

DIPLOMA IN MEDICAL RECORD SCIENCE**FIRST YEAR****PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE***Q.P. Code : 841302***Time : Three Hours****Maximum : 100 marks****Answer ALL questions in the same order.****I. Elaborate on:**

	Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|---|---------|----|
| 1. Describe the Structure and functions of the diaphragm. | 7 | 20 min. | 10 |
| 2. Formation of urine and mechanism of micturition. | 7 | 20 min. | 10 |
| 3. Draw a diagram of the abdominal planes and explain the organs in each quadrant. | 7 | 20 min. | 10 |

II. Write notes on:

- | | | | |
|---------------------------|---|--------|---|
| 1. Pubertal changes. | 4 | 9 min. | 5 |
| 2. Describe inflammation. | 4 | 9 min. | 5 |
| 3. Functions of liver. | 4 | 9 min. | 5 |
| 4. Thoracic duct. | 4 | 9 min. | 5 |
| 5. Islets of Langerhans. | 4 | 9 min. | 5 |
| 6. Homeostasis. | 4 | 9 min. | 5 |
| 7. Cardiac muscle. | 4 | 9 min. | 5 |
| 8. Types of circulations. | 4 | 9 min. | 5 |
| 9. Enzymes. | 4 | 9 min. | 5 |
| 10. Blood grouping. | 4 | 9 min. | 5 |

III. Short Answers on:

- | | | | |
|--------------------------------|---|--------|---|
| 1. Branches of Microbiology. | 1 | 3 min. | 2 |
| 2. Composition of urine. | 1 | 3 min. | 2 |
| 3. Pelvic cavity. | 1 | 3 min. | 2 |
| 4. Salivary glands. | 1 | 3 min. | 2 |
| 5. Functions of lymph. | 1 | 3 min. | 2 |
| 6. Dual blood supply to lungs. | 1 | 3 min. | 2 |
| 7. Pulse rate. | 1 | 3 min. | 2 |
| 8. Deafness. | 1 | 3 min. | 2 |
| 9. Functions of cerebrum. | 1 | 3 min. | 2 |
| 10. Lactation. | 1 | 3 min. | 2 |

[LC 0212]

FEBRUARY 2013

Sub. Code: 1302

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code : 841302

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Draw a diagram of digestive system .Mention the parts. Explain absorption.
2. What are the male reproductive organs .Explain the semen formation.
3. Describe the vertebral column and its functions.

II. Write notes on:

(10 x 5 = 50)

1. Odema.
2. Cerebro spinal fluid and its functions.
3. Pleura.
4. Cardiac cycle.
5. Membranes.
6. Fractures of bones.
7. Small intestine.
8. Para thyroid gland.
9. Functions of the skin.
10. Spread of tumour.

III. Short Answers on:

(10 x 2 = 20)

1. Mention viral infections.
2. Joints of upper limb.
3. Thrombus.
4. Functions of bile.
5. Lymph node.
6. Erythrocyte sedimentation rate.
7. Urethritis.
8. Menopause.
9. Vital capacity.
10. Cranial nerves.

[LD 0212]

AUGUST 2013

Sub. Code: 1302

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code : 841302

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on: **(3 x 10 = 30)**

1. Name the various organs of the Male genital system . Write in detail about the location, parts and functions of the Prostate.
2. Describe the structure of the Eye with the help of a neat diagram.
Add a detailed note on Retina.
3. Name the various organs of the urinary system. Describe the parts and functions of the kidney in detail.

II. Write notes on: **(10 x 5 = 50)**

1. Aqueous humour.
2. Salivary glands.
3. Shoulder joint.
4. Neuron.
5. Liver.
6. Deltoid muscle.
7. Pelvis.
8. Arterial supply of the Heart.
9. Cranial Nerves.
10. Placental hormones.

III. Short Answers on: **(10 x 2 = 20)**

1. Name any two Anterior pituitary hormones.
2. What is Cholelithiasis?
3. What is the normal value of Creatinine?
4. What is cystoscopy?
5. Define Arteriosclerosis.
6. What are the tests that are likely to be done in Typhoid fever?
7. Define Myopia.
8. What is EEG?
9. Name any two long bones.
10. Define pyelonephritis.

[LE 0212]

FEBRUARY 2014

Sub. Code: 1302

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code : 841302

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe the structure of the Skin with a neat labeled diagram. What are the functions of the skin?
2. Name the various organs of the digestive tract. Write in detail about the Stomach and its functions.
3. Enumerate the clotting factors. Write a note on bleeding disorders.

II. Write notes on:

(10 x 5 = 50)

1. Pancreas.
2. Cerebellum.
3. Placenta.
4. Spirometer.
5. Ball & socket joint.
6. Humerus.
7. Ovaries.
8. Ascending tracts of the Brain.
9. Pituitary gland.
10. Chambers of the Heart.

III. Short Answers on:

(10 x 2 = 20)

1. What is the normal Cardiac output?
2. Mention any two hazards of mismatched blood transfusion.
3. What is Normal value of Glomerular filtration rate?
4. Valves of the heart.
5. What are the tests that are likely to be done in pulmonary tuberculosis?
6. What are the normal values of ESR?
7. Define Dyspnoea.
8. What is Mastectomy?
9. Define Dysphagia.
10. What is the part of the body involved in "Blepharitis"?

[LF 0212]

AUGUST 2014

Sub. Code: 1302

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code : 841302

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe about lungs in detail with a neat diagram.
2. Explain cerebrum in detail with a neat diagram.
3. Explain kidneys with the help of a neat diagram.

II. Write notes on:

(10 x 5 = 50)

1. Tonsil.
2. Parts of the stomach.
3. Pleura.
4. Salivary glands.
5. Gall bladder.
6. Thyroid glands.
7. Diabetes.
8. Pneumonia.
9. Sympathetic / Para sympathetic nerves.
10. Eye ball.

III. Short Answers on:

(10 x 2 = 20)

1. What is sclera? What is staphyloma?
2. What is Xerophthalmia and Keratomalacia?
3. Define Nephron.
4. What are ureters?
5. Bleeding Time/Clotting time.
6. Islets of Langerhans.
7. What is Bile?
8. Describe Rectum.
9. What is Peritoneum? What are its functions?
10. Draw a neat diagram of the stomach and label its parts.

[LH 0815]

AUGUST 2015

Sub. Code: 1302

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code: 841302

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. What is a joint? Classify joints? Write about hip joint.
2. Draw a labeled diagram of the kidney. Describe the functions of kidney.
3. Describe the composition and function of blood .

II. Write notes on:

(10 x 5 = 50)

1. Stomach.
2. Digestion of carbohydrates.
3. Bile.
4. Salivary glands.
5. Diaphragm.
6. Functions of brain.
7. Pituitary gland.
8. Skin.
9. Cardiac muscle.
10. Spleen.

III. Short Answers on:

(10 x 2 = 20)

1. What is the normal blood pressure value in adults?
2. Name the chambers of the heart.
3. Mention the blood supply of lungs.
4. Name any two functions of the nose.
5. What are the hormones secreted by the pancreas?
6. What is the normal fasting blood sugar value in an adult?
7. Name any four functions of the liver.
8. Name the joints formed by the thigh bone (femur).
9. Name any four parts of the male reproductive system.
10. Name any two features of smooth muscles.

[LI 0216]

FEBRUARY 2016

Sub. Code: 1302

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code: 841302

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. Draw a labeled diagram of the respiratory system. Explain the mechanism of respiration.
2. Name the parts / divisions of the brain. Add a note on its functions.
3. Draw a labeled diagram of the female reproductive system.

II. Write notes on:

(10 x 5 = 50)

1. Liver.
2. Digestion of protein.
3. Autonomic nervous system.
4. Classification of bones.
5. Blood supply to the heart (Coronary circulation).
6. Urinary bladder.
7. Functions of cerebrospinal fluid.
8. Pulmonary circulation.
9. Composition and functions of lymph.
10. Leukocytes (White blood cells).

III. Short Answers on:

(10 x 2 = 20)

1. Functions of platelets.
2. What is cardiac output?
3. Name any two branches of the aorta.
4. Functions of pharynx.
5. Name any two hormones secreted by the adrenal gland.
6. What is goitre?
7. Name the parts of a long bone.
8. Name any four parts of the male reproductive system.
9. Name two muscles that act on the shoulder joint.
10. What is hypertension?

[LJ 0816]

AUGUST 2016

Sub. Code : 1302

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code: 841302

Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

I. Elaborate on:

(3 x 10 = 30)

1. Draw labeled diagram of the digestive system. Explain the functions of liver.
2. Name various endocrine glands and the hormones secreted by each gland.
3. Draw a diagram of various abdominal quadrants. Label them.
Name one organ present in each quadrant.

II. Write notes on:

(10 x 5 = 50)

1. Structure and function of Nephron.
2. Name various parts of lymphatic system and its function.
3. Systemic circulation.
4. Hip joint.
5. Urinary bladder.
6. Name two important blood groups you know. Mention the use of blood groups.
7. Mechanism of breathing.
8. Diaphragm.
9. Tongue.
10. Haemostasis.

III. Short answers on:

(10 x 2 = 20)

1. What is the normal adult blood pressure?
2. Name two features of Cardiac muscle.
3. Name two functions of spleen.
4. Name the parts of pharynx and mention one function of each.
5. Patella.
6. Function of bile.
7. What is vital capacity?
8. Aorta.
9. Name parts of a long bone.
10. Name two complications of Diabetes mellitus.

DIPLOMA IN MEDICAL RECORD SCIENCE
FIRST YEAR
PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code: 841302

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Write about the composition and functions of blood.
2. Draw a labelled diagram of the heart. Write about pulmonary circulation.
3. Name the muscles of respiration. Explain the mechanism of breathing.

II. Write notes on:

(10 x 5 = 50)

1. Pancreas – Digestive and Endocrine functions.
2. Parts of the urinary system. Functions of ureter.
3. Medulla oblongata.
4. Formation of urine.
5. Name the various cranial nerves.
6. Symphysis pubis.
7. Gastric juice.
8. What are blood groups? What are the uses of blood groups?
9. Name the hormones secreted by the thyroid gland. Add a note on calcium regulation in the blood.
10. Knee joint.

III. Short answers on:

(10 x 2 = 20)

1. What is the normal adult blood pressure value?
2. Name any two hormones that increase blood sugar levels.
3. Name the parts of female reproductive system.
4. Define cardiac output.
5. Name the parts of large intestine.
6. Mention four functions of white blood cells.
7. What is tidal volume?
8. Name two features of skeletal muscle.
9. Write two features of gigantism.
10. Name two functions of bone.

**DIPLOMA IN MEDICAL RECORD SCIENCE
FIRST YEAR
PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE**

Q.P. Code: 841302

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Write a brief note on digestive system with a diagram and label its parts.
2. Elaborate the formation of urine and mechanism of micturition.
3. Draw a diagram of abdominal planes and explain organs in each quadrant.

II. Write notes on:

(10 x 5 = 50)

1. Explain the functions of kidney.
2. Name the bones of upper extremity and lower extremity.
3. Mechanism of respiration.
4. Types of muscles.
5. Menstrual cycle.
6. Write a brief note on functions of bones.
7. Blood clot mechanism.
8. Name the hormones that are secreted by endocrine gland.
9. Name any five body enzymes and their functions.
10. Homeostasis.

III. Short answers on:

(10 x 2 = 20)

1. Composition of urine.
2. What is the normal Heart rate and name the instrument used to measure the heart rate?
3. Menopause.
4. Define a cell.
5. Name any 2 long bones.
6. What is meant by dysphagia?
7. Draw a neat diagram of kidney and label its parts.
8. Write down the functions of Human brain.
9. Define mastectomy.
10. Explain about smooth muscle?

[LP 0819]

AUGUST 2019

Sub. Code: 1302

**DIPLOMA IN MEDICAL RECORD SCIENCE
FIRST YEAR
PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE**

Q.P. Code: 841302

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. What are all the female reproductive organs? Draw a neat diagram and label the parts and explain in detail.
2. Describe the vertebral column and its functions.
3. Explain the process of blood clotting and give some common blood disorders.

II. Write notes on:

(10 x 5 = 50)

1. What is spirometry?
2. Name the muscles of the face.
3. What are all the types of joints? Explain it with an example.
4. What are aqueous humour and vitreous humour?
5. Draw a structure of neuron and label its parts.
6. Explain the chambers of a heart.
7. How the digestions of carbohydrate occur?
8. Mention any five functions of human brain.
9. Types of diabetes mellitus.
10. Components of blood.

III. Short answers on:

(10 x 2 = 20)

1. List out the hormones that are secreted by thyroid gland.
2. What is the normal range for blood pressure and name the instrument that is used to measure?
3. Write down the functions of spleen.
4. Draw a neat diagram of stomach and label its parts.
5. Write down the functions of CSF (Cerebrospinal Fluid).
6. Explain about the features of smooth muscle.
7. What is peritoneum? Write down its functions?
8. Definition for: (a) Dysphagia (b) Pyrexia.
9. Name some common diseases that are associated with stomach.
10. Name any five body organs and write down its functions.

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

[AHS 0321]

MARCH 2021

Sub. Code: 1302

(AUGUST 2020 EXAM SESSION)

DIPLOMA IN MEDICAL RECORD SCIENCE

FIRST YEAR (Regulation 2015-2016 & 2018-2019)

PAPER II – ANATOMY, PHYSIOLOGY AND LAB SCIENCE

Q.P. Code : 841302

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Write a note on Respiratory system. Draw and label a neat diagram of Lungs.
2. Elaborate the different phases in Menstruation cycle.
3. What is a Balanced Diet? Explain all essential nutrients.

II. Write notes on:

(10 x 5 = 50)

1. Hinge joint.
2. Draw and label a neat diagram of Vertebral column.
3. Chambers of Heart.
4. Clotting factors.
5. Types of Joints.
6. Functions of Bones.
7. Carbohydrate.
8. Various Abdominal Quadrants.
9. Smooth Muscle.
10. Diaphragm.

III. Short answers on:

(10 x 2 = 20)

1. Draw a neat diagram of Stomach and label its parts.
2. List out the hormones secreted by Posterior Lobe of Pituitary gland.
3. Urinary bladder.
4. Functions of Spleen.
5. Muscles of upper extremity.
6. Insulin.
7. Define Dyspnea and Dysphagia.
8. Open fracture.
9. Functions of Lymph nodes.
10. Minerals.
