

Total No. of Questions : 12]

[Total No. of Pages : 2

P1246

[3744] - 101

I - M.B.B.S.

ANATOMY (Paper - I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answer any five questions from each section.*
- 2) Answers of two sections should be written in separate answer books.*
- 3) Neat well labelled diagrams should be drawn wherever necessary.*
- 4) Figures to the right indicate full marks.*

SECTION - I

Q1) Write notes on: [10]

- a) Fibrocartilage.
- b) Zona pellucida.

Q2) Describe origin, course, relations and branches of sciatic nerve. Add a note on applied importance. [10]

Q3) Describe Deltoid muscle and its clinical importance. [10]

Q4) Describe arches of foot. Add a note on deformities of foot. [10]

Q5) Describe palmer spaces in hand. [10]

Q6) Write notes on: [10]

- a) Autosomal dominance.
- b) Carpal tunnel syndrome.

SECTION - II

Q7) Write notes on: [10]

- a) Inguinal hernia.
- b) Microscopic structure of Thymus.

P.T.O.

Q8) Describe gross anatomy and development of pancreas. **[10]**

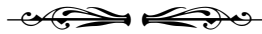
Q9) Describe pelvic diaphragm. **[10]**

Q10) Describe longitudinal section of left kidney (gross) and add a note on its blood supply. **[10]**

Q11) Describe gross anatomy and microscopic structure of ovary. **[10]**

Q12) Write notes on: **[10]**

- a) Cartilaginous joints.
- b) Turner's syndrome.



Total No. of Questions : 12]

[Total No. of Pages : 2

P1247

[3744] - 102

I - M.B.B.S.

ANATOMY

(Paper - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answer any Five questions from each section.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right indicate full marks.*

SECTION - I

Q1) Write notes on: [10]

- a) Microscopic structure of thyroid gland.
- b) Development of tongue.

Q2) Describe pleura. [10]

Q3) Describe the palatine tonsil. Give its microscopic structure. [10]

Q4) Describe lateral wall of nose. [10]

Q5) Describe extra ocular muscles of eye ball. [10]

Q6) Write notes on: [10]

- a) Auditory tube.
- b) Coronary sinus.

SECTION - II

Q7) Write notes on: [10]

- a) Inferior cerebellar peduncle.
- b) Choroid plexus in lateral ventricle.

P.T.O.

Q8) Describe facial nerve. [10]

Q9) Enumerate ascending tracts of central nervous system. Write a note on spino-thalamic tract. [10]

Q10) Enumerate dural venous sinuses. Describe cavernous sinus in detail. [10]

Q11) Describe Circle of Willis of brain. [10]

Q12) Write notes on: [10]

- a) Functional components of cerebellum.
- b) Lateral lemniscus.



Total No. of Questions : 12]

[Total No. of Pages : 2

P1248

[3744] - 103

I - M.B.B.S.

PHYSIOLOGY (Paper - I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answer any Five questions from each section.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) All questions carry equal marks.*

SECTION - I

Q1) Describe the molecular basis of skeletal muscle contraction. **[10]**

Q2) Draw a well labeled diagram of action potential in large myelinated nerve fiber. Explain the ionic basis of each phase of action potential. **[10]**

Q3) Describe the mechanism of formation of concentrated urine. **[10]**

Q4) Define and classify immunity. Describe the mechanism of cell mediated immunity. **[10]**

Q5) Write notes on: **[10]**

- a) Functions of proximal convoluted tubule.
- b) Primary active transport.

Q6) Write notes on: **[10]**

- a) Myasthenia gravis.
- b) Structure and functions of cell membrane.

SECTION - II

Q7) Define blood pressure. Enlist different mechanisms regulating blood pressure. Describe the role of baroreceptors in regulation of blood pressure. **[10]**

P.T.O.

Q8) What are respiratory centers? Describe the role of various respiratory centers in regulations of respiration. **[10]**

Q9) Describe the mechanism of transport of O₂ in blood. Add a note on Bohr's effect. **[10]**

Q10) Define cardiac cycle. Describe the ventricular volume and pressure changes during cardiac cycle. **[10]**

Q11) Write notes on: **[10]**

- a) Lung compliance.
- b) Venous return.

Q12) Write notes on: **[10]**

- a) Pacemaker potential.
- b) Starling forces in tissue fluid formation.



Total No. of Questions : 12]

[Total No. of Pages : 2

P1249

[3744] - 104

I - M.B.B.S.

PHYSIOLOGY (Paper - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answer any Five questions from each section.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) All questions carry equal marks.*

SECTION - I

Q1) Classify sensory receptors. Describe any four properties of receptors. [10]

Q2) Describe the origin, course and termination of pyramidal tracts. Describe the functions of pyramidal tracts. Add a note on Babinski's sign. [10]

Q3) Describe the photochemistry of vision. [10]

Q4) Describe the mechanism of hearing. [10]

Q5) Write notes on: [10]

- a) Short term memory.
- b) Myopia.

Q6) Write notes on: [10]

- a) Ataxia.
- b) Taste pathway.

SECTION - II

Q7) Describe the composition and functions of bile. [10]

Q8) Enumerate phases of menstrual cycle. Describe their hormonal control.[10]

P.T.O.

Q9) Describe the biosynthesis of thyroid hormones. Add a note on hyperthyroidism. [10]

Q10) Define peristalsis. Describe various types of peristalsis and their regulation. [10]

Q11) Write notes on: [10]

- a) Placental hormones.
- b) Succuss entericus.

Q12) Write notes on: [10]

- a) Dwarfism.
- b) Peptic ulcer.



Total No. of Questions : 12]

[Total No. of Pages : 2

P1250

[3744] - 105

I - M.B.B.S.

BIOCHEMISTRY (Old Course)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Answer any five questions from each section.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) All questions carry equal marks.*

SECTION - I

Q1) Describe Hexose Monophosphate shunt pathway and state its significance.[10]

Q2) What is fatty Liver. Describe the biochemical mechanisms of production of fatty Liver. [10]

Q3) Describe urea cycle, discuss clinical significance of blood urea level. [10]

Q4) Describe the metabolism of calcium and phosphorous in human body. [10]

Q5) Write short notes on (any two): [10]

- a) Lesch-Nyhan Syndrome.
- b) Creatinine clearance test.
- c) Starvation metabolism.

Q6) Write short notes on (any two): [10]

- a) Diabetes mellitus.
- b) Alkaptonuria.
- c) Cholesterol.

P.T.O.

SECTION - II

Q7) Describe the classification of Proteins with suitable examples. **[10]**

Q8) What are different type of abnormal haemoglobins and how they differ from the normal haemoglobins. **[10]**

Q9) Write dietary sources, biochemical functions and deficiency manifestations of Retinol. **[10]**

Q10) Classify Enzymes giving suitable examples of each group. **[10]**

Q11) Write short notes on (any two): **[10]**

- a) Uncouplers of oxidative phosphorylation.
- b) Thyroxin.
- c) Jaundice.

Q12) Write short notes on (any two): **[10]**

- a) Water metabolism and Aldosterone.
- b) Role of blood buffer in maintenance of Acid base Balance.
- c) Electrophoresis.



Total No. of Questions : 8]

[Total No. of Pages : 2

P1251

[3744] - 201

II - M.B.B.S.

PATHOLOGY

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) All questions are compulsory.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right indicate full marks.*
- 5) Your answers will be valued as a whole.*

SECTION - I

Q1) Define Neoplasia. Enumerate major chemical carcinogens. Describe steps involved in chemical carcinogenesis. **[13]**

Q2) Write short notes on any two of the following: **[12]**

- a) Septic Shock.
- b) Chemical Mediators of inflammation.
- c) Special stains for amyloid.

Q3) Define Peptic ulcer. Describe etiopathogenesis and morphology of Benign Gastric ulcer. **[13]**

Q4) Write short notes on any two of the following: **[12]**

- a) Acute Pyelonephritis.
- b) Hemochromatosis.
- c) Complications of Diabetes Mellitus.

SECTION - II

Q5) Define Leukemia. Give FAB classification of Acute Leukemia. Describe PBS & Bone Marrow findings in Acute Myeloid Leukemia. **[13]**

P.T.O.

Q6) Write short notes on any two of the following: [12]

- a) PBS & Bone Marrow finding in Multiple Myeloma.
- b) Reticulocyte count.
- c) Coomb's test.

Q7) Classify Testicular Tumours. Describe etiopathogenesis and pathology of any two testicular tumours. [13]

Q8) Write short notes on any two of the following: [12]

- a) R.S. Cell.
- b) Tumour markers.
- c) Pleomorphic adenoma.



Total No. of Questions : 8]

[Total No. of Pages : 2

P1252

[3744] - 202

**II - M.B.B.S.
MICROBIOLOGY**

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) *All questions are compulsory.*
- 2) *Answers to the sections to be written in separate answer sheets.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw diagrams wherever necessary.*

SECTION - I

Q1) Define sterilization and disinfection. Discuss in detail chemical disinfectants with their applications. **[15]**

Q2) Write short notes on any two: **[10]**

- a) Bacterial spore.
- b) Selective media.
- c) Methods of anaerobiosis.

Q3) Name organisms causing urinary tract infections. Discuss laboratory diagnosis of UTI. **[15]**

Q4) Write short notes on any two: **[10]**

- a) Tetanus toxoid vaccine.
- b) *Corynebacterium diphtheriae*.
- c) V.D.R.L.

SECTION - II

Q5) Enumerate intestinal nematodes. Describe life cycle of *Ankylostoma duodenale*. What are its complications? **[15]**

P.T.O.

Q6) Write short notes on any two: [10]

- a) Mycetoma.
- b) Trichophyton rubrum.
- c) Hydatid cyst.

Q7) Describe transmission of Hepatitis B virus. Discuss laboratory diagnosis and its prophylaxis. [15]

Q8) Write short notes on any two: [10]

- a) Agglutination reactions and application.
- b) Anaphylaxis.
- c) Tissue culture.



Total No. of Questions : 6]

[Total No. of Pages : 2

P1253

[3744] - 203

II - M.B.B.S.

PHARMACOLOGY

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Figures to right indicate full marks.*

SECTION - I

Q1) a) Describe pharmacotherapy of leprosy. [6]

b) Write briefly on any three of the following: [12]

- i) Norfloxacin.
- ii) Uses of carbenicillin.
- iii) Tetracyclines.
- iv) Adverse effects of streptomycin.

Q2) Write short notes on the following: [16]

- a) Synergism.
- b) Redistribution of drug.
- c) Prokinetic drugs.
- d) Low molecular weight heparin.

Q3) Write short notes on the following: [16]

- a) Transdermal route of drug administration.
- b) Inhalational corticosteroids.
- c) Adverse effects of nitrates.
- d) Domperidone.

P.T.O.

SECTION - II

Q4) a) Describe pharmacotherapy of Gout. [6]

b) Write briefly on any three of the following: [12]

i) Alprazolam.

ii) Pentazocine.

iii) Carbamazepine.

iv) Pancuronium.

Q5) Write short notes on the following: [16]

a) Cyclopentolate.

b) Salbutamol.

c) Phenoxybenzamine.

d) Nasal decongestants.

Q6) Write short notes on the following: [16]

a) Nafarelin.

b) Propyl thiouracil.

c) Biguanides.

d) Contraindications of prednisolone.



Total No. of Questions : 6]

[Total No. of Pages : 1

P1254

[3744] - 301

III - M.B.B.S.

MEDICINE (Paper - I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate books.*
- 3) *Figures to the right indicate full marks.*

SECTION - I

Q1) Describe clinical features, investigations, complications and management of Mitral Stenosis. [15]

Q2) Write notes on: [20]

- a) Iron deficiency Anemia.
- b) Pleural effusion.

Q3) Write notes on Any Three: [15]

- a) Beta Blockers.
- b) Lepra Reaction.
- c) Secondary Syphilis.
- d) Lung Abscess.
- e) Adrenal Crisis.

SECTION - II

Q4) Describe etiology, clinical features, investigations and management of Hemiplegia. [15]

Q5) Write Notes on: [20]

- a) Urinary Tract Infection.
- b) Acute Complications of Diabetes Mellitus.

Q6) Write Short Notes on Any Three: [15]

- a) Anxiety Neurosis.
- b) Gout.
- c) Obesity.
- d) Hematuria.
- e) Complications of SLE.



Total No. of Questions : 6]

[Total No. of Pages : 2

P1255

[3744] - 302

III - M.B.B.S.

MEDICINE & PAEDIATRICS

(Paper - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) All questions are compulsory.*
- 2) Answers to the two sections should be written in separate books.*
- 3) Figures to the right indicate full marks.*

SECTION - I
(MEDICINE)

Q1) Describe etiology, clinical features, complications and management of infective Hepatitis. **[15]**

Q2) Discuss etiology, clinical features, complications and management of Tetanus. **[15]**

Q3) Write notes on: **[20]**

- a) Management of organophosphorous Poisoning.
- b) Portal Hypertension.

Q4) Write short notes on (Any Two): **[10]**

- a) Treatment of malaria.
- b) Vitamin 'C' deficiency.
- c) Solitary pulmonary nodule.

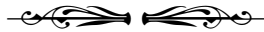
P.T.O.

SECTION - II
(PAEDIATRICS)

- Q5)** a) Discuss the management of status epilepticus in a 5 year old child. **[10]**
b) Discuss the differential diagnosis of acute onset respiratory distress in a 3 year old child. Outline investigations and management of this patient. **[10]**

Q6) Write short notes: **[20]**

- a) ORS (Oral Rehydration Solution).
- b) Hepatitis B Vaccination in Children.
- c) Cyanotic spells.
- d) Pica.



Total No. of Questions : 6]

[Total No. of Pages : 1

P1256

[3744] - 303

III - M.B.B.S.

GENERAL SURGERY & ORTHOPAEDICS (Paper - I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) *All questions are compulsory.*
- 2) *Answers to the two sections should be written in separate answer books.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Figures to the right indicate full marks.*

SECTION - I

- Q1)** What is lymphoedema? How will you manage a case of lymphoedema involving lower limb? [16]
- Q2)** Discuss pathogenesis and management of multinodular goiter. [16]
- Q3)** Write short notes on (Any Three): [18]
- a) Dentigerous cyst.
 - b) Hyperbaric oxygen.
 - c) Complications of blood transfusion.
 - d) Premalignant lesions for oral cancer.
 - e) Spread of malignant tumors.

SECTION - II

- Q4)** Discuss the etiopathology, clinical features and management of advanced Ca breast in a 50 years old female. [16]
- Q5)** Discuss the pathophysiology, clinical features and management of septic shock. [16]
- Q6)** Write short notes on (Any Three): [18]
- a) Lipoma.
 - b) Epulis.
 - c) Tracheotomy complications.
 - d) Spinal anaesthesia.
 - e) IVP.



Total No. of Questions : 7]

[Total No. of Pages : 2

P1257

[3744] - 304

III - M.B.B.S.

GENERAL SURGERY & ORTHOPAEDICS (Paper - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) All questions are compulsory.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right indicate full marks.*

SECTION - I

Q1) Discuss aetiopathology, clinical features and management of Ca Rectum.[15]

Q2) Discuss aetiopathology and management of acute appendicitis. [15]

Q3) Enumerate cause of Bil Hydronephrosis. How will you manage a case of congenital Pelvi Ureteric Junction block? [15]

Q4) Write short notes on (Any Three): [15]

- a) Horse shoe kidney.
- b) Causes of umbilical discharge.
- c) Management of strangulated inguinal hernia.
- d) Management of piles.

SECTION - II

Q5) Describe in detail management of Tubercular paraplegia. [10]

Q6) Describe in detail clinical features and management of Colles' fracture. [10]

P.T.O.

Q7) Write short notes on:

[20]

- a) Frozen shoulder.
- b) Giant cell Tumour.
- c) Robert John's fracture.
- d) Polydactyly.



Total No. of Questions : 6]

[Total No. of Pages : 2

P1258

[3744] - 305

III - M.B.B.S.

OBSTETRICS & GYNAECOLOGY

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

Q1) Define abortion. [2]

Enumerate causes for first trimester & second trimester abortions. [6]

How will you investigate & manage a case of missed abortion. [8]

Q2) Define pre eclampsia & eclampsia? [2]

Discuss the clinical presentation, complication & management of a case of Severe pre eclampsia. [10]

What are the drugs used in case of eclampsia? [4]

Q3) Write short the notes (any 3): [18]

- a) Anencephaly.
- b) Blood transfusion in obstetrics.
- c) Anti D.
- d) MVA.
- e) Vacuum Delivery.

Q4) What are the causes of leucorrhoea? [2]

Discuss the predisposing factors, clinical presentation, management & complications of carcinoma cervix. [10]

Enumerate complications of radiotherapy in gynaecology. [4]

P.T.O.

Q5) Define dysfunctional uterine bleeding (DUB). [2]

Discuss the investigations & management of menorrhagia in a 35 yrs old woman. [10]

Enumerate uses of hysteroscopy in gynaecology. [4]

Q6) Write short note (any 3): [18]

- a) Tumor markers.
- b) Semen analysis.
- c) Copper T.
- d) Uses of progesterone in gynaecology.
- e) Choriocarcinoma.



Total No. of Questions : 6]

[Total No. of Pages : 2

P1259

[3744] - 306

III - M.B.B.S.

PREVENTIVE AND SOCIAL MEDICINE

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) All questions are compulsory.***
- 2) Answers to the two sections should be written in separate books.***
- 3) Neat diagrams must be drawn wherever necessary.***
- 4) Figures to the right indicate full marks.***

SECTION - I

- Q1)*** a) What is meant by “Safe and Wholesome water”? Describe in brief the steps of purification of water on a large scale. **[8]**
- b) Write short notes on (Any Two): **[6]**
- i) Sanitary Well.
 - ii) Orthotolodine test.
 - iii) Chlorine demand.
- Q2)*** a) Describe the control measures for Malaria. **[8]**
- b) Write short notes on (Any Two): **[6]**
- i) Swine Flu.
 - ii) Terminal Disinfection.
 - iii) Pasteurisation.
- Q3)*** a) What is a cohort study. Outline the steps in conducting a cohort study. **[8]**
- b) Write short notes on (Any Two): **[6]**
- i) Relative risk.
 - ii) Cluster sampling.
 - iii) Ice berg phenomenon of disease.
- c) Write short notes on (Any Two): **[8]**
- i) Spot map.
 - ii) Normal distribution.
 - iii) Maternal mortality rate.

P.T.O.

SECTION - II

- Q4)** a) What are the salient features of Revised National Tuberculosis programme. Describe in brief “DOTS Strategy”. [8]
b) Write short notes on (Any Two): [6]
i) Lathyrism.
ii) Aedes aegypti.
iii) Control of housefly.
- Q5)** a) Describe briefly the Assessment of nutritional status. [8]
b) Write short notes on (Any Two): [6]
i) Food fortification.
ii) Post natal Care.
iii) Juvenile delinquency.
- Q6)** a) Describe briefly the types of Occupational hazards to which an industrial worker is exposed. [8]
b) Write short notes on (Any Two): [6]
i) Pulse polio.
ii) Barriers in communication.
iii) Tertiary prevention.
c) Write short notes on (Any Two): [8]
i) Prevention of Dengue fever.
ii) Vit A deficiency.
iii) Levels of health care.



Total No. of Questions : 3]

[Total No. of Pages : 1

P1260

[3744] - 307

III - M.B.B.S.

E.N.T.

Time : 2 Hours]

[Max. Marks : 50

Instructions to the candidates :

- 1) Neat diagrams must be drawn wherever necessary.***
- 2) Marks in brackets indicate full marks.***
- 3) Your answers will be valued as a whole.***
- 4) All questions are compulsory.***
- 5) Write prescriptions with drug doses wherever indicated.***

Q1) Discuss various causes of Dysphagia in a 45 year old female. **[16]**

Q2) Write short notes on- **[16]**

- a) Antrochoanal Polyp.
- b) Topodiagnostic tests in Facial Nerve palsy.

Q3) Write short notes on (Any 3): **[18]**

- a) Causes of Left Vocal cord Palsy.
- b) Types of Tympanoplasty.
- c) Foreign Bodies in E.N.T.
- d) Little's Area.



Total No. of Questions : 3]

[Total No. of Pages : 1

P1261

[3744] - 308

III - M.B.B.S.

OPHTHALMOLOGY

Time : 2 Hours]

[Max. Marks : 50

Instructions to the candidates :

- 1) Figures to the right indicate full marks.***
- 2) All questions are compulsory.***
- 3) Draw neat diagrams wherever necessary.***
- 4) Write prescriptions where indicated and in the use of drug dose should be given.***

Q1) Describe in details clinical features and management of primary open angle glaucoma. **[16]**

Q2) Write briefly on- **[16]**

- a) Advantages and disadvantages of sutureless cataract surgery.
- b) Acute dacryocystitis.

Q3) Write short notes on - (Any three): **[18]**

- a) Astigmatism.
- b) Herpes zoster ophthalmicus.
- c) Pilocarpine.
- d) Pterygium.
- e) Hypertensive Retinopathy.



P1512

[3744]-204

M.B.B.S. - II

FORENSIC MEDICINE AND TOXICOLOGY

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Draw neat and labeled diagrams wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Use separate answer sheet for both sections.*

SECTION - I

- Q1)** Discuss procedure of Age estimation upto 25 years. Mention Medicolegal aspect of Age 16 years. **[10]**
- Q2)** Define Hanging. Describe postmortem signs in a case of typical hanging. **[10]**
- Q3)** Describe postmortem signs, treatment and medicolegal aspects of snake bite poisoning. **[10]**
- Q4)** Write short notes : **[20]**
- a) Mechanical antidote
 - b) Joule burn.
 - c) Diatom test.
 - d) Precipitin test.

SECTION - II

- Q5)** Discuss provisions under Medical Termination of Pregnancy Act 1971. **[10]**
- Q6)** Define and discuss privileged communication. **[10]**
- Q7)** Describe in detail contusion injury. **[10]**
- Q8)** Write short notes : **[20]**
- a) Consent in Medical Practice.
 - b) Positive signs of pregnancy.
 - c) Shot gun cartridge.
 - d) Delirium.

