

MBBS - FIRST PROF ANNUAL EXAMINATION JULY, 2015**(Anatomy – A; Paper Code- 0101101).**

Time : 03 Hrs

Max Marks 50

Instructions:

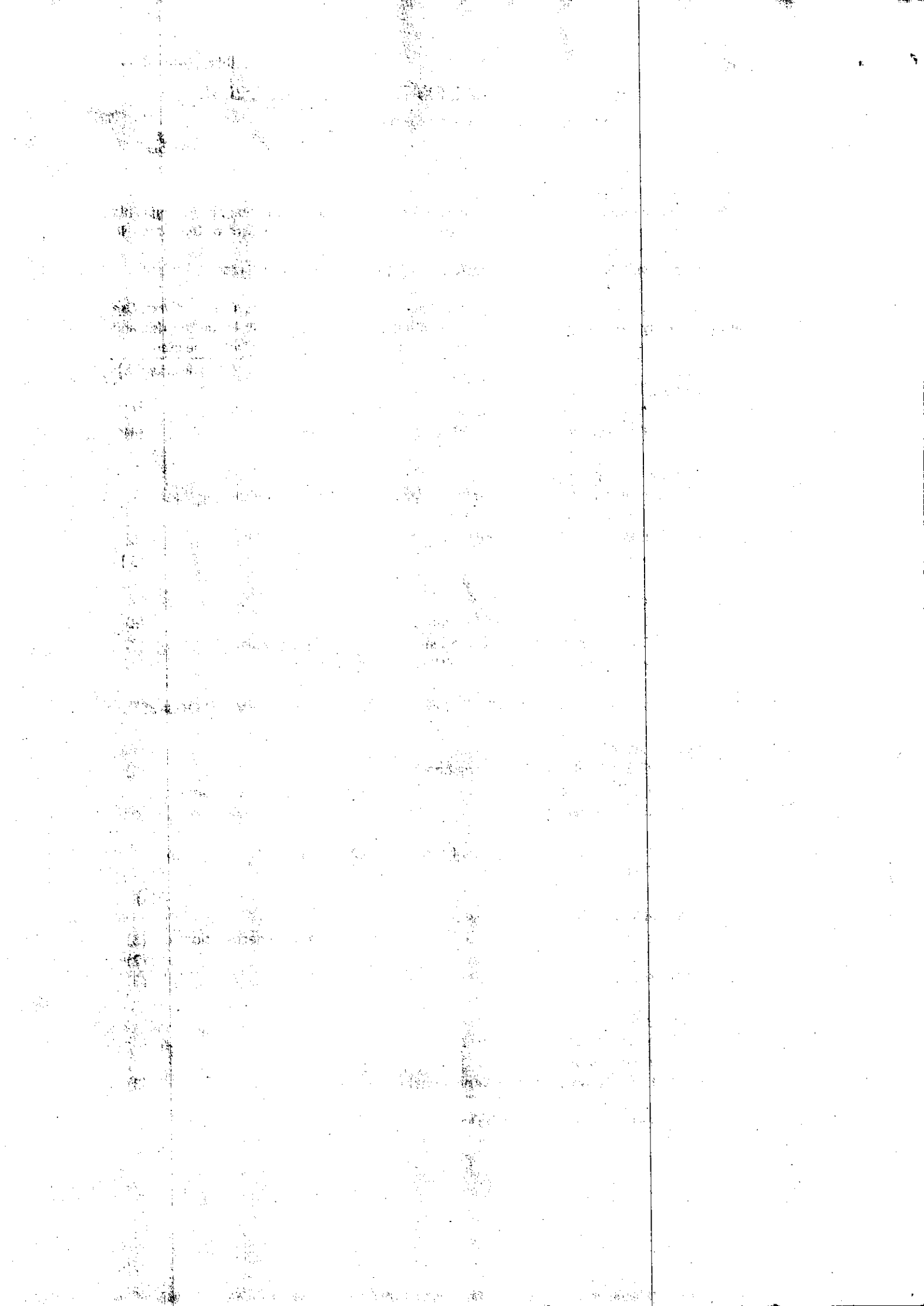
- I. Write your roll no. on the question paper;
- II. Candidates should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint will be entertained thereafter;
- III. Attempt all questions. Parts of a question should be attempted in the sequential order;
- IV. Draw the diagram wherever required;
- V. Question paper consists of two parts-- Part- I and Part- II. Max. Marks for each part is 25 marks. Use separate answer-book for each part. Any mistake in this regard shall be at the risk and responsibility of the examinee and no complaint in this regard will be entertained after the exam.

Part-I**(Max. Marks=25)**

- Q.1 Write in brief about :-
- a) Nucleus, course, branches and applied anatomy of Facial Nerve. (4)
 - b) Gross anatomy, Nerve supply and Histology of Tongue (4)
- Q.2 Describe briefly :-
- a) Movement of Temporomandibular joint with muscles producing these movements. (3)
 - b) Inlet of the Larynx ; and (3)
 - c) Nasal Septum. (3)
- Q.3 Write short notes on :-
- a) Layers of Scalp with applied importance. (3)
 - b) Structures embeded in the substance of the Parotid gland (2)
 - c) Blood supply of long bone with clinical significance (3)

Part-II**(Max. Marks=25)**

- Q.4 Describe in short:
- a) Elbow joint under following headings:- (4)
 - i) Bones forming joint;
 - ii) Ligaments;
 - iii) Movements; and
 - iv) Applied Anatomy
 - b) Formation and circulation of cerebrospinal fluid (CSF) . Add a note on hydrocephalus (4)
- Q.5 Draw well labeled diagram to show :-
- a) Transverse section of Medulla at the level of Pyramidal decussation; (3)
 - b) Structure of spermatozoa; and (2)
 - c) Boundaries & contents of cubital Fossa. (3)
- Q.6 Write in brief :-
- a) Microanatomy of Hyaline cartilage; (3)
 - b) Deltoid Muscle; and (3)
 - d) Distribution of Median Nerve in hand. (3)



Serial No:-15110111 B

Roll No:-

MBBS-1st PROF.EXAMINATION-JULY 2015
(ANATOMY-B, PAPER CODE: - 0101101)

Time:- 03 hrs.

Maximum Marks: 50

Instructions:

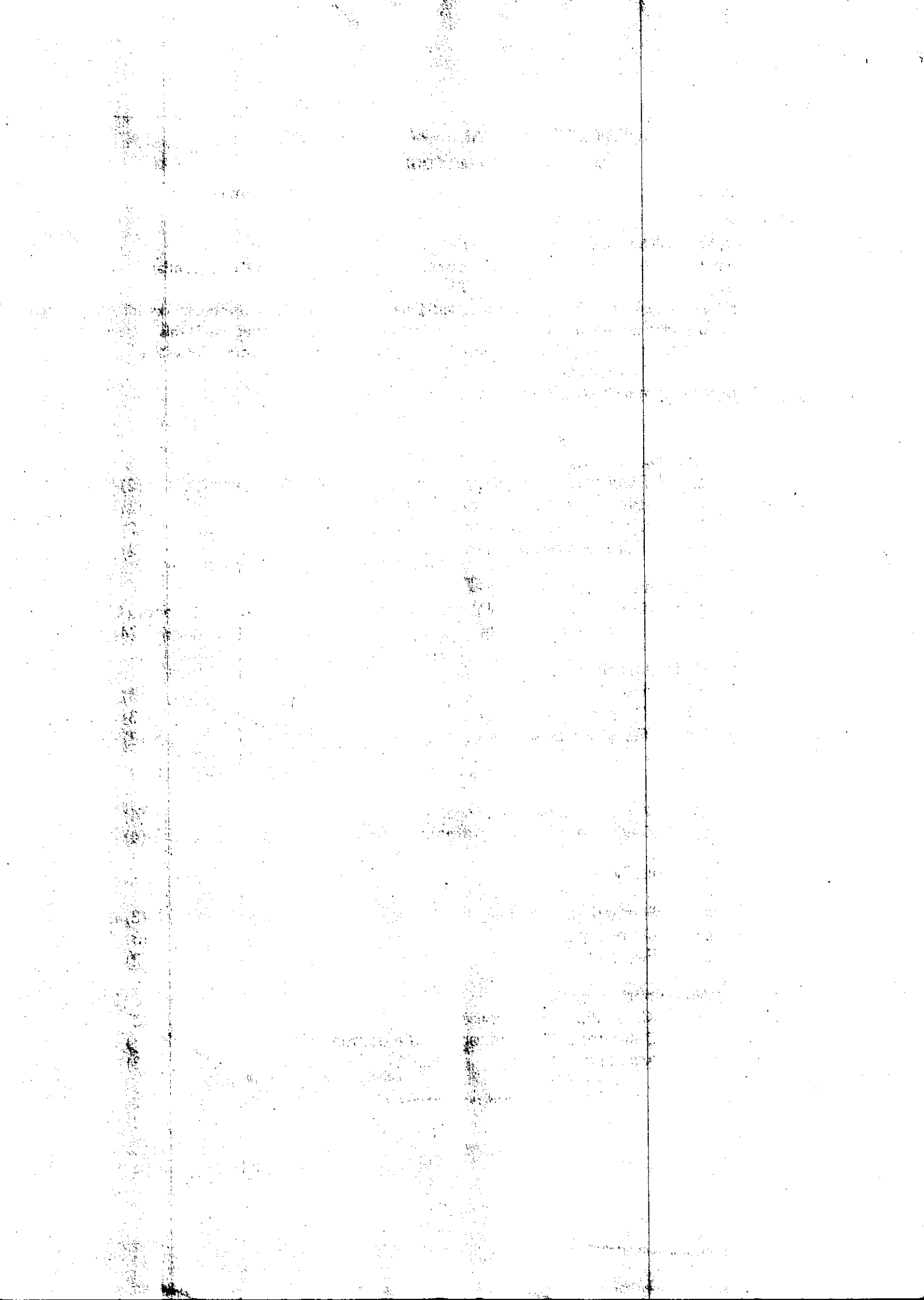
1. Write Your Roll No. on the Question Paper.
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3. The Question Paper consists of two parts: Part-1 and Part-II having 25 maximum marks for each. Use separate answer- book for Part-1 & Part-II respectively. Any mistake in this regard Will be at the risk and the responsibility of the examinee and no complaint will be entertained in this regard after the examination
4. Draw the diagram wherever required.

(PART-I)

- Q.1 Enumerate only :-
- a) Structures passing through openings in the diaphragm. (2)
 - b) Branches of abdominal aorta. (2)
 - c) Derrivatives of Mesonephric duct. (2)
 - d) Parts of male urethera. (2)
- Q.2 Write in brief about -
- a) Gross anatomy ,relations and development of urinary bladder.(4)
 - b) Formation contents and applied anatomy of rectus sheath. (4)
- Q.3 Write short notes on :-
- a) Histology of skin. (3)
 - b) Deep perineal pouch . (3)
 - c) Relations of stomach. (3)

(PART-II)

- Q.4
- a) Venous drainage of lower limb. (4)
 - b) Development of Inter-atrial septum (4)
- Q.5 Write briefly on :-
- a) Hamstring muscles. (3)
 - b) Coronary arteries (3)
 - c) Femoral hernia (2)
- Q.6 Wrire short notes on :-
- a) Klinefelter's Syndrome. (3)
 - b) Cutaneous Nerve supply of the dorsum of foot. (3)
 - c) Arch of aorta (3)



MBBS-1st PROF.EXAMINATION-JULY 2015**(PHYSIOLOGY-A, PAPER CODE: - 0101102)****Time: - 03 hrs.****Maximum Marks: 50****Instructions:**

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2. Attempt all the question and parts of a question should be attempted in the sequential order.
3. The Question Paper consists of two parts: Part-1 and Part-II having 25 maximum marks for each. . Use separate answer- book for Part-1 & Part-II respectively. Any mistake in this regard Will be at the risk and the responsibility of the examinee and no complaint will be entertained in this regard after the examination
4. Draw the diagram wherever required.

PART-1**Q.1 Describe briefly:-**

- a) Rh blood group system with its importance (4)
- b) Describe the functions of Plasma Proteins (3)
- c) Fate of Haemoglobin following haemolysis (2)

Q.2 Write short notes on:

- a) Define cardiac output. Explain one method of measuring it. (3)
- b) Short term regulation of arterial blood pressure (3)
- c) What is windkessel effect? What is its importance ? (2)

Q.3 Discuss the following

- a) Cell mediated immunity (3)
- b) Ionic basis of pace maker potential (3)
- c) Body response to hot weather (2)

PART-II

Q.4 Enumerate the hormones of anterior pituitary. Describe the functions of growth hormone. Add a note on acromegaly and gigantism. (2+4+2)

Q.5 Write short notes on :

- a) Puberty (3)
- b) Spermatogenesis (3)
- c) Cushing syndrome (3)

Q.6 Describe in brief:

- a) Chemical regulation of respiration (4)
- b) Oxygen-Haemoglobin dissociation curve (4)

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Serial No:-15110112 B

Roll No:- _____

MBBS-1st PROF.EXAMINATION-JULY 2015
(PHYSIOLOGY-B, PAPER CODE: - 0101102)

Time:- 03 hrs.

Maximum Marks: 50

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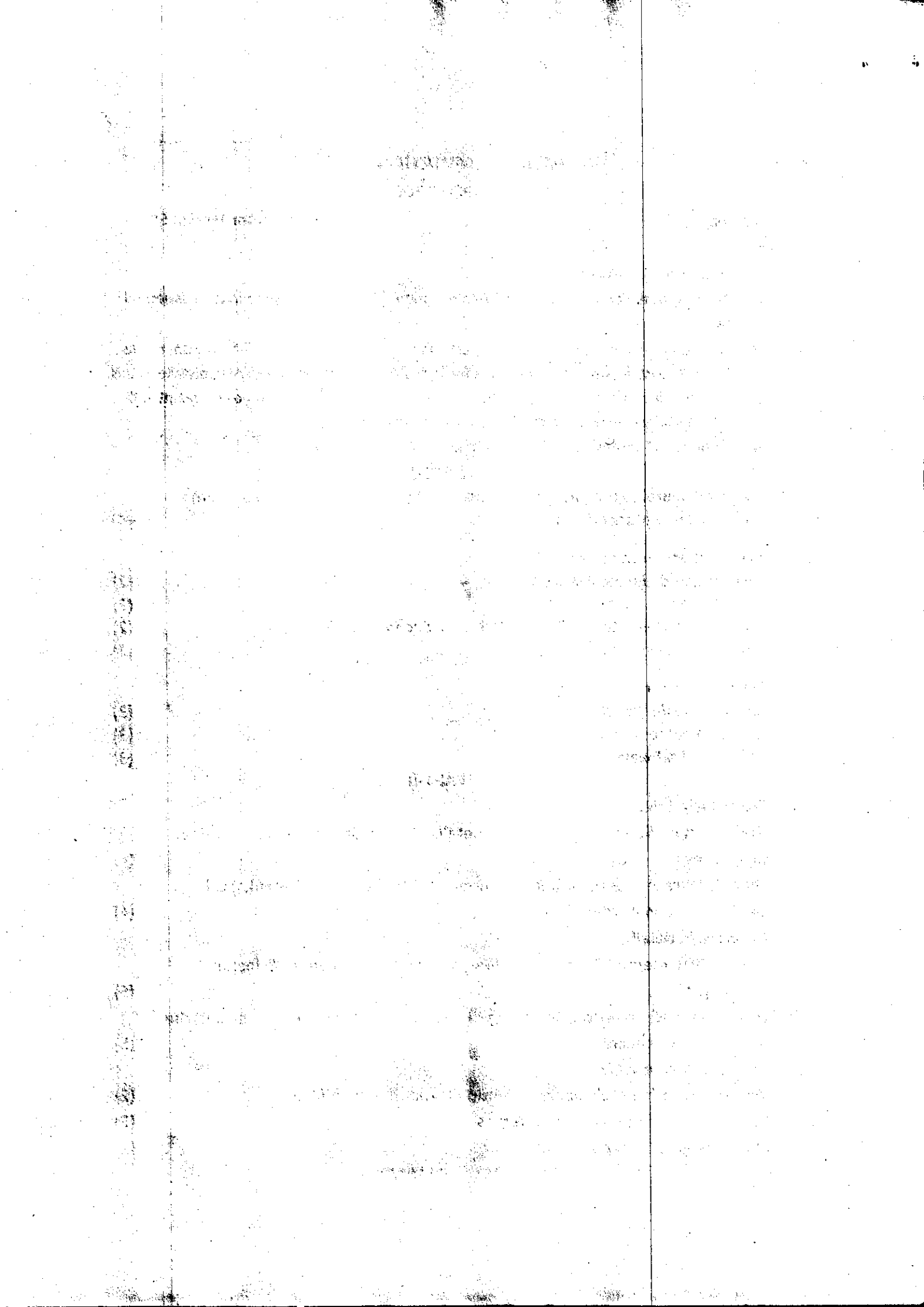
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PART-1

- Q.1** Describe neural circuit with in cerebella cortex. Give the role of cerebellum in control of voluntary movements. (4+4)
- Q.2 Differentiate between the following :**
- a) Chemical and electrical synapse. (2)
 - b) A δ fiber and c fiber nociceptors. (2)
 - c) Classical decerebrate Rigidity and Ischemic decerbrate Rigidity. (2)
 - d) Spasticity and rigidity. (2)
- Q.3 Write notes on :**
- a) Conductive deafness. (3)
 - b) Colour blindness. (3)
 - c) Olfactory Pathways. (3)

PART-II

- Q.4 Describe in brief :**
- a) Define action potential and give the details of its origin, phases, ionic basis & properties (4)
 - b) What is Extracellular recording of action potential? Give the physiological significance and its clinical use. (4)
- Q.5 Describe in detail :**
- a) Define GFR. Mention its normal values. Explain the mechanism & factor affecting it. (6)
 - b) Describe the Na^+ reabsorption along the various parts of the Nephron and the factors which regulate it. (5)
- Q.6 Differentiate between :**
- a) Visceral smooth muscle fibers & multiunit smooth musclefibers (2)
 - b) Myelinated and Unmyelinated Nerves (2)
 - c) Phases of gastric juice secretion. (2)



Serial No:-15110113 A

Roll No:-

MBBS-1st PROF.EXAMINATION-JULY 2015
(BIOCHEMISTRY-A, PAPER CODE:- 0101103)

Time:- 03 hrs.

Maximum Marks: 50

Instructions:

1. Write Your Roll No. on the Question Paper.
2. Attempt all the question and parts of a question should be attempted in the sequential order.
3. The Question Paper consists of two parts: Part-1 and Part-II having 25 maximum marks for each. Use separate answer- book for Part-1 & Part-II respectively. Any mistake in this regard Will be at the risk and the responsibility of the examinee and no complaint will be entertained in this regard after the examination
4. Draw the diagram wherever required.

PART-1

Q.1 Write short note on:

- | | |
|--|---|
| a) Cell fractionation and markers of cell organelle. | 2 |
| b) Body buffers | 2 |
| c) Lysosomes | 2 |

Q.2 Write in detail:

- | | |
|--|---|
| a) Describe $F_0 F_1$ Complex and oxidative phosphorylation. | 5 |
| b) Enumerate plasma proteins and write in brief about their separation techniques. | 5 |

Q.3 Write in brief about:

- | | |
|---|---|
| a) Epimers and Anomers. Explain Mutarotation with examples. | 3 |
| b) Phospholipids | 3 |
| c) Hemoglobinopathies | 3 |

PART-II

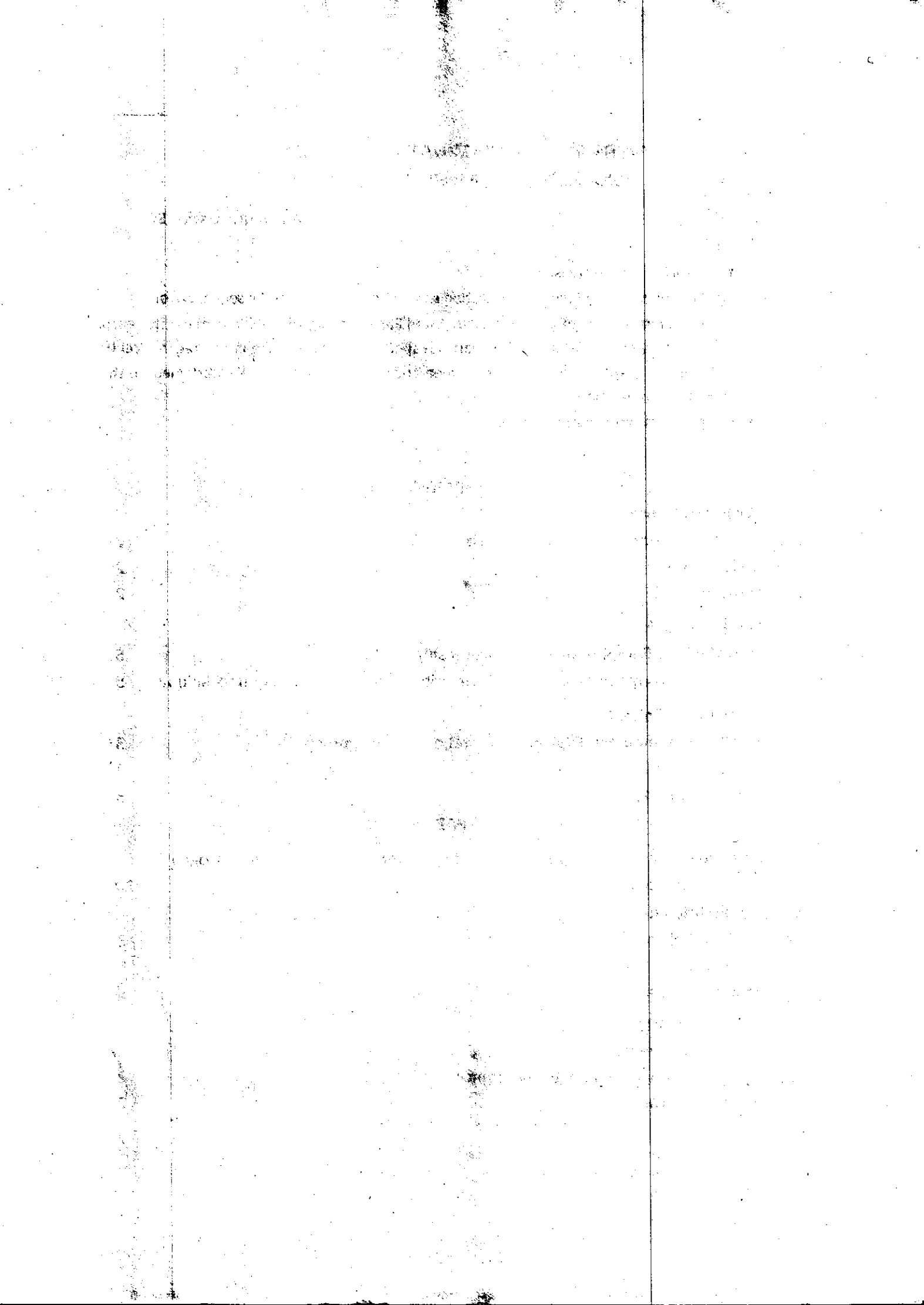
Q.4 Describe pathway and regulation of Glycogen metabolism. Tabulate Glycogen storage disorders. 10

Q.5 Explain briefly:-

- | | |
|--------------------|---|
| a) LDL Metabolism. | 3 |
| b) Fatty Liver | 3 |
| c) Hemocystinuria | 3 |

Q.6 Write short notes on following:-

- | | |
|---|---|
| a) Lysch nyhan syndrome | 2 |
| b) Glycated hemoglobin and its importance | 2 |
| c) Cranitine shuttle | 2 |



Serial No:-15110113 B

Roll No:-

MBBS-1st PROF.EXAMINATION-JULY 2015
(BIOCHEMISTRY-B, PAPER CODE: - 0101103)

Time:- 03 hrs.

Maximum Marks: 50

Instructions:

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4. Draw the diagram wherever required.

PART-1

Q.1 Write in brief:

- a) tRNA and its functions (2.5)
- b) DNA Repair (2.5)
- c) PCR (2.5)
- d) Nucleosomes (2.5)

Q.2 Write short notes on :

- a) Reverse Transcriptase (3)
- b) Genomics (3)
- c) Regulation of cell cycle (3)

Q.3 Write briefly:

- a) Oncogenes (2)
- b) Insulin (2)
- c) Telomerase (2)

PART-II

Q.4 Describe on detail

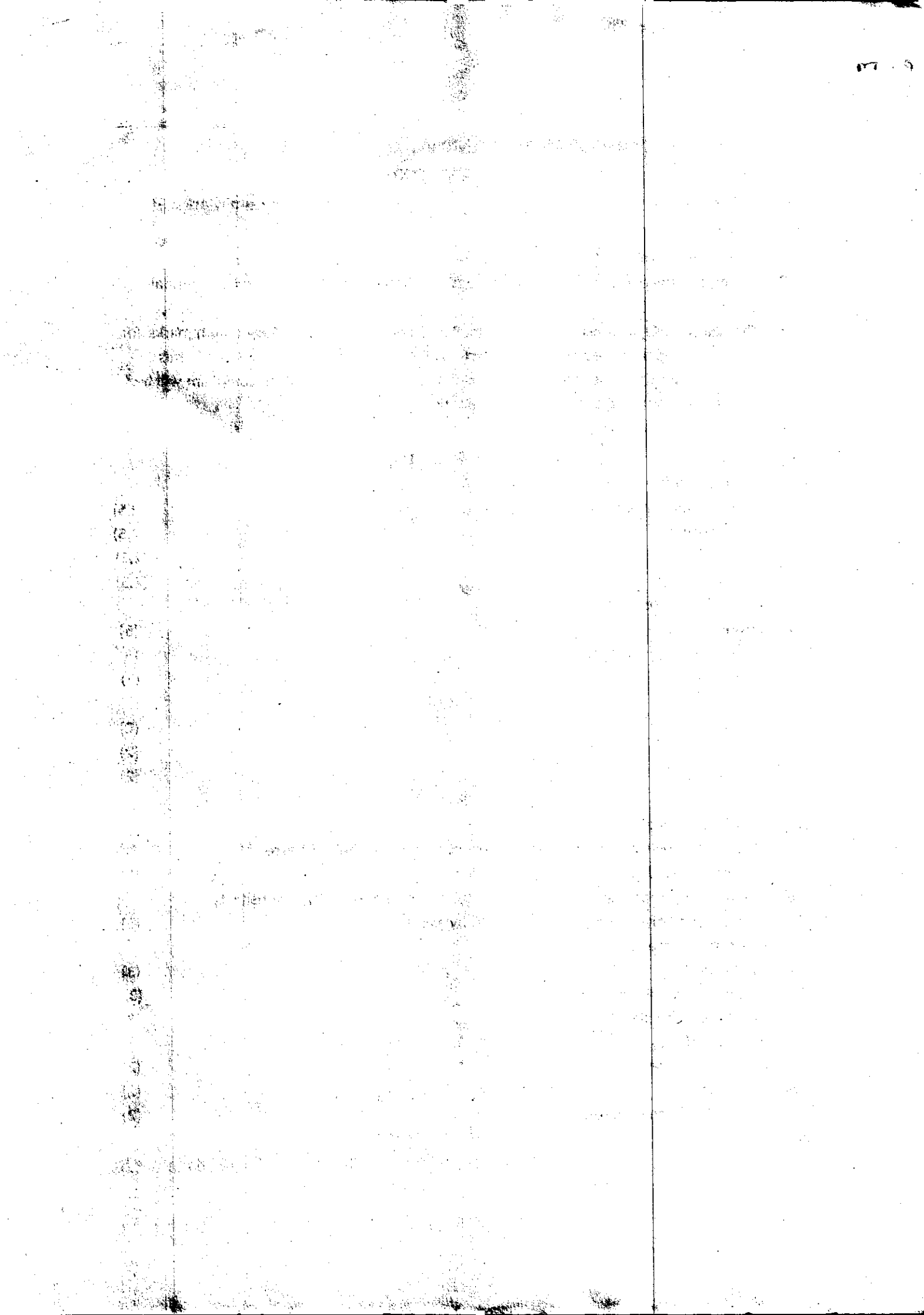
- a) Write the structure of an antibody molecule. Name the different classes of antibodies found in serum and give their functions. (5)
- b) What is hypersensitive reaction? Enumerate different types of hypersensitivity Reactions and give the mechanism of anaphylaxis. (5)

Q.5 Write short note on :

- a) Folate trap (3)
- b) Hashimoto thyroiditis. (3)
- c) Nutritional antioxidants. (3)

Q.6 Write briefly on:

- a) Welson's disease (2)
- b) Anion gap (2)
- c) Vitamin K-biochemical role (2)



Roll No.: _____

0101/1401(S)

MBBS – 1ST PROF. - SUPPLEMENTARY EXAM. – OCT. 2014
ANATOMY - A
Paper Code: 0101101

Time: 03 hrs.

Maximum Marks : 50

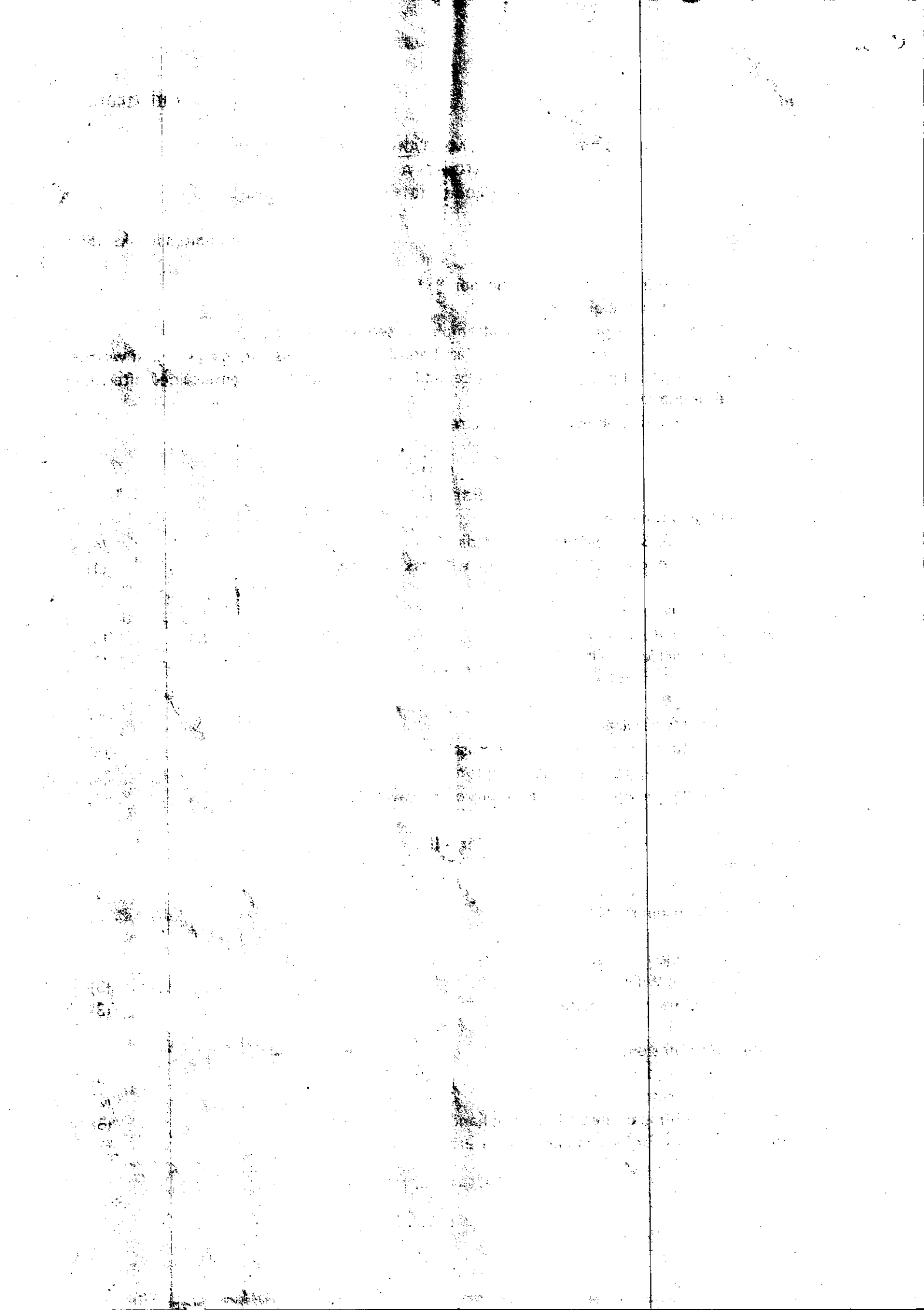
- Note:
1. Write your Roll No. on the Question Paper.
 2. Attempt all the questions.
 3. Parts of a question should be attempted in sequential order.
 4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
 5. Draw the diagram wherever required.

Part- I

- Q.1 Write in brief about:
- (a) Relations & histology of Parotid gland. (4)
 - (b) Gross Anatomy of Palatine Tonsil with its development. (4)
- Q.2 Describe briefly:
- (a) Cartilaginous joints. (3)
 - (b) Constrictor muscles of pharynx. (3)
 - (c) Innervation of Face. (3)
- Q.3 Draw only labeled diagrams to show:
- (a) Structures lying on hyoglossus muscle. (3)
 - (b) Arteries supplying the Nasal Septum. (2)
 - (c) Coronal section showing relations of the cavernous sinus. (3)

Part- II

- Q.4 Write in brief:
- (a) Abduction at the shoulder joint. (4)
 - (b) Corticospinal tract. (4)
- Q.5 Draw well-labeled diagrams to show:
- (a) Circle of Willis. (3)
 - (b) Structure of Spermatazoa. (3)
- Q.6 Write short notes on:
- (a) Synovial Joints. (3)
 - (b) Microanatomy of skin. (2)
 - (c) Distribution of median nerve in hand. (3)
 - (d) Derivatives of second pharyngeal arch. (3)



Roll No.: _____

0101/1402(S)

MBBS – 1ST PROF. - SUPPLEMENTARY EXAM. – OCT. 2014
ANATOMY - B
Paper Code: 0101101

Time: 03 hrs.

Maximum Marks : 50

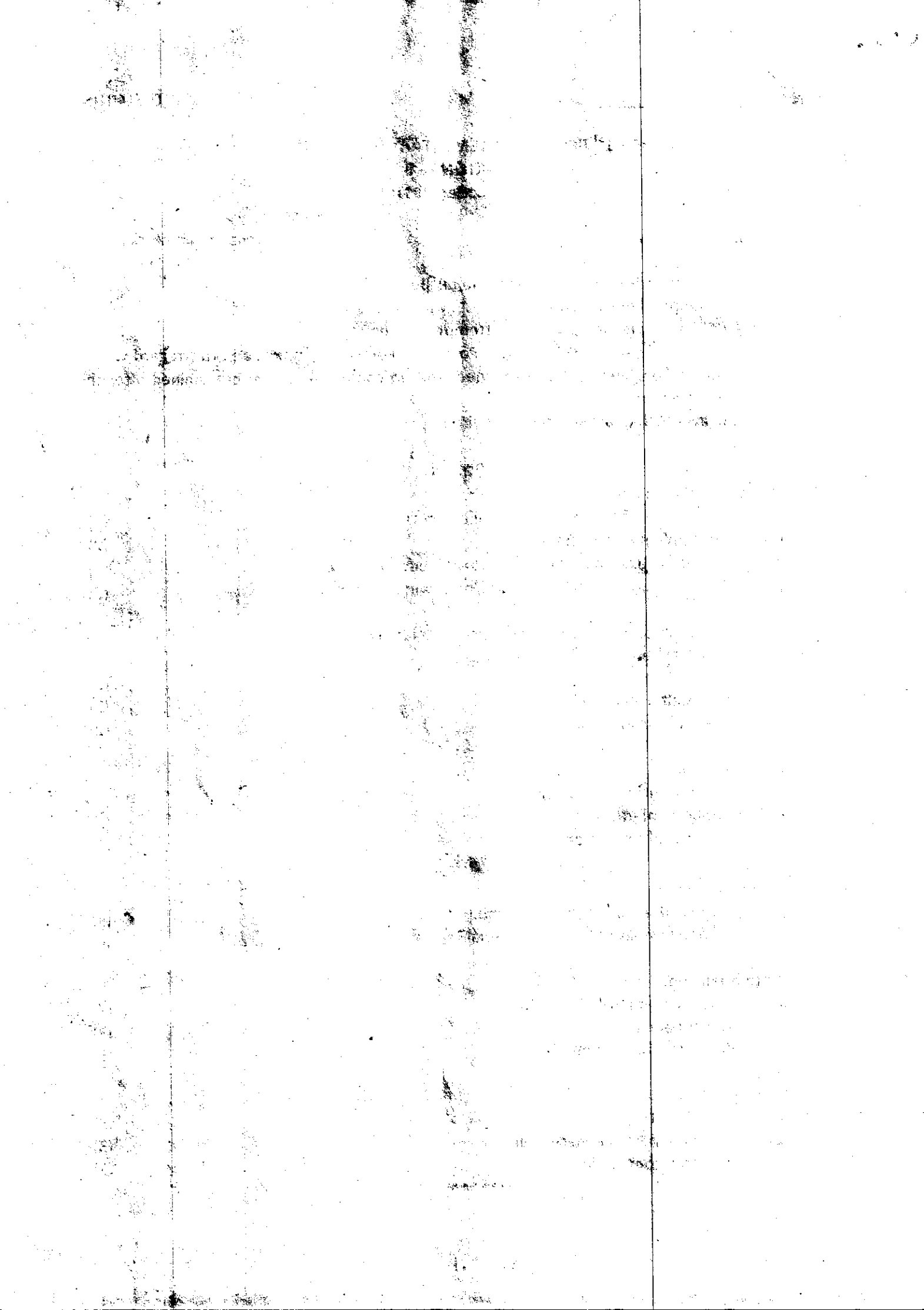
- Note: 1. Write your Roll No. on the Question Paper.
2. Attempt all the questions.
3. Parts of a question should be attempted in sequential order.
4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
5. Draw the diagram wherever required.

Part- I

- Q.1 Enumerate the following:
- (a) Derivatives of primary/ embryonic ectoderm. (2)
 - (b) Contents of rectus sheath. (2)
 - (c) Posterior relations of second part of duodenum. (2)
 - (d) Sites of anatomical constrictions/narrowings in ureter. (2)
- Q.2 Give the anatomical/ embryological basis of the following:
- (a) Femoral hernia. (2)
 - (b) Benign hypertrophy of prostate. (2)
 - (c) Congenital inguinal hernia. (2)
 - (d) Meckel's diverticulum. (2)
- Q.3 Write notes on:
- (a) Visceral surface of spleen. (3)
 - (b) Supports of uterus. (3)
 - (c) Portocaval circulation. (3)

Part- II

- Q.4 Discuss briefly:
- (a) Various drainage of the liver limb. (4)
 - (b) Development of the inter-arterial septum of heart (4)
- Q.5 Write briefly on:
- (a) Inversion and aversion of foot. (3)
 - (b) Arch of aorta. (3)
 - (c) Adductor magnus muscle. (3)
- Q.6 Write short notes on:
- (a) Fallot's Tetralogy. (3)
 - (b) Common peroneal nerve injury. (3)
 - (c) Microanatomy of lung. (2)



Roll No.: _____

0101/1403(S)

MBBS – 1ST PROF. - SUPPLEMENTARY EXAM. – OCT. 2014
PHYSIOLOGY - A
Paper Code: 0101102

Time: 03 hrs.

Maximum Marks : 50

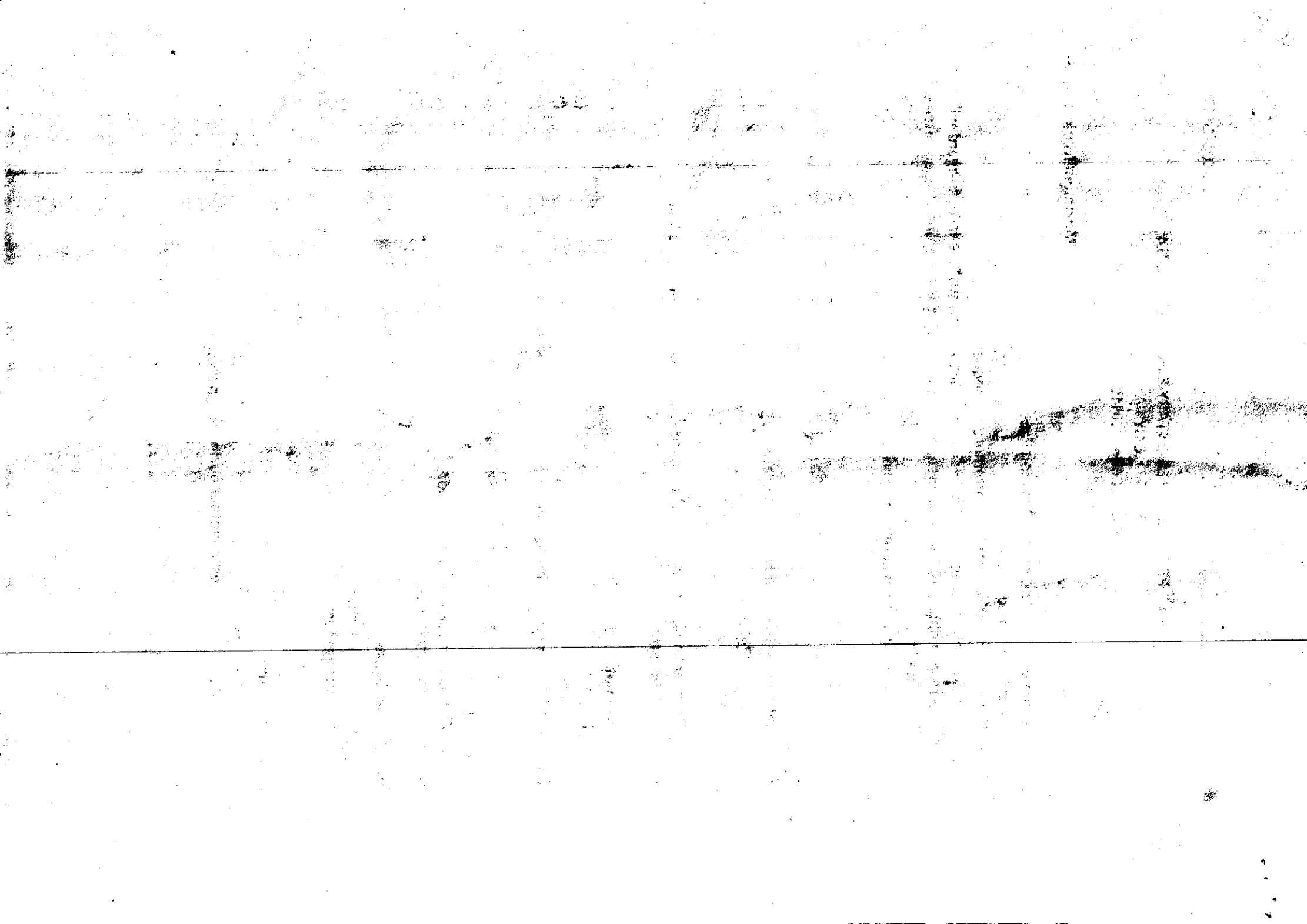
- Note:
1. Write your Roll No. on the Question Paper.
 2. Attempt all the questions.
 3. Parts of a question should be attempted in sequential order.
 4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
 5. Draw the diagram wherever required.

Part- I

- Q.1 Describe:
- (a) Intrinsic pathway of blood coagulation. (3)
 - (b) Types of jaundice. (3)
 - (c) Haemophilia. (2)
- Q.2
- (a) Describe measurement of cardiac output and factors affecting cardiac output (6)
 - (b) Baroreceptors. (3)
- Q.3 Write short notes on :
- (a) Normal E.C.G. (3)
 - (b) Rh factor. (2)
 - (c) Body's response to hot temperature. (3)

Part- II

- Q.4 Describe briefly:
- (a) Chemical regulation of respiration. (5)
 - (b) Periodic breathing. (3)
- Q.5 Write short notes on:
- (a) Cushing syndrome. (3)
 - (b) Spermatogenesis. (3)
 - (c) Surfactant. (3)
- Q.6 Describe in brief:
- (a) Actions of oxytocin. (4)
 - (b) Physiological changes in mother during pregnancy. (4)



Roll No.: _____

0101/1404(S)

MBBS - 1ST PROF. - SUPPLEMENTARY EXAM. – OCT. 2014
PHYSIOLOGY - B
Paper Code: 0101102

Time: 03 hrs.

Maximum Marks : 50

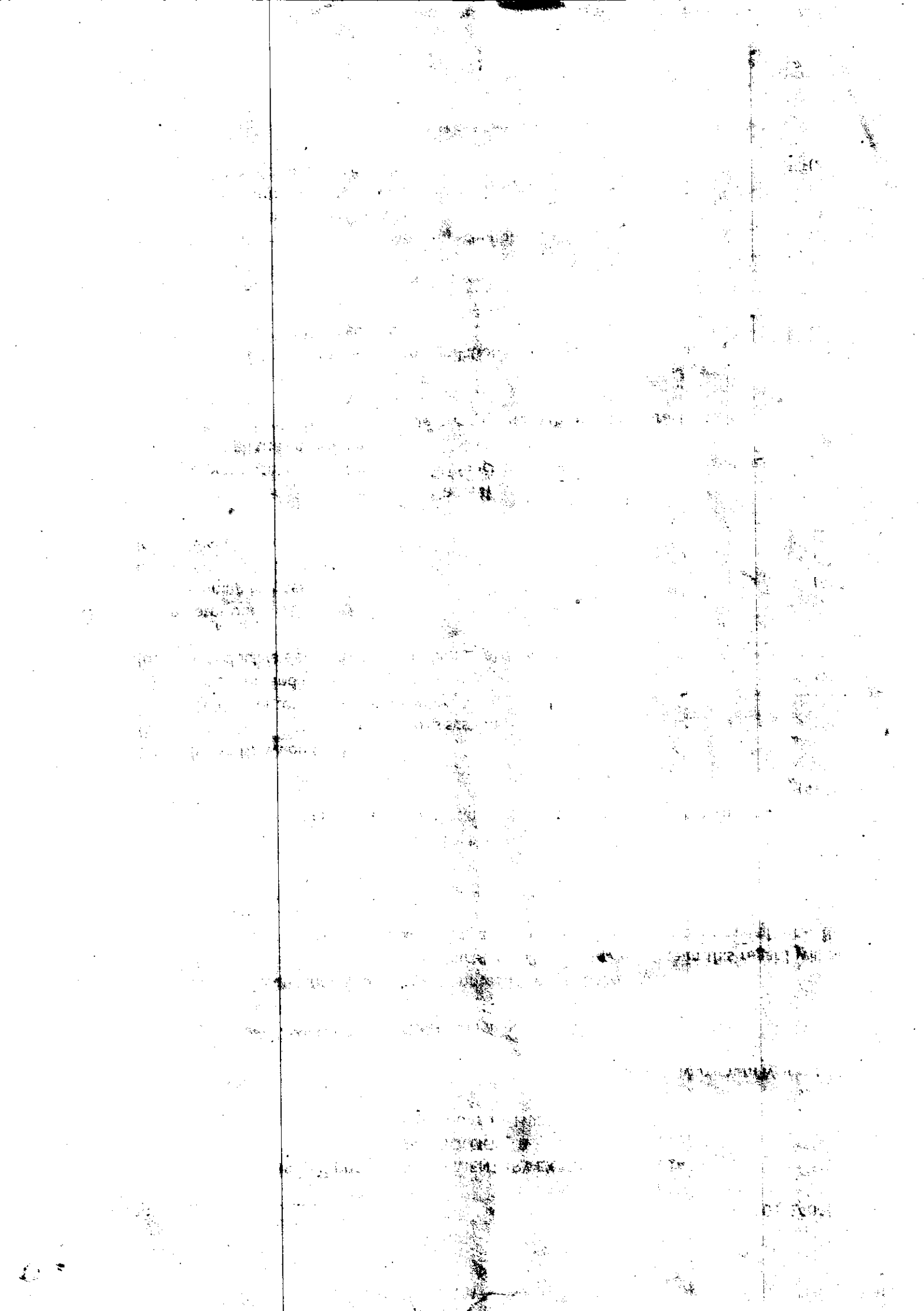
- Note: 1. Write your Roll No. on the Question Paper.
2. Attempt all the questions.
3. Parts of a question should be attempted in sequential order.
4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
5. Draw the diagram wherever required.

Part- I

- Q.1 Define sleep. Enumerate the factors affecting it. Differentiate between NREM and REM sleep . (4+4)
- Q.2 Differentiate between the following:
- (a) Somatic and autonomic nervous system. (2)
 - (b) Cold receptor and warm receptor. (2)
 - (c) Intention and resting tremors. (2)
 - (d) Conductive deafness and sensorineural deafness. (2)
- Q.3 Write notes on:
- (a) Tuning fork tests. (3)
 - (b) Accommodation reflex. (3)
 - (c) Visual pathway. (3)

Part- II

- Q.4 (a) Enumerate the different transport mechanisms which transport substances through the cell membrane. (3)
(b) What is facilitated diffusion. Describe its mechanism and characteristic features. (5)
- Q.5 (a) Describe the composition and regulation of Gastric Juice secretion. (4)
(b) Mechanism of HCL secretion. (3)
- Q.6 Write briefly on:
- (a) Properties of nerve fibres. (2)
 - (b) Sarcotubular system in skeletal muscle fibres. (2)
 - (c) Resting membrane potential. (2)
 - (d) Juxta Glomerular apparatus. (2)
 - (e) Functions of the Gall Bladder. (2)



Roll No.: _____

0101/1401

MBBS - 1ST PROF. EXAMINATION – JULY 2014
ANATOMY - A
Paper Code: 0101101

Time: 03 hrs.

Maximum Marks : 50

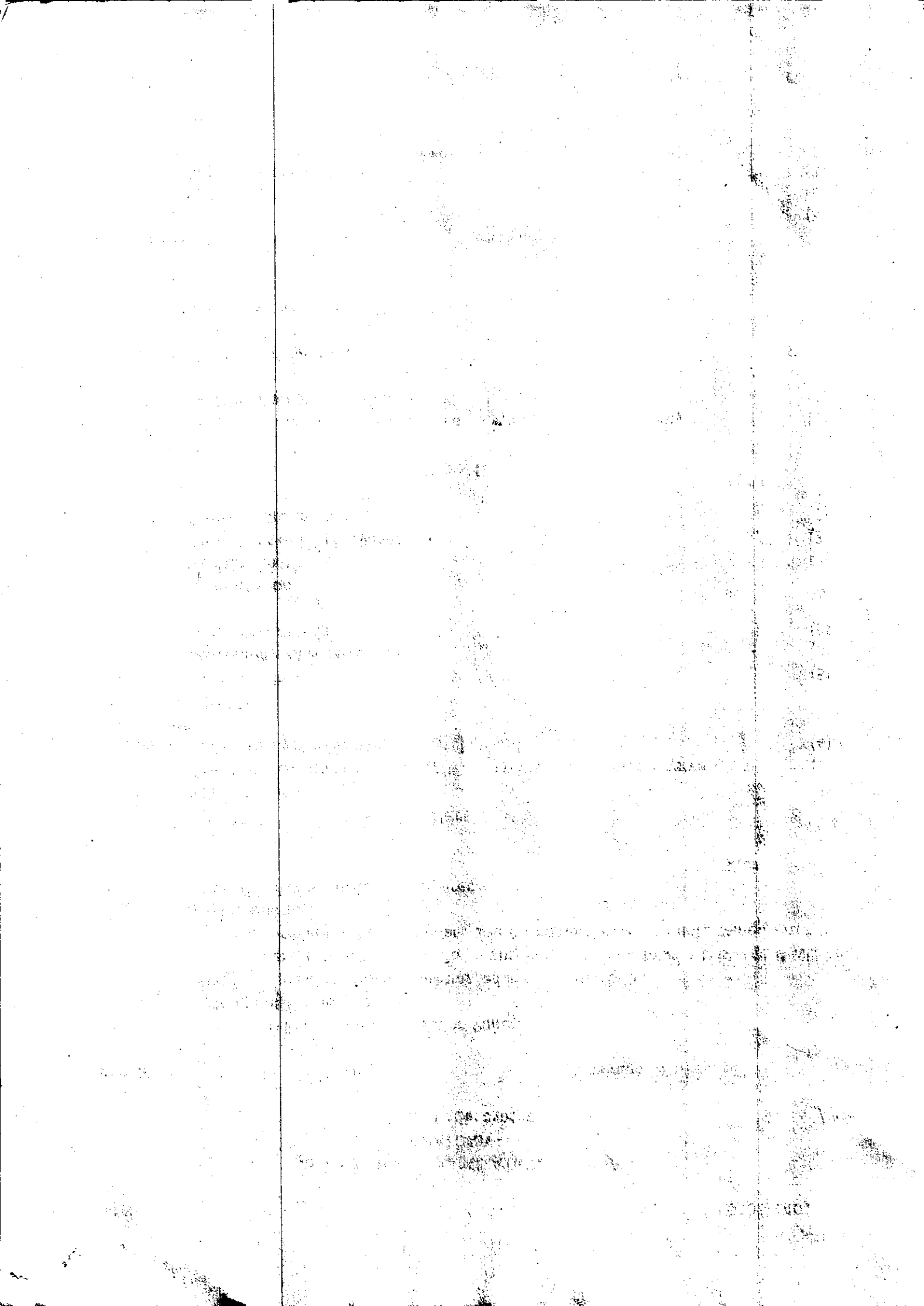
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4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
5. Draw the diagram wherever required.

Part- I

- Q.1 Write in brief about:
- (a) Nuclei, course, branches and applied anatomy of Oculomotor nerve. (4)
 - (b) Blood supply and histology of thyroid gland. (4)
- Q.2 Describe briefly:
- (a) Synovial joints. (3)
 - (b) Movements of vocal cords. (3)
 - (c) Buccinator muscle. (3)
- Q.3 Write short notes on:
- (a) Carotid sheath. (2)
 - (b) Derivatives of 2nd pharyngeal arch. (3)
 - (c) External carotid artery. (3)

Part- II

- Q.4 Write in brief:
- (a) Lymphatic drainage of breast. Add a note on its Applied Anatomy. (4)
 - (b) Functional areas of cerebral cortex. (4)
- Q.5 Draw well-labeled diagrams to show:
- (a) Branchial Plexus. (3)
 - (b) Floor of the fourth ventricle. (3)
 - (c) Microscopic anatomy of spleen. (2)
- Q.6 Write short notes on:
- (a) Intraembryonic mesoderm. (3)
 - (b) Blood supply of long bone. (3)
 - (c) Carpal tunnel syndrome. (3)



Roll No.: _____

0101/1402

MBBS - 1ST PROF. EXAMINATION – JULY 2014
ANATOMY - B
Paper Code: 0101101

Time: 03 hrs.

Maximum Marks : 50

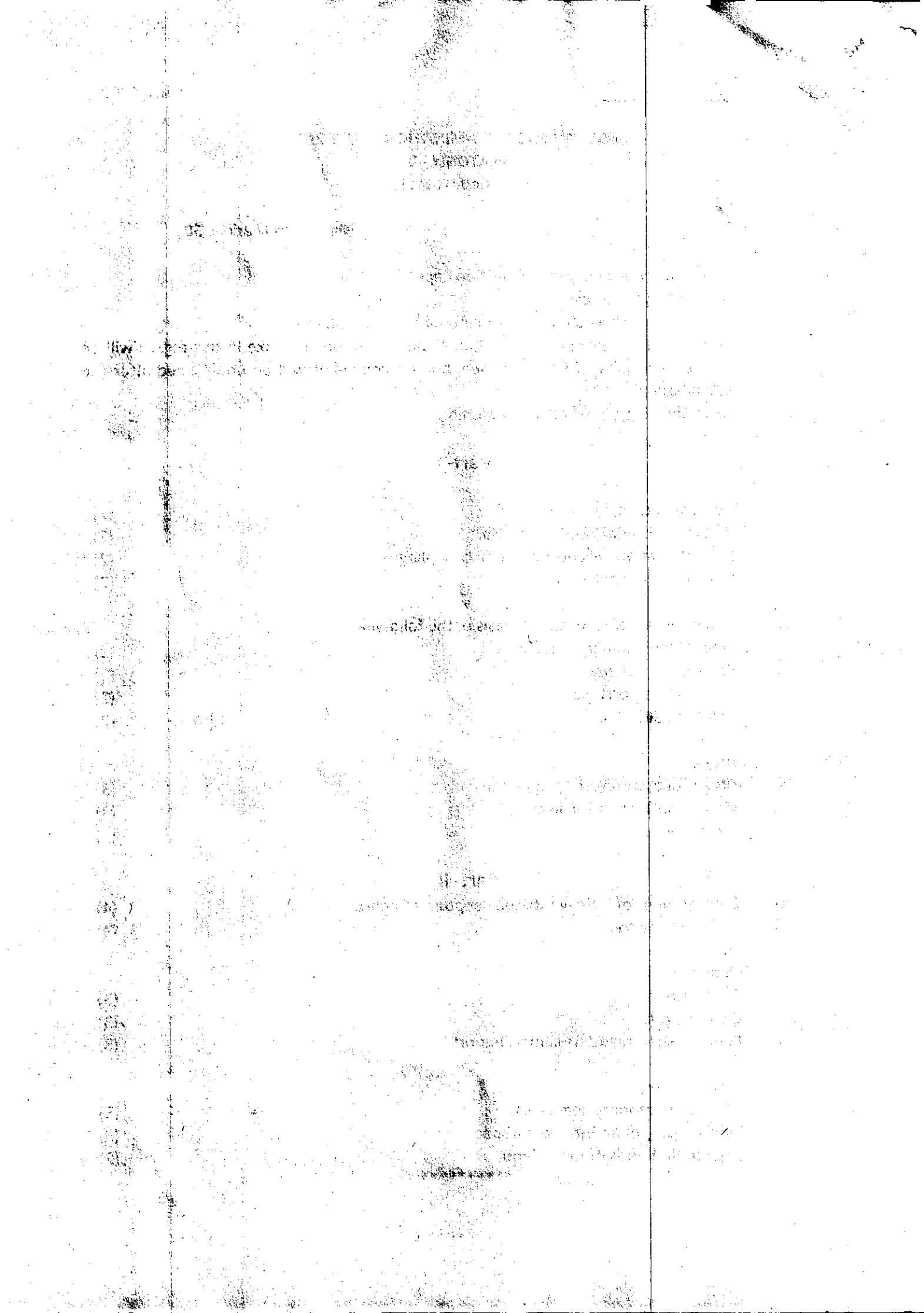
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4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
5. Draw the diagram wherever required.

Part- I

- Q.1 Enumerate the following:
- (a) Components of spermatic cord. (2)
 - (b) Layers of anterior abdominal wall. (2)
 - (c) Sites of anatomical constrictions in oesophagus. (2)
 - (d) Derivatives of ureteric bud. (2)
- Q.2 Give the anatomical/ embryological basis of the following:
- (a) Tracheo-oesophageal fistula. (2)
 - (b) Prolapse of uterus. (2)
 - (c) Internal haemorrhoids. (2)
 - (d) Caput medusae. (2)
- Q.3 Write notes on:
- (a) Histological structure of appendix. (3)
 - (b) Visceral surface of the liver. (3)
 - (c) Lesser sac. (3)

Part- II

- Q.4 (a) Development of inter-ventricular septum of heart. (4)
(b) Arches of the foot. (4)
- Q.5 Write briefly on:
- (a) Ankle joint. (3)
 - (b) Oesophagus. (3)
 - (c) Femoral sheath and its clinical importance. (3)
- Q.6 Write short notes on:
- (a) Bronchopulmonary segments. (3)
 - (b) Blood supply of an intercostal space. (3)
 - (c) Sessomoid bones of lower limb. (2)



Roll No.: _____

0101/1403

MBBS - 1ST PROF. EXAMINATION – JULY 2014
PHYSIOLOGY - A
Paper Code: 0101102

Time: 03 hrs.

Maximum Marks : 50

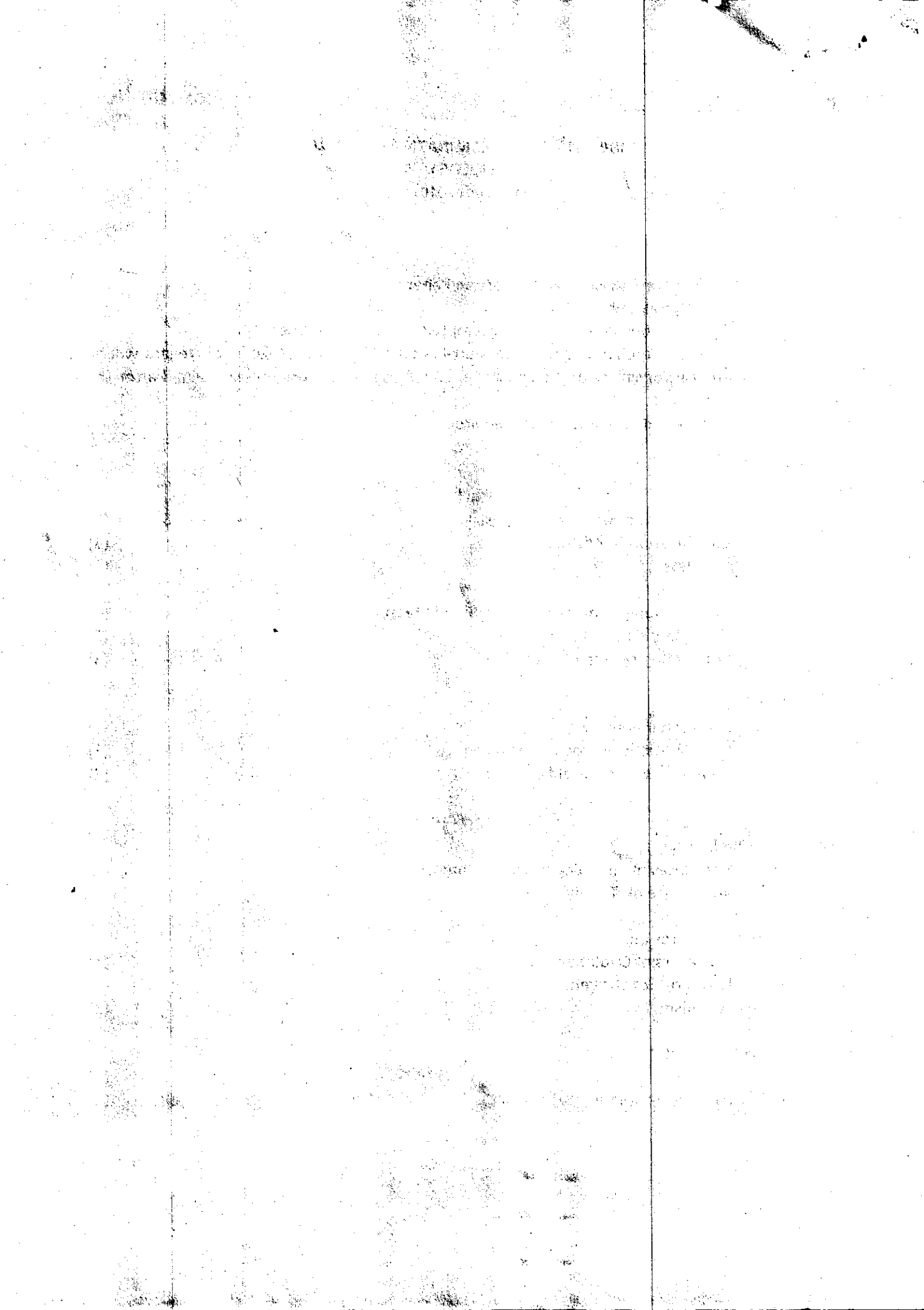
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4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
5. Draw the diagram wherever required.

Part- I

- Q.1 (a) Describe steps of Erythropoiesis. (3)
(b) Classification of Anaemias. (3)
(c) Platelets. (2)
- Q.2 (a) Describe long term regulation of Blood Pressure. (4)
(b) Heart sounds. (2)
(c) Conducting system of heart. (3)
- Q.3 Describe briefly:
(a) Acquired immunity. (3)
(b) Complications of blood transfusion. (3)
(c) Body's response to cold exposure. (2)

Part- II

- Q.4 Describe briefly:
(a) Hormones maintaining Calcium homeostasis. (6)
(b) Add a note on Tetany. (2)
- Q.5 Write short notes on:
(a) Indicators of Ovulation. (3)
(b) Transport of Oxygen. (3)
(c) Cretinism. (3)
- Q.6 Describe in brief:
(a) Hypoxia. (4)
(b) Diabetes Insipidus. (4)



Roll No.: _____

0101/1404

MBBS - 1ST PROF. EXAMINATION – JULY 2014
PHYSIOLOGY - B
Paper Code: 0101102

Time: 03 hrs.

Maximum Marks : 50

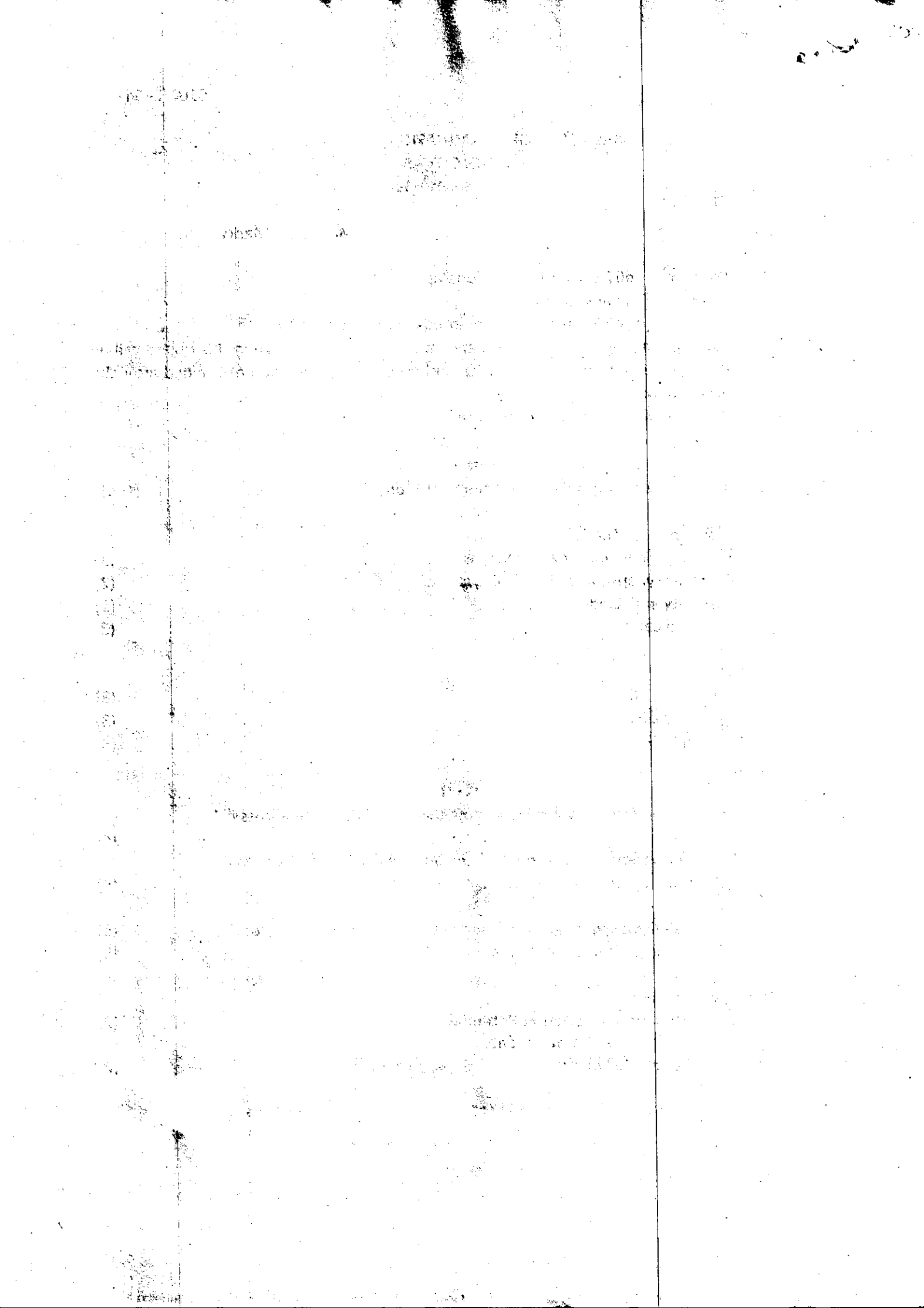
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3. Parts of a question should be attempted in sequential order.
4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
5. Draw the diagram wherever required.

Part- I

- Q.1 Describe the pathways for pain. Write short notes on inhibition of pain. (4+4)
- Q.2 Differentiate between the following:
- (a) Cholinergic and adrenergic neurons. (2)
 - (b) Chemical synapse and electrical synapse. (2)
 - (c) Spasticity and Rigidity. (2)
 - (d) Rods and cones (2)
- Q.3 Write notes on:
- (a) Organ of Corti. (3)
 - (b) Light reflex pathway. (3)
 - (c) Uses of EEG. (3)

Part- II

- Q.4 (a) Describe the factors which determine the rate of diffusion across cell membrane. (4)
- (b) Name the various pumps found in the body and what will happen if $\text{Na}^+ - \text{K}^+$ pump does not function. (4)
- Q.5 (a) Describe diagrammatically the structure and functions of Neuron. (6)
- (b) Counter current mechanism in Kidney. (5)
- Q.6 Differentiate between:
- (a) Graded Potential and Action Potential. (2)
 - (b) Microtubules and Microfilaments. (2)
 - (c) Liver bile and Gall bladder bile. (2)



Roll No.: _____

0101/1405

MBBS - 1ST PROF. EXAMINATION – JULY 2014

BIOCHEMISTRY - A

Paper Code: 0101103

Time: 03 hrs.

Maximum Marks : 50

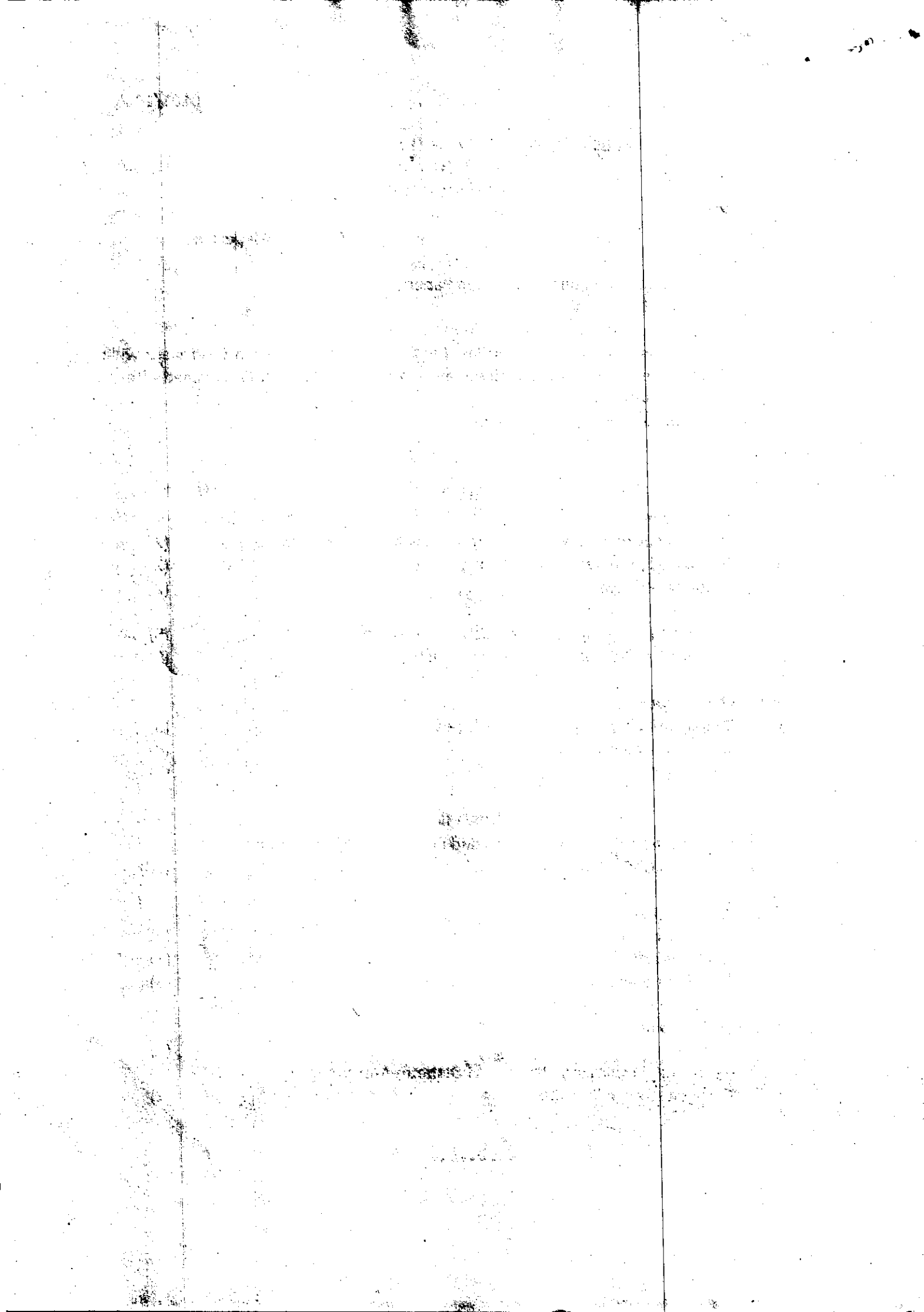
- Note:
1. Write your Roll No. on the Question Paper.
 2. Attempt all the questions.
 3. Parts of a question should be attempted in sequential order.
 4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
 5. Draw the diagram wherever required.

Part- I

- Q.1 Write short note on:
- (a) Mention any two heteropolysaccharides with their importance. (2)
 - (b) Specialized products derived from cholesterol. (2)
 - (c) Biologically active peptides. (2)
- Q.2
- (a) Mention and describe the diagnostic importance of Isoenzymes. (5)
 - (b) Describe the factors affecting Enzyme activity. (5)
- Q.3 Write in brief about:
- (a) Chemiosmotic theory of oxidative phosphorylation. (3)
 - (b) Secondary active transport. (3)
 - (c) Myoglobin. (3)

Part- II

- Q.4 Explain in detail the pathway, regulation and importance of HMP shunt Pathway. Explain G -6-P D deficiency. (10)
- Q.5 Explain the following:
- (a) Phenylketonuria. (3)
 - (b) HDL Metabolism. (3)
 - (c) Hyperbilirubinemia. (3)
- Q.6 Write short notes on:
- (a) Gout. (2)
 - (b) Acute and Chronic complications of Diabetes Mellitus. (2)
 - (c) Glycogen storage disorders. (2)



Roll No.: _____

0101/1406

MBBS - 1ST PROF. EXAMINATION – JULY 2014
BIOCHEMISTRY - B
Paper Code: 0101103

Time: 03 hrs.

Maximum Marks : 50

- Note: 1. Write your Roll No. on the Question Paper.
2. Attempt all the questions.
3. Parts of a question should be attempted in sequential order.
4. Use separate answer books for Part-I and Part-II. Any mistake in this regard will be the responsibility of the examinee, and no complaint will be entertained after the examination.
5. Draw the diagram wherever required.

Part- I

- Q.1 Write in brief :
- (a) Eukaryotic DNA polymerases and their functions. (2^½)
 - (b) Aminoacyl t RNA synthetases. (2^½)
 - (c) Post transcriptional modifications in eukaryotes. (2^½)
 - (d) Inhibitors of protein synthesis with mechanism of action of any two. (2^½)
- Q.2 Write short notes on:
- (a) Genetic code. (3)
 - (b) RFLP analysis. (3)
 - (c) Hormones derived from tyrosine. (3)
- Q.3 Write briefly:
- (a) Mutations. (2)
 - (b) p⁵³ protein. (2)
 - (c) Telomerase. (2)

Part- II

- Q.4 Define jaundice. Mention different types of jaundice. How will you differentiate between types of jaundice by biochemical tests performed in blood and urine? (10)
- Q.5 Write brief notes on:
- (a) Cytochrome p⁴⁵⁰. (2)
 - (b) Antioxidant vitamins. (2)
 - (c) Renal Rickets. (2)
- Q.6 Write short notes on:
- (a) pH and buffers. (3)
 - (b) Cyclic AMP as second messenger. (3)
 - (c) Hyperkalemia. (3)

