

AUGUST 2007

[KR 1010]

Sub. Code : 4701

B.Sc. (Nursing) DEGREE EXAMINATION.

**(New Regulation for the Candidates admitted from
2006–07 onwards)**

First Year

Paper I — ANATOMY AND PHYSIOLOGY

Time : Three hours

Maximum : 75 marks

**Descriptive : Two hours and
forty five minutes**

Descriptive : 60 marks

Objective : Fifteen minutes

Objective : 15 marks

Answer ALL questions.

Answer Section A and Section B Separately.

SECTION A

(ANATOMY)

I. Essay : (1 × 15 = 15)

Name the endocrine glands present in our body and describe in detail about the thyroid gland. Add a note on its histology, embryology and its anomalies.

II. Write short notes on : (3 × 5 = 15)

(a) Cerebrospinal fluid

(b) Gall bladder

(c) Structures under the gluteus maximus.

SECTION B

(PHYSIOLOGY)

III. Essay : (1 × 15 = 15)

Enumerate the factors involved in blood coagulation and describe the two mechanism of blood coagulation. Add a note on anticoagulants.

IV. Write short notes on : (3 × 5 = 15)

(a) Contraceptive methods

(b) Factors affecting glomerular filtration rate

(c) Functions of liver.

FEBRUARY 2008

[KS 1010]

Sub. Code : 4701

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**(New Regulation for the candidates admitted from
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First Year

Paper I — ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours Maximum : 75 marks

**Descriptive : Two hours and Descriptive : 60 marks
forty five minutes**

Objective : Fifteen minutes Objective : 15 marks

Answer ALL questions.

Answer Section A and Section B Separately.

SECTION A

(ANATOMY)

I. Essay : (1 × 15 = 15)

Describe the classification of the joints. Explain the synovial joint with the suitable example with its applied anatomy.

II. Short notes : (3 × 5 = 15)

- (a) Inguinal canal**
- (b) Blood supply of the heart**
- (c) Decidua.**

SECTION B

(PHYSIOLOGY)

III. Essay : (1 × 15 = 15)

Define blood pressure and pulse pressure. What are its normal values? Describe how blood pressure is measured. Add a note on hypertension.

IV. Write short notes on : (3 × 5 = 15)

- (a) Plasma proteins.**
- (b) Functions of cerebellum**
- (c) Functions of saliva.**

August-2008

[KT 1010]

Sub. Code : 4701

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**(New Regulations for the candidates admitted from
2006-07 onwards)**

First Year

Paper I — ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B Separately.

SECTION A

(ANATOMY)

I. Essay : (1 × 15 = 15)

**1. (a) Enumerate the Endocrine glands with their
position. (5)**

**(b) Describe the location, Parts, Capsule,
Relations, blood supply and Histology of Thyroid gland.
(10)**

II. Write short notes : (3 × 5 = 15)

1. Uterus.
2. Spinal Cord.
3. Coronary circulation

III. Short answer questions : (5 × 2 = 10)

1. Give two examples for a ball and socket joint.
2. Name two glands lined by cuboidal epithelium.
3. Name the parts of a long bone.
4. Name the ossicles in the middle ear.
5. Mention the layers of the epidermis of the skin.

SECTION B

(PHYSIOLOGY)

I. Essay : (1 × 15 = 15)

1. What is the normal RBC count? Describe the stages of Erythropoiesis. What are the factors influencing erythropoiesis?

II. Write short notes : (2 × 5 = 10)

1. Spermatogenesis.
2. Reflex arc.

III. Short answer questions : (5 × 2 = 10)

1. List any two important functions of WBC'S?
 2. What are the Vitamin K dependent clotting factors?
 3. Mention the four lung volumes.
 4. List any two gastrointestinal hormones.
 5. Mention any two functions of bile.
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February 2009

[KU 1010]

Sub. Code: 4701

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION – A

(ANATOMY)

I. Essay: (1 x 15 = 15)

1. Describe the uterus under the following heads:
a) Situation b) Normal position c) Parts
d) Relations e) Blood Supply f) Supports g) Applied anatomy.

II. Write Short Notes on : (3 x 5 = 15)

1. Median cubital vein – formation, situation, applied anatomy.
2. Gluteus maximus – Origin, insertion, nerve supply, applied anatomy.
3. Trachea – length, histology and divisions.

III. Short Answer Questions: (5 x 2 = 10)

1. Name any two endocrine glands.
2. Mention the terminal branches of Brachial artery.
3. Give two examples of a Hinge joint.
4. Mention the branches of the trigeminal nerve.
5. Mention the types of cartilage.

SECTION – B

(PHYSIOLOGY)

I. Essay: (1 x 15 = 15)

1. Write in detail the physiological changes occurring in different phases of menstrual cycle. Add a note on female contraceptive devices.

II. Write Short Notes on : (2 x 5 = 10)

1. Functions of skin.
2. Composition and functions of cerebrospinal fluid.

III. Short Answer Questions: (5 x 2 = 10)

1. Pulse.
2. Types of WBC's and functions.
3. What are the neural centres for respiration.
4. Gigantism.
5. List any two functions of bile.

August 2009

[KV 1010]

Sub. Code: 4701

B.Sc (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION – A

(ANATOMY)

I. Essay: (1 x 15 = 15)

1. Name the types of circulation. Describe in detail about blood supply of heart along with its applied anatomy.

II. Write Short Notes on : (3 x 5 = 15)

1. Uterus.
2. Structure of kidney.
3. Radial artery.

III. Short Answer Questions: (5 x 2 = 10)

1. Name the types of muscle.
2. Name any four hormones secreted by pituitary gland.
3. Name the layers of skin.
4. Mention any for lymphoid organs present in our body.
5. Name the muscles of Respiration.

SECTION – B
(PHYSIOLOGY)

I. Essay: (1 x 15 = 15)

1. Define blood pressure? What is the normal value of blood pressure?
Mention and discuss in brief the various factors which influence blood pressure

II. Write Short Notes on : (2 x 5 = 10)

1. Hypoxia.
2. Functions of liver.

III. Short Answer Questions: (5 x 2 = 10)

1. Name any two hormones produced by the ovary?
2. List the name of any two neuroglial cells.
3. Mention any two functions of skin.
4. Name any two enzymes which helps in digestion of carbohydrates.
5. List any two contractile proteins present in the skeletal muscle.

February 2010

[KW 1010]

Sub. Code: 4701

B.Sc (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION A (ANATOMY)

I. Essay: (1 x 15 = 15)

1. Enumerate the organs of digestion including accessory organs of digestion. Describe in detail about stomach under the following headings:
a) Situation b) Parts c) Relation d) Blood supply
e) Nerve supply f) Applied anatomy.

II. Write Short Notes on : (3 x 5 = 15)

1. Deltoid muscle - origin, insertion nerve supply and applied anatomy.
2. Pancreas along with applied anatomy.
3. Ovary.

III. Short Answer Questions: (5 x 2 = 10)

1. Name the organs of respiration.
2. Mention the types of bone.
3. Name the branches of coronary artery.
4. Give two examples of ball and socket joint.
5. Name the layers of uterus.

SECTION B (PHYSIOLOGY)

I. Essay: (1 x 15 = 15)

1. Discuss in detail the various stages of erythropoiesis and the factors influencing erythropoiesis. Add a note on functions of blood.

II. Write Short Notes on : (2 x 5 = 10)

1. Digestion in the stomach.
2. Gas exchange in lungs.

III. Short Answer Questions: (5 x 2 = 10)

1. Two functions of kidney.
2. Define reflex action.
3. What are the hormones secreted by anterior pituitary.
4. Draw a diagram of conducting system of heart.
5. List the contraceptive measures in a female.

[KY 1010]

February 2011

Sub. Code: 4701

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION A

(ANATOMY)

I. Essay:

(1X15=15)

1. Describe the mammary gland under the following headings: (i) Shape (ii) Surfaces (iii) Structure (iv) Blood supply (v) Lymphatic drainage (vi) Applied anatomy.

II. Write Short Notes on :

(3X 5 =15)

1. Tongue – Parts, surfaces, muscles, nerve, supply.
2. Urinary Bladder – Parts, surfaces, capacity, interior.
3. Draw and label the eye ball.

III. Short Answer Questions:

(5X 2 =10)

1. Enumerate the contents of the spermatic cord.
2. Name the major openings in the Diaphragm.
3. Mention the parts of the pancreases.
4. Mention the upper and lower extent of the spinal cord in adult.
5. Name the arteries supplying the heart and their origin.

SECTION B

(PHYSIOLOGY)

I. Essay:

(1X15=15)

1. Discuss in detail the different stages of erythropoiesis and the factors necessary for erythropoiesis.

II. Write Short Notes on :

(2X 5 =10)

1. Enumerate the functions of Saliva.
2. Describe the conductive system of the heart.

III. Short Answer Questions:

(5X 2 =10)

1. What is calcium and its effect on serum calcium level?
2. Name the two important waste products excreted by the Kidneys.
3. What are the two hormones secreted by posterior pituitary gland?
4. Write two functions of gall bladder.
5. Mention two uses of ECG.

August 2011

[KZ 1010]

Sub. Code : 4701

B.Sc (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION A (ANATOMY)

I. Essay (1 x 20 = 20)

1. Classify the Nervous system and write in detail about the functional areas of Cerebrum.

II. Write Short Notes: (4 x 5 = 20)

1. Deltoid muscle – Origin, insertion, nerve supply, action, applied anatomy.
2. Blood supply to heart – Arterial supply, venous drainage, and applied anatomy.
3. Stomach – Position, parts, blood supply, nerve supply, applied anatomy.
4. Circle of Willis – Formation, area of supply and applied anatomy.

III. Short Answers Questions: (5 x 2 = 10)

1. Write the parts of Fallopian tube.
2. Mention any two connective tissue cells.
3. Draw the structure of nephron.
4. Name the contents of middle ear cavity.
5. Mention the three layers of adrenal cortex.

SECTION B (PHYSIOLOGY)

I. Essay (1 x 20 = 20)

1. Write in detail the mechanism of urine formation.

II. Write Short Notes: (4 x 5 = 20)

1. Describe the functions of placenta.
2. Mention the physiological factors affecting blood pressure.
3. Oxygen transport.
4. Functions of Liver.

III. Short Answers Questions: (5 x 2 = 10)

1. Mention two functions of Hydrochloric acid.
2. Write two functions of Surfactant.
3. Name different refractory errors of the eye.
4. What is Tetany?
5. Name different types of muscle tissue.

February 2012

[LA 1010]

Sub. Code: 4701

**B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)**

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

SECTION A

(ANATOMY)

(37)

I. Elaborate on:

(1X12=12)

1. Enumerate the parts of respiratory system and write in detail about the Lung.

II. Write notes on :

(3X 5 =15)

1. Urinary Bladder – Position, external features, relations and applied anatomy
2. Blood supply of Brain.
3. Gluteus maximus.

III. Short Answer:

(5X 2 =10)

1. Name any two contents of cubital fossa.
2. Mention the neuroglial cells.
3. Give two examples for ball and socket joint.
4. Write any two characteristic features of skeletal muscle.
5. Mention the three coverings of eyeball.

SECTION B

(PHYSIOLOGY)

(38)

I. Elaborate on:

(1X13=13)

1. Define Immunity. How do you classify Immunity? Add a note on the various functions of T lymphocytes and B lymphocytes.

II. Write notes on :

(3X 5 =15)

1. Functions of placenta.
2. Dwarfism.
3. Surfactant.

III. Short Answer:

(5X 2 =10)

1. Mention any two functions of blood.
2. Name any two hormones produced by the adrenal cortex.
3. List any two functions of CSF.
4. Name any four primary tastes.
5. List any two physiological properties of skeletal muscle.

[LB 1010]

AUGUST 2012

Sub. Code: 4701

FIRST YEAR B.Sc – NURSING EXAM
Paper I – ANATOMY AND PHYSIOLOGY
Q.P. Code : 664701

Time : Three hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.
Answer Section A and Section B Separately

SECTION A
(ANATOMY)

I. Elaborate on:

Pages (Max.)	Time (Max.)	Marks (Max.)
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1. Enumerate the organs of male reproductive system.
Describe the testis in detail under the following headings.
a) coverings b) structure c) blood supply and
d) clinical significance.

19	33	20
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II. Write notes on:

1. Describe the location and features of the myocardium.
2. Explain the ventricles of the brain.
3. Where is the thyroid gland situated? Name the hormones secreted by it.
4. Describe the structure of the inner ear.

3	8	5
3	8	5
3	8	5
3	8	5

III. Short Answers:

1. Name any two Sesamoid bones.
2. Give the formation of Superior vena cava.
3. Write the layers of eye.
4. What are the anatomical lobes of the liver?
5. Mention the parts of Uterus.

1	5	2
1	5	2
1	5	2
1	5	2
1	5	2

SECTION B
(PHYSIOLOGY)

I. Elaborate on:

1. Describe the origin, course and termination of pyramidal tract. State its functions. What is the effect of their lesion?

19	33	20
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II. Write notes on:

1. Gall bladder.
2. Renin Angiotensin system.
3. Regulation of Arterial pressure.
4. Endometrial cycle.

3	8	5
3	8	5
3	8	5
3	8	5

III. Short Answers:

1. Define cardiac output.
2. Rigor mortis.
3. Placental hormones.
4. Color blindness.
5. Functions of saliva.

1	5	2
1	5	2
1	5	2
1	5	2
1	5	2

[LC 1010]

FEBRUARY 2013

Sub. Code: 4701

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 100 marks

Answer Section A and Section B SEPARATELY.

SECTION A

(ANATOMY)

I. Essay:

(1x20=20)

1. Enumerate the parts of female reproductive system. Describe in detail about the supporters of uterus

II. Write Short Notes on :

(4x5=20)

1. Stomach –Position, parts blood supply nerve supply and applied anatomy.
2. Gluteus maximus
3. Describe the major openings in the diaphragm
4. Radial artery

III. Short Answer Questions:

(5x2=10)

1. Mention the types of muscle
2. Name any four hormones secreted by pituitary gland
3. Name the layers of skin
4. Mention any four lymphoid organs present in our body
5. List out the name of any two contents for spermatic cord.

SECTION B

(PHYSIOLOGY)

I. Essay:

(1x20=20)

1. What is erythropoiesis? Describe the stages of erythropoiesis and write the factors influencing the same

II. Write Short Notes on :

(4x5=20)

1. Name the secretions of pituitary gland and write the functions
2. Hypoxia
3. Functions of blood
4. Neuromuscular junction.

III. Short Answer Questions:

(5x2=10)

1. Classify WBC
2. Name any two contractile proteins
3. Spermatogenesis
4. CSF and its functions
5. Female sex organs.

[LD 1010]

AUGUST 2013

Sub. Code: 4701

B.Sc (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 100 marks

Answer Section A and Section B SEPARATELY.

SECTION A
(ANATOMY)

I. Essay:

(1x20=20)

1. Describe the organs of urinary system in detail.

II. Write Short Notes on :

(4x5=20)

1. Supports of uterus.
2. Pancreas.
3. Tongue.
4. Deltoid muscle

III. Short Answer Questions:

(5x2=10)

1. Name the types of bones.
2. Name the veins used for intravenous injections.
3. Varicose veins.
4. Pleural recesses.
5. Differences between small intestine and large intestine.

SECTION B
(PHYSIOLOGY)

I. Essay:

(1x20=20)

1. Describe the structure of thyroid gland. Name the hormones of thyroid. Describe in detail the functions of thyroxine. Add a note on cretinism.

II. Write Short Notes on :

(4x5=20)

1. Heart Sounds.
2. Functions of Hypothalamus.
3. Hypoxia
4. Factors affecting erythropoiesis.

III. Short Answer Questions:

(5x2=10)

1. Name the Different types of Muscle.
2. List out any 4 functions of liver.
3. Non excretory functions of Kidney
4. Colour Blindness.
5. List out the methods of contraception in females.

[LE 1010]

FEBRUARY 2014

Sub. Code: 4701

B.Sc (Nursing) DEGREE EXAMINATION

(New Regulations for the candidates admitted from 2006-07 onwards)

First Year

Paper I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 marks

Answer Section A and Section B SEPARATELY.

**SECTION A
(ANATOMY)**

I. Essay: (1x12=12)

1. Name the endocrine glands and describe about the thyroid gland in detail.

II. Write Notes on : (3x5=15)

1. Classification of bones
2. Cerebellum
3. Vermiform appendix

III. Short Answer Questions: (5x2=10)

1. Costodiaphragmatic recess.
2. Parts of pituitary gland.
3. Transitional epithelium
4. Median cubital vein
5. Coverings of eye ball

**SECTION B
(PHYSIOLOGY)**

I. Essay: (1x13=13)

1. Write in detail the regulation of Respiration. Define Tidal volume and vital capacity.

II. Write Notes on: (3x5=15)

1. Classification and functions of leukocytes
2. Conducting system of the heart
3. Deglutition

III. Short Answer Questions: (5x2=10)

1. Name the plasma proteins
2. Define Glomerular Filtration rate
3. Mention two functions of neuroglia
4. Write two functions of Kidneys
5. Name the two enzymes that help in the digestion of proteins
