 2*

P.T.O.

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SECTION - C
(Physiology)

(3×5=15)

5. Answer the following any three out of four :

- a) Digestion of carbohydrate
- b) Menstrual cycle
- c) Pulmonary circulation
- d) Rh incompatibility.

6. Explain the mechanism of Respiration and the chemical control of respiration. (1×7=7)

7. Enumerate the factors involved in blood coagulation and describe the mechanism of clotting. (1×8=8)

(4)

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First Basic B.Sc. Nursing Examination, Winter 2013

ANATOMY AND PHYSIOLOGY

Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

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SECTION – B

(30 Marks)

Anatomy

Answer the following (any three out of four) : (3x5=15)

- 1) Describe Pituitary gland. 342
- 2) Describe right atrium of the heart. 144
- 3) Describe testis (male gonad). 299
- 4) Classification of epithelial tissue with example of each. 24

Describe right lung under following heading. (a) Borders and surfaces (b) Functions (c) Clinical anatomy. (1x7=7)

Classification of joints with example. (1x8=8)

SECTION – C

(30 Marks)

Physiology

Answer the following (any three out of four) : (3x5=15)

1) Systemic circulation of blood 162

2) Factors influencing metabolic rate

3) Functions of liver 310

4) Digestion of food in small intestine

Regulation of blood pressure. (1x7=7)

Phases of Menstrual cycle. (1x8=8)

Bile

S-2019
W-2019



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

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Section B & C Marks : 60

SECTION – B & SECTION – C

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3) All questions are **compulsory.**

4) The number to the right indicates **full marks.**

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entire syllabus within the stipulated frame. The Question paper pattern
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syllabus into any question paper. Students cannot claim that the
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distribution has been done.

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

SECTION – B

(30 Marks)

Anatomy

2. Answer the following (any three out of four) : (3x5=15)

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

3. Describe the mammary gland under the following headings : (1x7=7)

- a) Morphology 3
- b) Lymphatic drainage 2
- c) Applied anatomy 2

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4. Describe the hip joint under the following headings : $(1 \times 8 = 8)$

- a) Type. 1
- b) Articular surfaces. 2
- c) Ligaments. 2
- d) Movements & muscles producing them. 3

SECTION – C

(30 Marks)

Physiology

5. Answer the following (any three out of four) : $(3 \times 5 = 15)$

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

6. Describe different phases of cardiac cycle with a well labelled diagram. $(1 \times 7 = 7)$

7. Describe the composition and functions of gastric juice. $(1 \times 8 = 8)$

First BASIC B.S.C. NURSING, Winter 2014

Anatomy and Physiology

Duration: Section A+B = 3 Hours

Total Marks :75

Instructions:

- (3) 1) Use blue/black ball point pen only.
- (3) 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) 3) All questions are **compulsory**.
- (3) 4) The number to the right indicates full marks.
- (3) 5) Draw diagrams wherever necessary.
- (3) 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.
- (3) 7) Use a common answer book for all section.

Section "A" (42 Marks)

Anatomy

Short answer question (any six out of seven) :

(6x5=30)

Blood Synovial joint 18

Classification of bones according to shape with examples

Gartorius muscle

Boundaries and contents of axilla

Stomach bed

Relations of right kidney 271

1x13=13 Muscles of mastication

Short answer question (any one out of two) :

(1x12=12)

Write in detail blood supply of heart 189 Gross will

Describe uterus under following heads(i) Gross anatomy and Relations(ii)Support(iii)Applied Anatomy

1x13=13

Section "B" (33 Marks)

Physiology

Short answer question (any four out of five) :

(4x5=20)

Write the functions of liver.

Describe in brief the actions of growth hormone.

Explain the transmission of an impulse across the Neuro-muscular junction.

Write a note on functions of kidney.

Describe the visual pathway with a neat labelled diagram.

P.T.O.

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. *255*
d) Describe in brief the transport of O₂ in blood.

External respiration



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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- 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 Sections.**

SECTION – A (42 Marks)

Anatomy

1. Short answer question (**any six out of seven**) : **(6x5=30)**
 - Mitochondria.
 - Deltoid muscle.
 - Femoral Triangle.
 - Define Mediastinum. Mention its division and enumerate the contents of middle mediastinum.
 - Draw neat labelled diagram showing anterior relations of left kidney.
 - Describe nerve supply of tongue.
 - Describe blood supply of thyroid gland.



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

- Describe stomach under the following heads :
 - Gross structure and relations (3)
 - Blood supply (3)
 - Lymphatic drainage (3)
 - Applied Anatomy (3)
- Describe synovial joint under following heads :
 - Structure (3)
 - Classification (3)
 - Mechanism of lubrication (3)
 - Applied Anatomy (3)

SECTION – B (33 Marks)

Physiology

3. Short answer questions (any four out of five) : (4×5=20)

- Functions of Testosterone.
- Enumerate the different blood group system. Importance of determination of blood groups.
- Different mechanism for regulating body temperature.
- Functions of thyroid hormones. Add a note on hypothyroidism.
- Cerebrospinal fluid.

4. Long answer question : (1×13=13)

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

OR

Long answer question : (1×13=13)

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



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First BASIC B.Sc. NURSING, Winter 2015

Anatomy and Physiology

Total Duration: Section A+B = 3 Hours

Total Marks : 75

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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 answer book for all sections.

Section "A" (42 Marks)
Anatomy

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



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

- a) Enumerate phases of Deglutition. Describe the second phase of deglutition. 6
- b) Describe lung volumes and capacities with the help of a neat labelled diagram. 7

OR

Long answer question : (1x13=13)

- c) Classify White blood cells. Write the characteristics and functions of each type. 6
- d) Define Cardiac Output. Explain the factors regulating cardiac output. 7

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

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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- 7) Use a common answerbook for all sections.

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.



b) Describe the left lung under the following heads :

- features
- root
- mediastinal surface
- Applied anatomy.

SECTION – B
(Physiology)

(33 Marks)

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

- Write a note on sarcomere
- Composition and functions of saliva
- Conducting system of heart
- Mechanisms for body temperature regulation
- Write a note on diabetes mellitus.

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

- Define and classify Anaemia. 6
- Describe process of urine formation. 7

OR

Long answer question : (1x13=13)

- Enumerate functions of lungs. Add a note on Oxygen-Haemoglobin dissociation curve. 6
- Define Menstrual cycle. Write briefly about phases of menstrual cycle. 7



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

Total Duration: Section A+B = 3 Hours

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. 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)



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

Total Duration : Section A + B = 3 Hours

Total Marks : 75

Instructions:

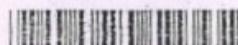
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- 7) Use a common answerbook for all Sections.

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. — Repeat winter 2015	
c) Sartorius muscle.	
d) Primary supports of uterus. — Repeat May/June 2011	
e) Differences between the small intestine and large intestine. Rep-Summer 2012/May/June 2008	
f) Nerve supply of tongue. — Rep-Summer-15	
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



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) : (4×5=20)

- a) Rh incompatibility. — *Repeat summer 2013*
- b) Puberty.
- c) Composition and Functions of Cerebrospinal Fluid (CSF). *May/June 2010*
- d) Actions of Thyroid hormone. Add a note on Hyperthyroidism.
- e) Explain the mechanism of muscle contraction.

4. Long answer question : (1×13=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. *Repeat winter 2015* 7

OR

Long answer question : (1×13=13)

- c) Describe the Composition and Functions of Pancreatic juice. *May/June 2011* 6
- d) Describe transport of Oxygen from lungs to the tissues. Draw a neat labelled diagram of Oxygen-Haemoglobin dissociation curve. 7

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

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SECTION – A & SECTION – B

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- 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) 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 : (3)

- 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. (1×12=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 2018

ANATOMY AND PHYSIOLOGY

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

SECTION – A (42 Marks)

(Anatomy)

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



b) Describe the stomach under following heads :

- i) External features and relations 3
- ii) Blood supply 3
- iii) Lymphatic Drainage 3
- iv) Applied Anatomy 3

SECTION – B (33 Marks)

(Physiology)

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

(4x5=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 :

(1x13=13)

- a) Define synapse, classify it and enumerate its properties. 6
- b) Describe the mechanism of synaptic transmission. 7

OR

Long answer question :

(1x13=13)

- c) What is the physiological basis of Blood group ? Name the various Blood groups 6
- d) What are the hazards of Blood transfusion ? 7

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

Total Duration : Section A + B = 3 Hours

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SECTION – A and SECTION – B

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- 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.
 - ii) Ligaments.
 - iii) Movements and muscles producing movements.
 - iv) Applied Anatomy.3
3
3
3
 - b) Describe the parotid gland under the following heads :
 - i) Gross structure and relations.
 - ii) Blood supply.
 - iii) Nerve supply.
 - iv) Applied Anatomy.4
3
3
2



SECTION – B (33 Marks)

3. Short answer question (any four out of five) : (4×5=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 : (1×13=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 : (1×13=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

First Basic B.Sc. Nursing Examination, Summer (Phase - II) 2019
ANATOMY AND PHYSIOLOGY

Total Duration : 3 Hours

Total Marks : 75

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

SECTION - A (42 Marks)

(ANATOMY)

1. Short answer questions (**any six** out of seven) : **[6 × 5 = 30]**
 - a) Boundaries and contents of femoral triangle.
 - b) Deltoid muscle.
 - c) Endoplasmic reticulum.
 - d) Relations and blood supply of Right kidney.
 - e) Name the extraocular muscles and mention their nerve supply.
 - f) Bronchopulmonary segments.
 - g) Classify synovial joints with examples.
2. Long answer questions (**any one** out of two):
 - a) Describe the urinary bladder under the following headings
 - i) Location and shape. **[2]**
 - ii) Capacity. **[1]**
 - iii) Relations in male and female. **[3]**
 - iv) Ligaments. **[2]**
 - v) Interior of bladder. **[2]**
 - vi) Applied anatomy. **[2]**

b) Describe the thyroid gland under the following headings [2]

- i) Shape, size and situation. [2]
- ii) Capsule of thyroid gland. [2]
- iii) Relations. [3]
- iv) Blood supply. [3]
- v) Applied anatomy. [2]

SECTION - B (33 Marks)

(PHYSIOLOGY)

3. Short answer questions (any four out of five): [4 × 5 = 20]

- a) Give the composition and functions of saliva.
- b) Write a note on functions of WBC.
- c) Functions of stomach.
- d) Give the composition and functions of cerebrospinal fluid (CSF)
- e) Give a flow chart of the conducting system of the heart.

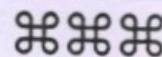
4. Long answer questions :

- a) Enumerate the hormones secreted by anterior pituitary gland. Discuss the actions of thyroid hormones on various metabolisms. [6]
- b) Add a note on Hyperthyroidism. [7]

OR

Long answer questions :

- c) Describe ABO & Rh blood group systems. [6]
- d) Add a note on erythroblastosis fetalis. [7]



**First Basic B.Sc. Nursing Examination, Winter
(Phase - III All other remaining UG/PG Course) - 2019
ANATOMY AND PHYSIOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION - A & 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 answer book for all sections.

SECTION - "A" (42 Marks)

(Anatomy)

1. Short answer question (any six out of seven) : **[6 × 5 = 30]**
 - a) Cubital fossa.
 - b) Morphological classification of bones.
 - c) Functions of cerebellum.
 - d) Supports of Uterus.
 - e) Sternocleidomastoid muscle.
 - f) Bare areas of liver.
 - g) Adductor canal.

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

- a) Describe heart under following heads:
 - i) External features (3)
 - ii) Valves (3)
 - iii) Blood supply (3)
 - iv) Applied Anatomy (3)
- b) Describe kidneys under following heads:
 - i) Morphology and Coverings (4)
 - ii) Relations (3)
 - iii) Blood supply (3)
 - iv) Applied Anatomy (2)

SECTION - "B" (33 Marks)
(Physiology)

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

- a) Explain Lung Volumes and Capacities with the help of a neat labelled diagram.
- b) Define Glomerular Filtration Rate and write the factors affecting GFR.
- c) Functions of Blood.
- d) Actions of Insulin. Add a note on Diabetes Mellitus.
- e) Physiology of Hearing.

4. Long answer question :

- a) Describe the phases of Menstrual Cycle.
- b) Write in brief the hormonal regulation of Menstrual Cycle. Add a note on Ovulation.

OR

Long answer question :

- c) Define Arterial Blood Pressure, Systolic BP and Diastolic BP. Write a note on Physiological variations in Blood Pressure.
- d) Enumerate the Mechanisms of Blood Pressure Regulation. Describe in detail the short term regulation of Blood Pressure



**First BASIC B.Sc. Nursing Examination, Summer
(Phase - III All other Remaining UG/PG Courses) - 2020**
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION - A & 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 answer book for all sections.**

SECTION - A (42 Marks)

(ANATOMY)

1. Short answer question (any Six out of Seven) **[6 × 5 = 30]**

- a) Axillary lymph nodes.
- b) Supports of uterus
- c) Classification of synovial joint with example of each type.
- d) Papillae of tongue.
- e) Muscles of gluteal region.
- f) Sternocleidomastoid muscle.
- g) Differentiate between small and large intestine.

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

- a) Describe kidney under the following headings,
 - i) Location and gross structure, ii) Coverings,
 - iii) Relations, iv) Blood supply,
 - v) Applied anatomy

b) Describe the hip joint under the following headings,

- Type of joint,
- Articular surfaces,
- Ligaments,
- Relations,
- Movements and muscles producing them,
- Applied anatomy.

SECTION - B (33 Marks)
(PHYSIOLOGY)

3. Short answer question (any four out of Five) : [4 × 5 = 20]

- Write the composition and functions of saliva.
- What is surfactant? Describe in brief its functions.
- Write a note on functions of skin.
- Explain the Rh blood group system. Add a note on Erythroblastosis foetalis.
- Write in brief about the conducting system of heart.

4. Long answer question : [1 × 13 = 13]

- Define and classify reflexes. [6]
- Describe the reflex arc with the help of a neat labelled diagram. Give two examples of reflex action. [7]

OR

Long answer question :

- Describe the various phases of menstrual cycle. [6]
- Discuss the hormonal control of menstrual cycle. [7]

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First Basic B.Sc. Nursing Examination, Winter - 2020
ANATOMY AND PHYSIOLOGY

Total Duration : Section A+B = 3 Hours

Total Marks : 75

SECTION - A & 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)

(Anatomy)

- Short answer questions (any six out of seven) : $[6 \times 5 = 30]$
 - a) Classification of bones with examples.
 - b) Enumerate extrinsic muscles of tongue and state its nerve supply
 - c) Right atrium
 - d) Support of uterus.
 - e) Deltoid muscle
 - f) T.S. of Spinal Cord
 - g) Boundaries and contents of cubital fossa

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2. Long answer question (any one out of two): 62501
a) Describe stomach under the following heads [1 × 12 = 12]
i) Gross and relations
ii) Blood supply
iii) Applied anatomy
b) Describe hip joint under the following heads [1 × 12 = 12]
i) Articular surface
ii) Ligaments
iii) Movements and muscles producing movements

SECTION - B (33 Marks)

(Physiology)

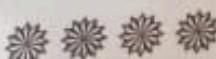
3. Short answer questions (any four out of five) : [4 × 5 = 20]
a) Cell membrane
b) Composition and functions of gastric juice
c) Spermatogenesis
d) Cretinism
e) Erythroblastosis foetalis

4. Long answer question : [1 × 13 = 13]
a) Define cardiac output. Enumerate the methods to measure cardiac output. Write about any one method. [6]
b) Write in brief about the factors determining cardiac output. [7]

OR

Long answer question : [1 × 13 = 13]

c) Write the compositions and Functions of blood? [6]
d) Write a note on iron deficiency anemia. [7]



**First Basic B.Sc. Nursing Examination, Winter
(Special Examination) - 2020
ANATOMY AND PHYSIOLOGY**

Total Duration : 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 answer book for all sections.**

SECTION- "A" (42 Marks)

(Anatomy)

1. Short answer question (**any six out of seven**) : **[$6 \times 5 = 30$]**
 - a) Microscopic structure of testis.
 - b) Structure and functions of skin.
 - c) Movements of shoulder joint.
 - d) Endoplasmic reticulum.
 - e) Gross anatomy of thyroid gland.
 - f) Bronchopulmonary segments.
 - g) Developmental abnormalities of urinary system.

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

- a) Describe stomach under following heads -

 - i) Gross anatomy
 - ii) Microscopic structure
 - iii) Applied anatomy.

- b) Describe heart under following heading -

 - i) Add a note on its applied anatomy
 - ii) Enumerate disorders of heart.

SECTION-“B” (33 Marks)

(Physiology)

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

[4 × 5 = 20]

- a) Immune Response.
- b) Structure & functions of neuron.
- c) Role of skin in temperature regulation.
- d) Functions of Saliva.
- e) Pituitary gland.

4. Long answer question:

[1 × 13 = 13]

- a) Define Homeostasis and write the functions of Platelets.
- b) Describe the composition & functions of blood. [7]

OR

Long answer question :

[1 × 13 = 13]

- c) Describe the errors of refraction in eye.
- d) Describe the functions of brain & spinal cord. [7]

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First BASIC B.Sc. (Nursing) Examination, Summer - 2021
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

Section - A & Section - B

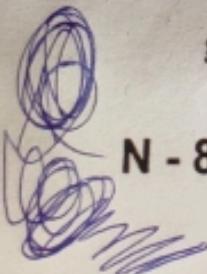
Instructions :

- 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)

(Anatomy)

1. Short answer question (any six out of seven) : **[6 × 5 = 30]**
 - a) Types of Tissues.
 - b) Popliteal fossa.
 - c) Classifications of joints.
 - d) Mechanism of Respiration.
 - e) Papillae of tongue.
 - f) Lobes of liver.
 - g) Enumerate abnormalities of organs of nervous system.



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

- a) Describe right lung under following heads : (i) anatomical position, size, shape (ii) lobes and bronchopulmonary segments (iii) blood supply
- b) Describe thyroid gland under following heads: (i) situation, size, shape (ii) relations (iii) blood supply

SECTION - B (33 Marks)

(Physiology)

3. Short answer question (any four out of five) : [4 × 5 = 20]

- a) Describe cell.
- b) Addison's disease.
- c) Write in brief any five functions of liver.
- d) Abnormalities of uterus.
- e) Describe Juxtaglomerular apparatus with the help of a neat well labelled diagram and give its functions.

4. Long answer question : [1 × 13 = 13]

- a) Define immunity. Describe cell mediated immunity.
- b) Add a note on AIDS.

OR

Long answer question : [1 × 13 = 13]

- c) Describe the transport of carbondioxide in the blood.
- d) Explain Haldane's effect and its significance to carbondioxide transport.



First Basic B.Sc. Nursing Examination, (Phase - III) Winter - 2021
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION - A & 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)

(Anatomy)

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

- a) Explain Cerebrum.
- b) Sternocleidomastoid muscle.
- c) Anatomical position of Thyroid Gland.
- d) Classify bones on the basis of size and shape with example of each.
- e) Structure and functions of skin.
- f) Relations of head of pancreas.
- g) Supports of uterus.

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

- a) Describe right kidney under following heads :
 - i) Location, shape, size, weight, orientation. [3]
 - ii) Relations [6]
 - iii) Applied anatomy [3]
- b) Describe heart under following heads :
 - i) External features [6]
 - ii) Arterial supply and venous drainage [6]

SECTION - B (33 Marks)
(Physiology)

3. Short answer question (**any four** out of five) : [4 × 5 = 20]

- a) Sodium potassium ATPase pump
- b) Movements of small intestine
- c) Composition and functions of CSF
- d) Cushings syndrome
- e) Oxygen haemoglobin dissociation curve

4. Long answer question (**any one** out of two) : [1 × 13 = 13]

- a) i) What is Oogenesis? Explain the functions of Ovaries in brief. [6]
- ii) What are the importance of the knowledge of reproductive system in the practice of nursing. [7]

OR

- b) i) Define immunity. Give its classification. Add a note on vaccination. [6]
- ii) Write in detail about cell mediated immunity. [7]



ANATOMY AND PHYSIOLOGY

Total Duration : 3 Hours

Total Marks : 75

Instructions :

- 1) Use **blue/black ball point pen only.**
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- 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 all Sections.**

SECTION - "A" (42 Marks)

(Anatomy)

1. Short answer question (**any six out of seven**): **[6 × 5 = 30]**
 - a) Classify synovial joints with examples.
 - b) Blood supply of Heart.
 - c) Nerve supply of Tongue.
 - d) Vermiform appendix.
 - e) Boundaries & contents of cubital fossa.
 - f) Bronchopulmonary segment.
 - g) Inguinal hernia.
2. Long answer question (**any one out of two**): **[1 × 12 = 12]**
 - a) Describe breast under following headings:
 - i) Gross anatomy **[6]**
 - ii) Blood supply **[2]**
 - iii) Lymphatic drainage **[2]**
 - iv) Applied anatomy **[2]**
 - b) Describe stomach under following headings:
 - i) Gross anatomy **[6]**
 - ii) Blood supply & lymphatic drainage **[4]**
 - iii) Applied aspect **[2]**

SECTION - "B" (33 Marks)**(Physiology)**

3. Short answer question (any four out of five): [4 × 5 = 20]

- Classify blood groups. What is the importance of blood group determination?
- Write composition and functions of gastric juice.
- Describe the formation and functions of cerebrospinal fluid.
- Comment about movements of alimentary tract.
- Describe neuromuscular transmission.

4. Long answer question : [1 × 13 = 13]

- Draw a neat well labelled diagram of cardiac cycle. Add a note on impulse conduction from SA node to purkinje system. [6]
- Name the forms in which oxygen is transported in blood. Describe the carriage of oxygen by haemoglobin. [7]

OR

Long answer question : [1 × 13 = 13]

- What is the mechanism of urine formation. Enumerate the different functions of kidney. [6]
- Enumerate different lung volumes with definition and draw well labelled diagram of lung volumes and capacities. What is the clinical importance of forced expiratory volume in one second (FEV1). [7]



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.**
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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)

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) :

- 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]

