

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 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)

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

B.Sc. (Nursing) DEGREE EXAMINATION.

(New Regulation 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

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

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 × 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.

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.

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 Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|---|----|----|----|
| 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 |
|---|----|----|----|

II. Write notes on:

- | | | | |
|---|---|---|---|
| 1. Describe the location and features of the myocardium. | 3 | 8 | 5 |
| 2. Explain the ventricles of the brain. | 3 | 8 | 5 |
| 3. Where is the thyroid gland situated? Name the hormones secreted by it. | 3 | 8 | 5 |
| 4. Describe the structure of the inner ear. | 3 | 8 | 5 |

III. Short Answers:

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

II. Write notes on:

- | | | | |
|-------------------------------------|---|---|---|
| 1. Gall bladder. | 3 | 8 | 5 |
| 2. Renin Angiotensin system. | 3 | 8 | 5 |
| 3. Regulation of Arterial pressure. | 3 | 8 | 5 |
| 4. Endometrial cycle. | 3 | 8 | 5 |

III. Short Answers:

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

[LF 1010]

AUGUST 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 sensory organs and write in detail about the Tongue

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

1. Testis
2. Differences between small and large intestines.
3. Great Saphenous vein

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

1. Pleuritis
2. Parts of a young bone
3. Openings of diaphragm
4. Name the Lymphoid organs
5. Ear ossicles

SECTION B
(PHYSIOLOGY)

I. Essay: (1x13=13)

1. Define Blood Pressure. Write in detail the factors controlling blood pressure.

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

1. Blood grouping
2. Contraceptive methods
3. Micturition

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

1. Name the pacemaker of heart
2. Write two functions of Bile
3. Name the first two clotting factors
4. Two functions of Cerebellum
5. Two hormones of Adrenal Medulla

[LG 1010]

FEBRUARY 2015

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: (1 x 12 = 12)

1. Define a Joint. Explain the features of Synovial Joint. Classify the various types of Synovial Joint with suitable Examples.

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

1. Describe the interior of Heart
2. Testis
3. Fallopian tube

III. Short answers on: (5 x 2 = 10)

1. Name the structures present in the hilum of the Liver
2. Name the coverings of the brain
3. Name the parts of the pancreas
4. Name the types of the cartilage
5. Name the branches of the arch of aorta

SECTION B
(PHYSIOLOGY)

I. Essay: (1 x 13 = 13)

1. What is Menstrual Cycle? Explain the Ovarian changes taking place during Menstrual Cycle.

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

1. Functions of Saliva
2. Transport of Carbon dioxide
3. Refractive errors of eye

III. Short answers on: (5 x 2 = 10)

1. Name the leads of Electrocardiogram
2. Types of Nephron and its functions
3. Name any four hormones secreted by Anterior pituitary gland
4. Types of Blood group
5. Define Sarcomere

[LH 1010]

AUGUST 2015

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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. Elaborate on: **(1 x 12 = 12)**

1. Enumerate the parts of the Digestive system and describe the stomach under the following heading:
a) Situation b) Parts c) Blood supply d) Lymphatic drainage e) Applied anatomy.

II. Write notes on: **(3 x 5 = 15)**

1. Para nasal sinuses.
2. Structural differences between skeletal, cardiac and smooth muscles.
3. Functional areas of cerebrum.

III. Short answers on: **(5 x 2 = 10)**

1. Parts of uterine tube.
2. Splenomagaly.
3. Dislocation of shoulder joint.
4. Blood brain barrier.
5. Quadriceps femoris muscle.

SECTION – B
(PHYSIOLOGY)

I. Elaborate on: **(1 x 13 = 13)**

1. Define erythropoiesis. Describe in detail about the stages of erythropoiesis.
Add a note on maturation factors.

II. Write notes on: **(3 x 5 = 15)**

1. Electro cardiogram [ECG]
2. Functions of skin.
3. Functions of placenta.

III. Short answers on: **(5 x 2 = 10)**

1. What is surfactant?
2. Mention the enzymes present in pancreatic juice.
3. Types of Neurons.
4. Muscle tone.
5. Name the bile salts.

[LI 1010]

FEBRUARY 2016

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 12 = 12)

1. Enumerate the Blood Supply of the Heart under the following headings:-
Origin, course, relations, branches, supplying area and its clinical Anatomy.

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

1. Structural differences between Skeletal, Cardiac and Smooth Muscles.
2. Draw the labeled diagram of Eye ball.
3. Stomach.

III. Short answers on: (5 x 2 = 10)

1. Name the bones present in the middle Ear.
2. Name the Endocrine glands present in the body.
3. Name the structures present in the Hilum of the right Lung.
4. Name any four Cranial nerves.
5. Give two examples of Synovial Joints.

**SECTION B
(PHYSIOLOGY)**

I. Essay: (1 x 13 = 13)

1. Write in detail the mechanism of Urine formation.

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

1. Dwarfism.
2. Heart sounds.
3. Neuro-muscular junction.

III. Short answers on: (5 x 2 = 10)

1. Describe the conducting system of the Heart.
2. Enumerate the functions of Saliva.
3. List the name of any two Neuroglial cells.
4. Name any two hormones produced by the Ovary.
5. Functions of Bile.

[LJ 1010]

AUGUST 2016

Sub. Code: 4701

B.Sc. (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)
FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION A
(ANATOMY)

I. Elaborate on : **(1 x 12 = 12)**

1. Draw and label a neat diagram of urinary system. Write in detail about the kidney.

II. Write notes on : **(3 x 5 = 15)**

1. Pancreas.
2. Blood supply of heart.
3. Mammary gland.

III. Short answers on: **(5 x 2 = 10)**

1. Name the muscles used for intramuscular injection.
2. Write the vertebral level for lumbar puncture and level of termination of spinal cord .
3. Write any two characteristic features of cardiac muscle.
4. Name any two hernias.
5. Write the parts of fallopian tube.

SECTION B
(PHYSIOLOGY)

I. Elaborate on : **(1 x 13 = 13)**

1. Describe in detail with a help of diagram the mechanism of skeletal muscle contraction.

II. Write notes on: **(3 x 5 = 15)**

1. Factors affecting glomerular filtration rate.
2. Trace the visual pathway.
3. Neural regulation of respiration.

III. Short answers on: **(5 x 2 = 10)**

1. Any two functions of cell membrane.
2. Any four functions of thyroid hormone.
3. Functions of red blood cells.
4. What is vital capacity? Give the normal value.
5. Name any two contraceptive methods.

[LK 1010]

FEBRUARY 2017

Sub. Code: 4701

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

FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION A
(ANATOMY)

I. Elaborate on: **(1 x 12 = 12)**

1. Enumerate the parts of female reproductive system with a neat diagram. Describe about the uterus in detail.

II. Write notes on: **(3 x 5 = 15)**

1. Tongue.
2. Circle of Willis.
3. Deltoid muscle.

III. Short answers on: **(5 x 2 = 10)**

1. Name the arteries supplying the heart and give their origin.
2. Write any two characteristic features of skeletal muscle.
3. Name the organs involved in respiratory system.
4. Name the ventricles present in the brain.
5. Name the salivary glands present in the body.

SECTION B
(PHYSIOLOGY)

I. Elaborate on: **(1 x 13 = 13)**

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

II. Write notes on: **(3 x 5 = 15)**

1. Neuro muscular junction.
2. Transport of oxygen in blood.
3. Hormonal regulation of menstrual cycle.

III. Short answers on: **(5 x 2 = 10)**

1. Name the layers and secretions of adrenal cortex.
2. Any four functions of calcium.
3. Functions of leucocytes.
4. Name the hormones that act on nephron.
5. Name the three compartments of cochlea.

[LL 1010]

AUGUST 2017

Sub. Code: 4701

B.Sc. (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)
FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION A
(ANATOMY)

I. Elaborate on: **(1 x 12 = 12)**

1. Enumerate the different special sensory organs of the human body. Describe in detail about eye.

II. Write notes on: **(3 x 5 = 15)**

1. Urinary bladder – parts, surfaces, ligaments.
2. Arterial supply of heart.
3. Blood supply and applied anatomy of stomach.

III. Short answers on: **(5 x 2 = 10)**

1. Name the major openings of diaphragm.
2. Name the different organs of female reproductive system.
3. Name the lobes of cerebrum.
4. Name the different organs of respiratory systems.
5. Name the different lymphatic organs of the body.

SECTION B
(PHYSIOLOGY)

I. Elaborate on: **(1 x 13 = 13)**

1. Define erythropoiesis. Describe in detail about the stages of erythropoiesis. Add a note on maturation factors.

II. Write notes on: **(3 x 5 = 15)**

1. Conducting system of heart.
2. Functions of skin.
3. Composition and function of saliva.

III. Short answers on: **(5 x 2 = 10)**

1. Synapse.
2. Define osmosis.
3. Define respiratory unit.
4. Functions of sertoli cells.
5. What is myopia? Name the corrective lens used for myopia.

[LM 1010]

FEBRUARY 2018

Sub. Code: 4701

B.Sc. (Nursing) DEGREE EXAMINATION
(New Regulations for the candidates admitted from 2006-07 onwards)
FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code : 664701

Time : Three hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION A
(ANATOMY)

I. Elaborate on: **(1 x 12 = 12)**

1. Write in detail about the lymphatic organs.

II. Write notes on: **(3 x 5 = 15)**

1. Blood supply to heart.
2. Cerebellum.
3. Support of uterus.

III. Short answers on: **(5 x 2 = 10)**

1. Name the muscles of tongue.
2. Median cubital vein.
3. Ear ossicles.
4. Name the covering of the brain.
5. Name the parts of pancreas.

SECTION B
(PHYSIOLOGY)

I. Elaborate on: **(1 x 13 = 13)**

1. What is calcium homeostasis? Explain the role of parathyroid hormone in calcium homeostasis? Add a note on tetany.

II. Write notes on: **(3 x 5 = 15)**

1. Briefly explain the conductive system of the heart.
2. Lung volumes.
3. Composition and functions of cerebro-spinal fluid.

III. Short answers on: **(5 x 2 = 10)**

1. Mention any two functions of blood.
2. List out any four functions of liver.
3. Rigor mortis.
4. Mention any two functions of skin.
5. Mention any two functions of testosterone.

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

FIRST YEAR

PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code : 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION - A
(ANATOMY)

I. Elaborate on: (1 x 12 = 12)

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

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

1. Stomach.
2. Types of joints with examples.
3. Testes.

III. Short answers on: (5 x 2 = 10)

1. Types of cartilage.
2. Name any two contents of cubital fossa.
3. Parts of fallopian tube.
4. Name the major openings in the diaphragm.
5. Name the endocrine glands.

SECTION - B
(PHYSIOLOGY)

I. Elaborate on: (1 x 13 = 13)

1. Define the cardiac cycle. What are the events in a cardiac cycle? Describe the ventricular events in detail. Add a note on heart sounds.

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

1. Spermatogenesis.
2. Enumerate the functions of saliva.
3. Functions of cerebellum.

III. Short answers on: (5 x 2 = 10)

1. Any two important functions of platelets.
2. What is residual volume? Give the normal value.
3. Define sarcomere.
4. Types of nephron and its functions.
5. Color blindness.

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

FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code: 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION - A
(ANATOMY)

I. Elaborate on: (1 x 12 = 12)

1. Name the different Endocrine Glands present in the Human Body.
Describe in detail the anatomy of the Thyroid Gland.

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

1. Classification of bones with examples.
2. Anterior and posterior relations of both the Kidneys.
3. Pharynx.

III. Short answers on: (5 x 2 = 10)

1. Name the arteries supplying the stomach.
2. Draw a neat labelled diagram of the section of eye ball.
3. Name the different organs of male reproductive system.
4. Name the structures passing through the hilum of right lung.
5. Name the muscles for intramuscular injection.

SECTION - B
(PHYSIOLOGY)

I. Elaborate on: (1 x 13 = 13)

1. Write in detail the mechanism of urine formation.

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

1. Blood grouping.
2. Functions of female sex hormones.
3. Refractive errors of eye.

III. Short answers on: (5 x 2 = 10)

1. Mention two uses of ECG.
2. Name the two enzymes that help in the digestion of proteins.
3. Two functions of cerebellum.
4. Muscle tone.
5. Name the muscles for inspiration and expiration.

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

FIRST YEAR

PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code: 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION - A
(ANATOMY)

I. Elaborate on: (1 x 12 = 12)

1. Enumerate the organs of digestion. Describe in detail about stomach.

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

1. Urinary bladder.
2. Blood supply of brain.
3. Right atrium of the heart.

III. Short answers on: (5 x 2 = 10)

1. Name the branches of arch of aorta.
2. Name any four applied anatomy of pleura.
3. Coverings of eye ball.
4. Varicose vein.
5. Mention the types of muscle.

SECTION - B
(PHYSIOLOGY)

I. Elaborate on: (1 x 13 = 13)

1. Define blood pressure. Explain the factors regulating blood pressure in detail.
Add note on hypertension.

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

1. Properties of skeletal muscle.
2. Hypoxia and its types.
3. Functions of Hypothalamus.

III. Short answers on: (5 x 2 = 10)

1. Functions of stomach.
2. Secretion of posterior pituitary gland and its functions.
3. Dead space.
4. Active transport.
5. Different types of taste.

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

FIRST YEAR

PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code: 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION - A
(ANATOMY)

I. Elaborate on: (1 x 12 = 12)

1. Name the organs of male reproductive system. Describe in detail about testis.

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

1. Name the parts of extra-hepatic biliary apparatus. Write about gall bladder.
2. Describe in detail the supports of uterus.
3. Right atrium of the heart.

III. Short answers on: (5 x 2 = 10)

1. Median cubital vein – position and clinical importance.
2. Write about the parts of the ureter.
3. Mention any four functional areas of cerebrum.
4. Name the bones forming the vertebral column.
5. Name the fissures and lobes of right lung.

SECTION - B
(PHYSIOLOGY)

I. Elaborate on: (1 x 13 = 13)

1. Define Landsteiner's Law. Explain ABO blood grouping system. Add a note on Erythroblastosis foetalis.

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

1. Define cardiac output. Write a short note on factors regulating cardiac output.
2. Intrinsic pathway of coagulation.
3. Functions of cerebellum.

III. Short answers on: (5 x 2 = 10)

1. Pancreatic secretions.
2. Hormones of anterior pituitary gland.
3. Any two non-excretory functions of kidney.
4. Cretinism.
5. Functions of testosterone.

[BSCN 0321]

MARCH 2021

Sub. Code: 4701

(AUGUST 2020 SESSION)

B.Sc. (Nursing) DEGREE EXAMINATION

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

FIRST YEAR

PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code: 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION - A
(ANATOMY)

I. Elaborate on: (1 x 12 = 12)

1. Name the different parts and functions of Digestive System. Describe in detail about Stomach.

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

1. Bronchopulmonary Segments.
2. Blood supply of heart.
3. Types of Muscles.

III. Short answers on: (5 x 2 = 10)

1. Name the arteries forming Circle of Willis.
2. Name the veins for Intravenous Injection.
3. Name the cranial nerves emerging from Medulla Oblongata.
4. Name the varieties of Synovial Joints.
5. Name the coverings of Testis.

SECTION - B
(PHYSIOLOGY)

I. Elaborate on: (1 x 13 = 13)

1. Explain the composition, Circulation and Functions of CSF.

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

1. Bone Healing and Stages.
2. Functions of Skin.
3. Coagulation of blood.

III. Short answers on: (5 x 2 = 10)

1. Two functions of Liver.
2. Renal failure.
3. Myasthenia gravis.
4. Name any four Female Sex Hormones.
5. Glands.

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

FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code: 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION - A
(ANATOMY)

I. Elaborate on: (1 x 12 = 12)

1. Name the Different Parts and Functions of Female Reproductive System. Describe in detail about Uterus and its Support.

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

1. Urinary bladder.
2. Pituitary gland.
3. Liver.

III. Short answers on: (5 x 2 = 10)

1. Name the Major Arteries in Upper Limb.
2. Name The Constrictions in Ureter.
3. Name the parts in Hind Brain.
4. Name the Types of Bones.
5. Name the Major Muscles involved in respiration.

SECTION - B
(PHYSIOLOGY)

I. Elaborate on: (1 x 13 = 13)

1. Explain the Joints and their movements.

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

1. Menstrual cycle.
2. Functions of thyroid gland.
3. Conduction of heart.

III. Short answers on: (5 x 2 = 10)

1. Hemophilia.
2. Rickets.
3. Types of membrane.
4. Vital capacity.
5. Name two pancreatic enzymes.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 0622]

**JUNE 2022
(FEBRUARY 2022 SESSION)**

Sub. Code: 4701

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

**FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY**

Q.P. Code: 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

**SECTION - A
(ANATOMY)**

I. Elaborate on: (1 x 12 = 12)

1. Describe in detail about anatomy of heart and its blood supply.

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

1. Cerebellum.
2. Tongue.
3. Ovary.

III. Short answers on: (5 x 2 = 10)

1. Name any four tributaries of inferior vena cava.
2. Name the major contents of femoral triangle.
3. Varicose veins.
4. Name the parts of large intestine.
5. Name the cranial nerves in order.

**SECTION - B
(PHYSIOLOGY)**

I. Elaborate on: (1 x 13 = 13)

1. What is menstrual cycle? Explain the uterine changes taking place during menstrual cycle.

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

1. Composition and function of pancreatic juice.
2. Immunity.
3. Transport of carbon dioxide.

III. Short answers on: (5 x 2 = 10)

1. Name the leads of electrocardiogram.
2. Types of neuron.
3. Name any four hormones secreted by anterior pituitary gland.
4. Pupillary reflex.
5. Types of muscle.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 1122]

**NOVEMBER 2022
(AUGUST 2022 EXAM SESSION)**

Sub. Code: 4701

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

**FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY
Q.P. Code: 664701**

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

**SECTION - A
(ANATOMY)**

I. Elaborate on: (1 x 12 = 12)

1. a) Enumerate the different special sensory organs of the human body.
- b) Describe in detail about eye.

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

1. Structural difference between Skeletal, Cardiac and Smooth muscles.
2. Tongue – Parts, Papillae, Muscles.
3. Circle of Willis.

III. Short answers on: (5 x 2 = 10)

1. Name the bones present in the Ear.
2. Name the lobes of Cerebrum.
3. Give any two examples of Cuboidal epithelium.
4. Name the veins used for Intravenous Injections.
5. Name the layers of Adrenal Cortex.

**SECTION - B
(PHYSIOLOGY)**

I. Elaborate on: (1 x 13 = 13)

1. Define Synapse. Describe in detail about structure and functions of synapse.
Add a note on properties of synapse.

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

1. Diabetes mellitus.
2. Micturition.
3. Functions of placenta.

III. Short answers on: (5 x 2 = 10)

1. What is surfactant?
2. Frank – starling's law.
3. Types of leucocytes.
4. Primary taste.
5. Name the bile salts.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 0523]

MAY 2023

Sub. Code: 4701

(FEBRUARY 2023 EXAM SESSION)

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

**FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY
Q.P. Code: 664701**

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

**SECTION - A
(ANATOMY)**

I. Elaborate on: (1 x 12 = 12)

1. Enumerate parts of Urinary system with a neat labelled diagram and describe Kidney in detail under the following headings:
 - a) External features
 - b) Relations
 - c) Coverings of Kidney
 - d) Nursing implications of Kidney disorders.

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

1. Bronchopulmonary segments.
2. Classification of Synovial joints with examples.
3. Functional areas of Cerebrum.

III. Short answers on: (5 x 2 = 10)

1. Name the parts of Extra Hepatic Biliary Apparatus.
2. Name the branches of Arch of Aorta.
3. Write the parts of Fallopian tube and mention the area of Fertilization.
4. Name the muscles used for Intramuscular injection.
5. Name any two Hormones Secreted by Anterior Pituitary Gland

**SECTION - B
(PHYSIOLOGY)**

I. Elaborate on: (1 x 13 = 13)

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 notes on: (3 x 5 = 15)

1. Intrinsic pathway of Coagulation.
2. Hypoxia and its types.
3. Refractive errors of Eye.

III. Short answers on: (5 x 2 = 10)

1. Hormones of Anterior Pituitary Gland.
2. Functions of Stomach.
3. Two functions of Cerebellum.
4. Two functions of Kidney.
5. Functions of Sertoli cells.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 1023]

**OCTOBER 2023
(AUGUST 2023 EXAM SESSION)**

Sub. Code: 4701

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

**FIRST YEAR
PAPER I – ANATOMY & PHYSIOLOGY
Q.P. Code: 664701**

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

**SECTION - A
(ANATOMY)**

I. Elaborate on: **(1 x 12 = 12)**

1. List out the Endocrine Glands in the body and describe the Thyroid Gland under the following headings:
 - a) External features
 - b) Capsules of Thyroid Gland
 - c) Blood supply
 - d) Applied aspects with Nursing implications.

II. Write notes on: **(3 x 5 = 15)**

1. Stomach.
2. Spinal cord.
3. Coronary circulation.

III. Short answers on: **(5 x 2 = 10)**

1. Name the layers of Uterus.
2. Name any two branches of Abdominal aorta.
3. Mention the major openings of Diaphragm with its content.
4. Name the content of Cubital fossa.
5. Enumerate the contents of Spermatic cord.

**SECTION - B
(PHYSIOLOGY)**

I. Elaborate on: **(1 x 13 = 13)**

1. Define Blood Pressure. Explain the factors regulating Blood Pressure in detail.
Add a note on Hypertension.

II. Write notes on: **(3 x 5 = 15)**

1. Hearts sounds.
2. Transport of Oxygen.
3. Functions of Saliva.

III. Short answers on: **(5 x 2 = 10)**

1. Define Sarcomere.
2. Types of Nephron and its functions.
3. Two functions of Cerebellum.
4. Name the Plasma proteins.
5. Placental hormones.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 0224]

FEBRUARY 2024

Sub. Code: 4701

B.Sc. (Nursing) DEGREE EXAMINATION
(Regulation 2006-2007 onwards)

FIRST YEAR

PAPER I – ANATOMY & PHYSIOLOGY

Q.P. Code: 664701

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

SECTION - A
(ANATOMY)

I. Elaborate on: (1 x 12 = 12)

1. Enumerate the parts of Female reproductive system. Describe about Uterus in detail.

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

1. Cubital Fossa.
2. Testis.
3. Right atrium of heart.

III. Short answers on: (5 x 2 = 10)

1. Classification of Epithelium with examples.
2. Coronary arteries.
3. Different sites of Intra muscular injection.
4. Mention the parts of small intestine.
5. Name the types of joints with example.

SECTION - B
(PHYSIOLOGY)

I. Elaborate on: (1 x 13 = 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: (3 x 5 = 15)

1. Composition and functions of cerebrospinal fluid.
2. Functions of skin.
3. Explain the electrical events taking place in neuromuscular junction.

III. Short answers on: (5 x 2 = 10)

1. What is Hemophilia? Mention its types.
2. Pulse.
3. Write the difference between Dwarfism and Gigantism.
4. Two functions of Kidney.
5. What is Myopia and how it can be corrected.
