

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PATHOLOGY

PAPER – I

(General Pathology including environmental pathology / pathophysiology / immunopathology with recent advances and applied pathology)

Q.P. Code: 1213

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Explain the mechanism of Apoptosis and relate with specific examples. (12+8)
2. Explain oncogenes and its significance in oncogenesis. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Classify odema and explain about cardiac odema. (4+6)
4. Explain Niemann pick's disease.
5. Explain role of macrophages in health and disease.
6. Explain pathogenesis of Acquired immunodeficiency syndrome.
7. Explain mechanism of autoimmune diseases.
8. Explain chaperones and their importance.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

COMMUNITY MEDICINE

PAPER – I

(History of public health and community medicine, behavioural sciences and health, information, education, communication and counseling, microbiology including entomology, parasitology and immunology, environmental health and ecology, general epidemiology, biostatistics and research methodology)

Q.P. Code: 1229

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the steps in a 'cohort study'. Mention the advantages and disadvantages of a cohort study. Add a note on 'nested case control study'.
2. What is 'Qualitative Research'? How it differs from 'Quantitative research'? Discuss various research methods used for the conduction of 'Qualitative research'.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss 'nonparametric tests' of statistical significance.
4. Describe indices of 'Thermal Comfort' in comfort zone.
5. Discuss 'Operational Research' and its role in health services.
6. List the levels of prevention. Explain 'Primary Prevention' with suitable examples.
7. Discuss urbanization and health.
8. Enumerate indicators in the 'Kala Azar' elimination. Write control measures adopted in India against 'Kala Azar'

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ANAESTHESIOLOGY

PAPER – I

(Basic Science as applicable to Anaesthesia)

Q.P. Code: 1233

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Illustrate the physiology of neuromuscular transmission and interpretation of the different monitoring techniques of neuromuscular blocks.	(8+12)
2. Describe anatomy of epidural space and explain in detail the role of epidural labour analgesia.	(5+15)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss minimum alveolar concentration. Brief the factors affecting it.	
4. Compare a contrast Ethomidate and Propofol.	
5. Discuss the anaesthetic machine check protocol.	
6. Appraise the contribution of Sir Ivan Magill.	
7. Discuss anaesthesia problems of surgery in prone position.	
8. Explain the importance of informed consent.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER – I

(Basic sciences as applied to Dermatology, Venereology and Leprosy)

Q.P. Code: 1237

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the pathology and physiology of pruritus and mention the various causes of pruritus. (7+7+6)
2. Discuss various serological diagnosis of connective tissue disorders and their applications. (15+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. What are Superantigens and their role in dermatological disorders? (3+3)
4. Uses of Stem cells in dermatology.
5. Advantages of Armadillo versus primates in Leprosy.
6. Discuss various stains and their applications in dermatology. (6+4)
7. Discuss manifestations of Cytomegalovirus infections.
8. Describe Photodynamic therapy and their uses in dermatology. (5+5)

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL MEDICINE

PAPER – I

*(Basic sciences, current advances in genetics,
nutrition and clinical pharmacology)*

Q.P. Code: 1241

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define shock & discuss its various types. How to manage a case of septic shock. (2+8+10)
2. Explain conduction system of heart. Enumerate different types of tachyarrhythmia. How will you manage pulseless ventricular tachycardia? (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Role of plasmapheresis in medicine.
4. What is meant by drug repurposing? Give some examples. (5+5)
5. Discuss frailty in elderly.
6. Discuss nutrition in critically ill patient.
7. Role of ambulatory B.P. monitoring in hypertension.
8. Discuss the role of Interleukin 6 in viral infections. Write a note on IL 6 inhibitors. (5+5)

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PAEDIATRICS

PAPER – I

(Fetus and Newborn)

Q.P. Code: 1245

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. a. Describe CSF circulation. (2+2+2+4+5+5)
b. Enumerate neural tube defects.
c. Discuss etiology, clinical features, diagnosis and management of congenital hydrocephalus.
2. a. Describe development of fetal urinary tract. (4+4+4+4+4)
b. Mention developmental abnormalities of urinary tract.
c. Describe clinical features, investigations and management of posterior urethral valves.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss physiology of lactation and factors affecting it.
4. Discuss the problems and management of Infant of diabetic mother.
5. Management of neonatal thrombocytopenia.
6. Discuss rescue hypothermic neuroprotection.
7. Prenatal steroid therapy: advantages and implications on newborn.
8. Risk factors and approach to congenital deafness.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PSYCHIATRY

PAPER – I

(Basic Sciences as related to Psychiatry)

Q.P. Code: 1249

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Draw a neat diagram and discuss the functions of frontal lobes. (10+10)
2. Describe various defence mechanisms, their clinical applications and relevance. (10+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe Dopamine.
4. Explain doctor-patient relationship.
5. Discuss stages of death and dying.
6. Write a note on insight and judgment.
7. Briefly describe Rorschach test.
8. Explain mean, mode & median.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RADIO-DIAGNOSIS

PAPER – I

*(Basic Sciences as applied to Radio-diagnosis and
Basics of Ultrasound, CT, Nuclear Medicine and MRI)*

Q.P. Code: 1253

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the anatomy of the orbit. Discuss the role of imaging in the evaluation of orbital masses.
2. Describe the radiological anatomy of larynx and various imaging methods of larynx.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Views for petrous bone.
4. Discuss computerized radiography.
5. Role of cardiac MR imaging.
6. Discuss Transcranial Doppler.
7. Discuss types of MR contrast media and their mechanism of action.
8. What is HEEL effect?

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RESPIRATORY MEDICINE

PAPER – I

(Basic sciences including anatomy and physiology pertaining to respiratory system)

Q.P. Code: 1257

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss in detail the respiratory muscles and control of breathing. (10+10)
2. Discuss in detail the segmental anatomy of lung and its applied aspect. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss causes of finger clubbing and its interpretation.
4. Discuss oxygen dissociation curve.
5. Discuss pulsus paradoxus.
6. Discuss Interleukin 2.
7. Role of total lung capacity in diagnostic evaluation.
8. Clinical applications of Swan-Ganz catheter

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL SURGERY

PAPER – I

(Basic Sciences)

Q.P. Code: 1261

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define and classify shock. Discuss evaluation and management of hypovolemic shock in case of blunt trauma abdomen. (5+5+10)
2. Describe surgical anatomy of Thoracic inlet. Classify cervical rib. Discuss clinical features, investigations and management of cervical rib. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss newer treatment modalities of diabetic foot.
4. Describe molecular targeted therapy in cancer.
5. Massive blood transfusion.
6. Skin bank.
7. Discuss metabolic acidosis in surgical patient.
8. Discuss importance of informed consent of patient.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OBSTETRICS AND GYNAECOLOGY

PAPER – I

(Basic Sciences and medical genetics)

Q.P. Code: 1265

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Enumerate the causes of abnormal uterine bleeding in adolescent and discuss its evaluation and management. (10+10)
2. Define gestational thrombocytopenia and how will you manage a patient of idiopathic thrombocytopenic purpura with term pregnancy. (5+15)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe the classification of Mullerian anomalies.
4. Describe the procedures for cervical conization and its complications. (5+5)
5. Discuss role of prostaglandins in obstetrics.
6. Describe the composition and benefits of colostrum. (5+5)
7. Discuss in detail the follow up of a case of Gestational Trophoblastic disease.
8. Discuss the clinical features and diagnosis of Down's syndrome. (5+5)

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OPHTHALMOLOGY

PAPER – I

*(Basic Sciences, optics and refraction, ocular motility and strabismus,
Ocular pharmacology, instrumentation and investigations in ophthalmology)*

Q.P. Code: 1269

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the anatomy and blood supply of optic nerve. (10+10)
2. Describe the structure and development of crystalline lens and congenital abnormalities associated with it. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe theories of accommodation, clinical importance of accommodative –convergence over accommodation (AC/A) ratio. (5+5)
4. Discuss blood aqueous barrier and its clinical importance. (5+5)
5. Histopathology of sympathetic ophthalmitis.
6. Principle and uses of ultrasound biomicroscopy.
7. Uses of antimetabolites in ophthalmology.
8. Discuss the pupillary pathway for light reflex. Add a note on RAPD.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ORTHOPAEDICS

PAPER – I

(Basic and clinical sciences as applied to orthopaedics)

Q.P. Code: 1273

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe anatomy of Rotator Cuff and discuss clinical features and management of supraspinatus tear.	(10+5+5)
2. Describe etiopathology of septic arthritis of hip and its management.	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe the etiology, clinical features and management of Myositis Ossificans.	
4. Describe the stages of fracture healing and discuss about causes, clinical features and management of Nonunion.	
5. Define Sequestrum, types, clinical features and management of osteomyelitis.	
6. Describe the uses and complications of Bone cement.	
7. Describe in brief Cauda Equina Syndrome, clinical features and management of the same.	
8. Describe the anatomy and blood supply of Scaphoid.	

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OTORHINOLARYNGOLOGY

PAPER – I
(Basic Sciences)

Q.P. Code: 1277

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Illustrate the levels of neck nodes. Describe TNM staging of cervical lymph nodes.	(15+5)
2. Describe in detail the physiology of balance. Add a note on bio-chemical composition of inner ear fluids.	(15+5)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Summarize the clinical importance of Korner's septum in clinical practice.	
4. Explain indications and complications of Brachy therapy.	(5+5)
5. Explain indications and contraindications of Deflazocort.	(5+5)
6. Summarize physiology of bone conduction.	
7. Extrapolate Adenovirus in ENT practice.	
8. Discuss the clinical features, investigations and management of Cold abscess.	(3+3+4)

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN CLINICAL PATHOLOGY (DCP)

PAPER – I

(General Pathology including Basic Microbiology)

Q.P. Code: 1281

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define Apoptosis. Describe the biochemical changes and molecular mechanisms of Apoptosis. (1+4+15)
2. Name the various tumour suppressor genes. Discuss their mechanism of action and associated human tumours.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss mechanism of chemotaxis.
4. Discuss genomic imprinting.
5. Discuss serological tests for Syphilis.
6. Discuss radiation injury.
7. Discuss air embolism.
8. Discuss Tumour immunity.

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN OBSTETRICS AND GYNAECOLOGY (D.G.O)

PAPER – I

(Basic Sciences related to Obstetrics and Gynaecology)

Q.P. Code: 1299

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the physiology of normal ovulation? Diagnosis and management of an ovulatory infertility? (10+5+5)
2. Development of placenta and placental abnormalities detected after birth and their significance. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss the physiology of lactation and drugs used for suppression of lactation.
4. Discuss the nutritional requirements in pregnancy and its clinical implications.
5. Describe 11 to 14 weeks obstetric scan and elaborate on fetal nuchal translucency thickness (NT)
6. Define asymptomatic bacteriuria in pregnancy, its diagnosis and rationale for treatment.
7. Describe the pregnancy categories of drug and add a note on teratogenicity.
8. Congenital adrenal hyperplasia: discuss its clinical manifestation and role of newborn screening.

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN OPHTHALMOLOGY (D.O)

PAPER – I

(Basic sciences, optics and refraction, strabismus and pediatric ophthalmology, ocular pharmacology, instrumentation and investigations in ophthalmology)

Q.P. Code: 1311

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the anatomy and embryology of crystalline lens and explain metabolism of crystalline lens. (8+7+5)
2. Describe aqueous humor formation, drainage and blood aqueous barrier. Analyze physiological factors for maintenance of normal intraocular pressure. (12+8)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss clinical features and management of Zonular cataract. (5+5)
4. Discuss indications for therapeutic contact lens.
5. Discuss application of anterior segment OCT.
6. Enumerate types and components of Duane's retraction syndrome. (5+5)
7. Describe the indication and method of impression cytology. (5+5)
8. Write signs and symptoms of higher order aberrations. (5+5)

**FIRST SEMESTER – BACHELOR OF PUBLIC HEALTH
BACHELOR OF PUBLIC HEALTH (HONS)
DEGREE EXAMINATION – MAY 2021**

Time: 3 Hours

Max. Marks: 80

**HUMAN BIOLOGY-I
(Anatomy, Physiology & Biochemistry)**

Q.P. Code:1851

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 10 = 20
1. Explain the conducting system of the heart with a neat-labelled diagram. Write about SA node and A-V nodal delay	(4+3+3)
2. Classify carbohydrates. Give examples for each class. Add note on the function of each example.	
SHORT ESSAY QUESTIONS:	8 X 5 = 40
3. Classify protein and write about the physical and chemical properties of proteins	
4. Enumerate the functions of blood and its composition.	
5. Write a note on Jaundice.	
6. Functions of Saliva.	
7. Functions of HCL.	
8. Give the classification of bones.	
9. Draw labeled diagram of cardiac muscle. Discuss its properties.	
10. Deglutition and its significance.	
SHORT ANSWER QUESTIONS:	10 X 2 = 20
11. Define amino acids. Give an example.	
12. Define fatty acids. Give an example.	
13. Classify the cytoplasmic organelles.	
14. Write the important difference between DNA and RNA	
15. Name any four endocrine glands.	
16. Define ECG and give its examples	
17. What are the parts of the respiratory system?	
18. Difference between Red and Yellow bone marrow.	
19. What is endoplasmic reticulum?	
20. Write the names of the organs of the gastro intestinal system	

**FIRST SEMESTER - MASTER OF PUBLIC HEALTH (RS 2)
MASTER OF PUBLIC HEALTH IN EPIDEMIOLOGY
MASTER OF PUBLIC HEALTH IN HEALTH ECONOMICS
DEGREE EXAMINATION – MAY 2021**

Time: 3 Hours

Max. Marks: 80

RESEARCH METHODS (QUALITATIVE & QUANTITATIVE)

Q.P. Code:1801

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 15 = 30

1. Define sampling. Discuss various sampling methods suitable for 'Qualitative Research' with examples. (3+12)
2. Classify analytical study designs. Explain any one analytical study designs in detail. (3+12)

SHORT ESSAY QUESTIONS:

5 X 10 = 50

3. What is '2 X 2 Factorial Design'? Discuss different types of factorial designs with appropriate examples.
4. Define research question and research hypothesis. Explain the steps of developing research question with an example.
5. Define variables. Discuss on different types of variables with suitable example.
6. Write in brief about participant observation in qualitative research.
7. Define data. Discuss about data documentation and data management in research studies.

**FIRST SEMESTER - M.Sc. NUTRITION AND DIETETICS
DEGREE EXAMINATION – MAY 2021**

Time: 3 Hours

Max. Marks: 80

HUMAN PHYSIOLOGY AND NUTRITION SCIENCE

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

Use separate answer books for Section A and Section B

SECTION A : HUMAN PHYSIOLOGY Q.P. CODE : 1951 [35 Marks]

Question Number	Marks
LONG ESSAY QUESTIONS:	1 X 15 = 15
1. Describe in detail the mechanism of respiration. List the functions of respiratory system.	(10+5)
SHORT ESSAY QUESTIONS:	2 X 10 = 20
2. Define neuron. Give classification of nerve fibres.	(2+8)
3. Define blood pressure. Mention the factors affecting blood pressure. Add a note on hypertension.	(2+5+3)

SECTION B : NUTRITION SCIENCE...Q.P. CODE : 1952 [45 Marks]

Question Number	Marks
LONG ESSAY QUESTIONS:	1 X 15 = 15
1. a) Define RDA (Recommended Dietary Allowances) and explain the factors affecting it.	(10+5)
b) How are RDA's used in the planning of balanced diets.	
SHORT ESSAY QUESTIONS:	6 X 5 = 30
2. Define fluorosis. What are the causes and manifestations of fluorosis?	
3. Absorption and deficiency of Calcium	
4. Sources and deficiency of Vitamin 'C'	
5. Nutritional importance of lipids	
6. Importance of dietary fibres	
7. Electrolyte composition of body fluids.	

**FIRST SEMESTER - M.Sc. PSYCHOLOGY
DEGREE EXAMINATION – MAY 2021**

Time: 3 Hours

Max. Marks: 80

HISTORICAL PERSPECTIVES OF PSYCHOLOGY

Q.P. Code: 1931

Answers should be specific to the Questions asked.

Draw neat & labeled diagrams wherever necessary.

All the questions are compulsory.

Question Number	Marks
1a. Describe the psychoanalytic perspective on personality. Or	15
1b. Explain Jung's contribution for the personality theory.	
2a. Discuss Classical conditioning along with its therapeutic application. Or	15
2b. Discuss contribution made by Mowrer for personality theory.	
3a. Discuss the theory of motivation by Maslow. Or	15
3b. Explain the views and constructs of existential approach.	
4a. With suitable examples, explain cognitive balance and dissonance theories. Or	15
4b. Examine the indigenous perspectives related to personality.	

Write short notes on any Four of the following

4 X 5 = 20

5. Drives and incentives theory by Hull.
6. Kelly's personal construct.
7. McClelland.
8. Indigenous healing techniques.
9. Buddhist healing techniques.
10. ERG theory.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PATHOLOGY

PAPER – II

*(Hematology / Clinical Pathology / Cytology / Transfusion Medicine
Recent Advances and applied pathology)*

Q.P. Code: 1214

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Explain FNAC if salivary gland lesions?
2. Point out indications, types, investigations and complications of Hematopoietic stem cell transplantations. (5+5+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Explain Leukapheresis with emphasis on methods and uses. (5+5)
4. Point out indications and explain role of Trepine biopsy of bone. (4+6)
5. Explain squash cytology in CNS lesions.
6. Explain Sideroblastic anemia: pathophysiology and lab diagnosis for the same. (5+5)
7. Explain lab diagnosis of Haemophilia.
8. Explain significance of calibration in blood bank.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

COMMUNITY MEDICINE

PAPER – II

(Diet and nutrition in health and diseases, epidemiology of communicable and non-communicable diseases, occupational health)

Q.P. Code: 1230

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define 'Obesity'. Discuss the epidemiological determinants and various prevention and control measures of 'childhood obesity'.
2. Discuss the epidemiology of 'COVID-19' and various prevention and control measures adopted by India.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Define sickness absenteeism? Describe its incidence, causes and prevention.
4. Discuss the role of 'Nutritional Rehabilitation Centre'.
5. Discuss 'non-pharmacological interventions' against an airborne infection.
6. Discuss circulating 'Vaccine Derived Polio Virus' (cVDPV) and measures to minimize its threats.
7. Discuss adult immunization in India.
8. Describe Rodent control measures.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ANAESTHESIOLOGY

PAPER – II

(Clinical Practice of Anaesthesia)

Q.P. Code: 1234

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Enumerate the physiological changes in elderly. Discuss the anaesthetic management of 80 years old for fracture femur reduction.	(10+10)
2. Analyze the anaesthetic conditions in a pediatric patient. Discuss the anaesthetic management of one day premature baby for Tracheo-oesophageal fistula repair.	(8+12)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Assess the anaesthetic implications and strategy in a patient with coronary stent.	
4. Analyze the causes, precautions and treatment of post dural puncture headache.	
5. Discuss the causes, detection and treatment of Venous Air Embolism.	
6. Evaluate the causes and treatment of Hypokalaemia.	
7. Discuss in brief obstructive sleep apnoea.	
8. Discuss the discharge criteria for day care surgery.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER – II
(Dermatology)

Q.P. Code: 1238

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe the clinical features and management of Xanthomatosis.	(10+10)
2. Discuss the clinical features and management of various pregnancy dermatosis.	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss various types of calcinosis cutis and their clinical applications.	(5+5)
4. Clinical features and management of Kawasaki's disease.	(5+5)
5. Aetiology and treatment of Pustular eruptions of palms and soles.	(5+5)
6. Classify Mastocytosis and their brief clinical features.	(5+5)
7. Eye manifestations of various skin disorders.	(5+5)
8. Discuss Drug Hypersensitivity syndrome and their manifestations.	(5+5)

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL MEDICINE

PAPER – II

(Cardio-vascular system, gastro intestinal system, Hepatobiliary, pancreatic disorders, infectious diseases including tropical medicine)

Q.P. Code: 1242

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe etiological factors in hypertensive emergencies. Discuss investigations, treatment & complications in hypertensive encephalopathy. (5+5+5+5)
2. Discuss bilirubin metabolism. How to approach a patient with hyperbilirubinaemia. What is the role of discriminant functions (DF) value in treatment? (5+10+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Clinical features and management of Weil's disease.
4. Discuss heart failure with reduced ejection fraction with pharmacotherapy of Refractory Heart failure. (5+5)
5. Describe clinical features, diagnosis and management of Abdominal tuberculosis. (3+3+4)
6. Discuss etiology, clinical features & management of Chikungunya fever. (3+3+4)
7. Write a note on Cardiac Resynchronization Therapy.
8. Discuss clinical features, investigations and management of GERD. (3+3+4)

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PAEDIATRICS

PAPER – II

(General Pediatrics I)

Q.P. Code: 1246

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. a. Discuss pulmonary function tests in children.
b. Evaluation and approach to interstitial lung disease in children. (5+5+10)
2. a. Enlist causes of headache in children.
b. Outline an approach for a 10 year old child with headache. Add a note on migraine. (4+12+4)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Diagnosis and management of an unconscious child.
4. Aetiopathogenesis, clinical manifestations, diagnosis and treatment of Hypercalcemia.
5. Discuss precocious puberty.
6. Define tumour lysis syndrome. Enlist its important constituents.
7. Management of puberty goiter.
8. Management of diabetic ketoacidosis.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PSYCHIATRY
PAPER – II

Q.P. Code: 1250

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	
2 X 20 = 40	
1. Discuss the differential diagnosis and management of the patient presenting with catatonia.	(10+10)
2. Describe clinical features and differential diagnosis of Obsessive Compulsive Disorder and discuss the non-pharmacological management of O.C.D.	(8+6+6)
SHORT ESSAY QUESTIONS:	
6 X 10 = 60	
3. Discuss management of erectile dysfunction.	
4. Enumerate methods to improve compliance of patients.	
5. Describe chronic fatigue syndrome.	
6. Describe borderline personality disorder.	
7. Explain testamentary capacity.	
8. Write briefly about yoga therapy.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RADIO-DIAGNOSIS

PAPER – II

(Cardiovascular system, respiratory system, GIT including hepato biliary, endocrine, chest mammography, lymphatic system, arteriography, phlebograph)

Q.P. Code: 1254

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the sequence used in MR cholangiogram and advantages of MRCP.
How would you investigate a case of obstructive jaundice?
2. Describe the principles of mammography and radiological appearances of various breast pathology.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Imaging pseudoaneurysm of popliteal artery.
4. Discuss mitral stenosis.
5. Imaging in Cushing's syndrome.
6. Discuss Meckel's diverticulum.
7. Imaging in Rheumatoid arthritis.
8. Discuss gastro intestinal stromal tumors.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RESPIRATORY MEDICINE

PAPER – II

(Non-tubercular Respiratory Diseases)

Q.P. Code: 1258

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe in details about etiology, diagnosis and treatment of pulmonary embolism. (6+6+8)
2. Describe clinical features, etiology, investigation and management of malignant pleural effusion. (5+5+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Acute exacerbation of COPD.
4. Intracavitary Mycetoma.
5. Discuss Leukotriens Antagonist.
6. Discuss Lofgren's Syndrome.
7. Discuss Catamanial hemoptysis.
8. Discuss Immotile-Cilia syndrome.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL SURGERY

PAPER – II

(Head & neck, adrenal gland, breast, thorax, heart and pericardium)

Q.P. Code: 1262

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe surgical anatomy of breast. Discuss clinical features, investigations and management of stage II carcinoma breast in a 50 years old female. (5+5+10)
2. Describe the aetiopathogenesis, clinical features and management of carcinoma of buccal mucosa in a 40 years old male. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe embryology and treatment of thyroglossal cyst.
4. Management of medullary carcinoma of thyroid.
5. Clinical features and management of tension pneumothorax.
6. Discuss clinical features and management of Pleomorphic adenoma.
7. Discuss clinical features and management of Zenker's diverticulum.
8. Management of cleft lip.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OBSTETRICS AND GYNAECOLOGY

PAPER – II

(Clinical Obstetrics)

Q.P. Code: 1266

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Discuss the causes, diagnosis and management of retained placenta.	(5+5+10)
2. Describe the causes of DIC in pregnancy. How will you manage a patient with DIC in labour?	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss the etiology, clinical manifestations and management of Peripartum cardiomyopathy.	(3+2+5)
4. Discuss the etiology and management of a case of intrauterine fetal demise.	(5+5)
5. Describe the clinical complications of hypothyroidism in pregnancy and also discuss the management.	(5+5)
6. Describe the classification and interpretation of non-stress test.	(5+5)
7. Discuss the diagnostic criteria and management of a case of twin-twin transfusion syndrome.	(3+3+4)
8. Discuss the diagnosis and management of a case of prolonged second stage of labour.	(4+6)

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OPHTHALMOLOGY

PAPER – II

(Clinical Ophthalmology covering diseases of the eye: disorders of conjunctiva, cornea, sclera, uvea, lens, glaucoma, retina, optic nerve and clinical ophthalmology covering diseases of the adnexia: disorders of lids, lacrimal system, orbit)

Q.P. Code: 1270

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. A 50 year old male presented with unilateral recurrent attacks of elevated intra ocular pressure. On examination there is no congestion, mild anterior chamber inflammation and keratic precipitates are noted on cornea. Discuss differential diagnosis and management. (10+10)
2. Write differential diagnosis of Peripheral ulcerative keratitis. Write a short note on Mooren's ulcer. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss investigations and management of Keratoconus.
4. Branch Retinal Vein Occlusion management and branch retinal vein occlusion trails. (5+5)
5. Discuss Irido corneal Endothelial syndrome.
6. Discuss Serpiginous Choroiditis. Write a short note on Photo Dynamic Therapy (PDT).
7. Classification of retinoblastoma and write a short note on Primitive Neuro Ectodermal Tumour (P-NET).
8. Discuss Ocular Surface Squamous Neoplasia (OSSN).

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ORTHOPAEDICS

PAPER – II

(General Orthopaedics)

Q.P. Code: 1274

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	
	2 X 20 = 40
1. Classify supracondylar fractures of humerus in children and describe management of malunited supracondylar fractures of humerus.	(10+10)
2. Classify subtrochanteric fracture of femur. Discuss its management.	(10+10)
SHORT ESSAY QUESTIONS:	
	6 X 10 = 60
3. Classify fractures. Discuss the different modalities of fracture treatment in children.	
4. Discuss the etiology, clinical features and management of Baker's Cyst.	
5. Discuss the etiology, clinical features and management of Volkmann's Ischemic Contracture.	
6. Classify Monteggia's fracture. Describe the clinical features and management of Monteggia's fracture.	
7. Define Traction. Discuss the types of traction, its indications and complications.	
8. Describe the etiology of Cubitus varus and its management.	

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OTORHINOLARYNGOLOGY

PAPER – II

(Otology including recent advances)

Q.P. Code: 1278

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the assessment and management of pre-lingual deafness in a 2 year old child. (10+10)
2. Describe clinical features and management of Glomus jugulotympanicum. (8+12)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Explain the tests for facial nerve function.
4. Summarize the origin and clinical importance of OTO Acoustic Emissions. (5+5)
5. Explain the clinical features and management of noise induced hearing loss. (4+6)
6. Discuss the clinical features and management of Bell's palsy. (5+5)
7. Describe the techniques of cochlear implantation.
8. Extrapolate the types of Myringotomy tube and their uses. (5+5)

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN CLINICAL PATHOLOGY (DCP)

PAPER – II

(Systemic Pathology)

Q.P. Code: 1282

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. What is an atheroma? Discuss various risk factors and pathogenesis of atherosclerosis and its consequences. (2+5+10+3)
2. Discuss the etiopathogenesis and pathology of carcinoma of uterine cervix. Describe various techniques for testing of HPV. (15+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss Giant cell tumour of bone.
4. Discuss the premalignant lesions of prostate.
5. Discuss MEN syndromes.
6. Discuss vesiculobullous lesions of skin.
7. Describe the mechanism of glomerular injury.
8. Discuss interstitial diseases of lung.

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN OBSTETRICS AND GYNAECOLOGY (D.G.O)

PAPER – II

(Obstetrics including social obstetrics and diseases of newborn)

Q.P. Code: 1300

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the etiology, pathology, clinical features and management of hyperemesis gravidarum. (5+5+5+5)
2. Discuss the indications of induction of labor? Critically evaluate the different methods used for induction of labor. (5+15)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss regarding the patient selection criteria and intrapartum management in a case for TOLAC (trial of labor after cesarean).
4. Describe the complications and management of obesity in pregnancy.
5. Define retained placenta and add a note on its management.
6. Describe maternal near MISS and discuss the approaches to reduce maternal morbidity and mortality in resource limited settings.
7. Discuss the pathophysiology and clinical features of hypoxic ischemic encephalopathy (HIE).
8. Discuss the diagnosis and management of occipito posterior position and add a note on its complications.

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN OPHTHALMOLOGY (D.O.)

PAPER – II

(Clinical Ophthalmology I : Disorders of conjunctiva, cornea, sclera, uvea, lens, glaucoma, retina, optic nerve and Clinical Ophthalmology II: Diseases of the optic nerve, disorders of lids, lacrimal system, orbit, ophthalmic oncology, ocular trauma)

Q.P. Code: 1312

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Discuss the causes, clinical features and management of dry eye.	(7+7+6)
2. Discuss the classification diagnosis and management of primary angle closure glaucoma.	(7+7+6)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe types, evaluation and management of ptosis.	(2+4+4)
4. Describe clinical features and treatment of necrotizing scleritis.	(5+5)
5. Explain clinical features and management of Choroidal malignant melanoma.	(5+5)
6. Summarize mechanism, clinical features and treatment of blow out fracture of orbit.	(3+3+4)
7. Discuss causes, clinical features of granulomatous uveitis.	(5+5)
8. Discuss causes, clinical features and treatment of neovascular glaucoma.	(3+3+4)

**FIRST SEMESTER - MASTER OF PUBLIC HEALTH (RS 2)
MASTER OF PUBLIC HEALTH IN EPIDEMIOLOGY
MASTER OF PUBLIC HEALTH IN HEALTH ECONOMICS
DEGREE EXAMINATION – MAY 2021**

Time: 3 Hours

Max. Marks: 80

HEALTH CARE DELIVERY SYSTEM

Q.P. Code:1803

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 15 = 30
1. Write the organizational structure of National Vector Borne disease Control programme. What are the public health activities conducted under this programme?	(5+10)
2. Explain in detail about health administration system in India. Add a note on 3- tier system of Health care.	(10+5)
SHORT ESSAY QUESTIONS:	5 X 10 = 50
3. Explain in brief about 'National Population Policy 2000'.	
4. Describe the strengths and weaknesses of National Leprosy Eradication Programme.	
5. Integrated child development scheme should be continued for the reduction of prevalence of malnutrition among under five children. Justify.	
6. Discuss the global health agenda for 21 st century.	
7. Primary health centre is a backbone of primary health care in India. Explain.	

**FIRST SEMESTER - M.Sc. PSYCHOLOGY
DEGREE EXAMINATION – MAY 2021**

Time: 3 Hours

Max. Marks: 80

BIOPSYCHOLOGY

Q.P. Code: 1933

Answers should be specific to the Questions asked.

Draw neat & labeled diagrams wherever necessary.

All the questions are compulsory.

Question Number	Marks
1a. Explain briefly methods of Studying Brain. Or	15
1b. Describe the effects of endocrine glands.	
2a. Delineate the types and functions of Neurotransmitters. Or	15
2b. Bring out the neurological factors related to Alzheimer's disease and Multiple sclerosis.	
3a. What is chromosome? Explain chromosomal functions and abnormalities. Or	15
3b. What are the methods used to study genetic determinants?	
4a. Discuss the current researches in evolutionary bio psychology. Or	15
4b. Elucidate the side effects of drug-based medication.	

Write short notes on any Four of the following

4 X 5 = 20

5. Scope of biopsychology.
6. Types of Neurons.
7. Eugenics.
8. Instincts.
9. Principles of evolution.
10. Ethical issues in psycho pharmacology.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PATHOLOGY

PAPER – III

*(Systemic Pathology – Cardio vascular system, respiratory system,
gastro-intestinal system including liver & biliary tract, pancreas, renal system, male and
female genital system and breast. Recent advances and applied pathology)*

Q.P. Code: 1215

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams and flow charts wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Classify lung tumors. Explain lung tumors and explain the morphology with reference of tumor markers in diagnosis.	(5+7+8)
2. Define Cirrhosis. Explain in detail pathogenesis and classification of cirrhosis and point out the important complications.	(10+5+5)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Explain functional tumor of ovary with description of each.	(5+5)
4. Explain pathogenesis of Atherosclerosis.	
5. Explain molecular testing for HPV.	
6. Explain tumours of exocrine pancreas.	
7. Explain pathogenesis of renal calculi and its complications.	
8. Explain tensins in renal diseases.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

COMMUNITY MEDICINE

PAPER – III

*(Maternal health, child health, demography and family welfare, care of special groups
viz. school health, adolescent health and geriatrics, care of disabled, community based rehabilitation,
tribal health, desert medicine, public health emergencies and calamities)*

Q.P. Code: 1231

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define and classify 'Disaster'. Discuss the elements of 'Disaster Management'. Add a note on disaster management cell at district level.
2. Explain in detail the factors that determine 'maternal deaths' and discuss the prevention and control measures with relevant national programs.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss backup contraception with suitable examples.
4. Discuss behavioural problems and their management in children.
5. Enlist fertility related indicators. Discuss Net Reproduction Rate (NRR) and Gross Reproduction Rate (GRR).
6. Discuss the role of 'school health services' in welfare of school children in India.
7. Discuss briefly about 'Community Based Rehabilitation' with suitable examples.
8. Write a plan to improve 'tribal health' in your state.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ANAESTHESIOLOGY
PAPER – III
(*Clinical Practice of Anaesthesia*)

Q.P. Code: 1235

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Outline the assessment and preparation in Myasthenia Gravis. Discuss the anaesthetic management of 30 year old Myasthenia patient for thymectomy.	(10+10)
2. Analyze the effects of diabetes mellitus on various organ systems. Write in brief their anaesthetic implications and perioperative glycemic control.	(8+12)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Enumerate the evoked potentials and their clinical uses.	
4. Discuss in brief the anaesthetic implications of cancer chemotherapy.	
5. Detect and devise management of postoperative pulmonary complications.	
6. Analyze the effects of stress response to surgery and brief the techniques for its management.	
7. Appraise the merits and demerits of autologous blood transfusion.	
8. Critique the uses and disadvantages of double lumen tubes.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER – III

(Venereology and Leprosy)

Q.P. Code: 1239

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss clinical features of Neurosyphilis, its diagnosis and management. (8+6+6)
2. Discuss various opportunistic infections in HIV/AIDS and their management. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss various culture media of Neisseria Gonorrhoeae.
4. Discuss various differences of Resistance Vs. Relapse in Leprosy.
5. Write briefly about immune reconstitution syndrome and their management. (5+5)
6. What is Dapsone syndrome, how do you manage it. (5+5)
7. Clinical features diagnosis and management of Trichomoniasis in females. (3+3+4)
8. Discuss about the limitations of Fixed Duration Multidrug Therapy in Leprosy.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL MEDICINE

PAPER – III

*(Central nervous system, respiratory system, immune system,
connective tissue and joint disorders)*

Q.P. Code: 1243

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Explain APLA syndrome under following titles- (5+5+5+5)
 - a. Definition and pathophysiology
 - b. Clinical features
 - c. Treatment strategies.
 - d. Role of novel anticoagulants.
2. Discuss Myasthenia gravis with its pathophysiology, clinical features, (5+5+5+5)
diagnosis & treatment.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss clinical presentation, complications & management of TBM. (3+3+4)
4. Classify Bronchopulmonary Aspergillosis. Discuss clinical features, (2+2+3+3)
diagnostic criterias & treatment for the same.
5. Enumerate causes of hemoptysis. Discuss the role of bronchoscopy in (3+7)
respiratory disorders.
6. Discuss etiology, clinical features, investigations & treatment of tension (2+2+3+3)
Pneumothorax.
7. Deep Brain Stimulation.
8. Write a note in immunomodulators.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PAEDIATRICS

PAPER – III

(General Paediatrics – II)

Q.P. Code: 1247

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Outline the aetiopathogenesis of chronic diarrhea. Discuss clinical features, investigation & management of chronic diarrhea. (6+4+5+5)
2. Discuss hemodynamics of Tetralogy of Fallot. Outline management of hypercyanotic spell in a 2 year old child. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss etiology, pathogenesis & prevention of pertussis.
4. Discuss clinical presentation, investigation and management of multidrug resistant TB.
5. Discuss etiology, clinical features and management of recurrent urinary tract infection in children.
6. Describe aetiopathogenesis and management of hearing impairment in a 3 year old child.
7. Clinical features and management of Iron poisoning.
8. Discuss causes, clinical features and management of Steven-Johnson syndrome.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PSYCHIATRY

PAPER – III

(Psychiatric Theory and psychiatric specialties)

Q.P. Code: 1251

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the assessment, differential diagnosis and management of a 7 year old child refusing to go to school. (6+6+8)
2. Discuss the advantages and disadvantages of using newer atypical antipsychotic medications. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe premenstrual dysphoric disorder.
4. Discuss role of Lithium carbonate.
5. Discuss role of hypnosis in psychiatric practice.
6. Explain informed consent.
7. Discuss management of Enuresis.
8. Describe brief psychiatric rating scale.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RADIO-DIAGNOSIS

PAPER – III

(Genitourinary, retroperitoneum, musculoskeletal system, Obstetrics & Gynaecology)

Q.P. Code: 1255

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Classify ovarian tumors. Discuss the role of imaging in the evaluation of malignant ovarian tumors.
2. Discuss posterior fossa tumors.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss periosteal reaction.
4. Discuss various imaging features of Ectopic pregnancy.
5. Discuss Follicular monitoring.
6. Discuss scrotal masses on USG.
7. Discuss Osteogenesis imperfecta.
8. Role of CT imaging in retroperitoneal fibrosis.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RESPIRATORY MEDICINE

PAPER – III

(Tuberculosis – Pulmonary and extra pulmonary, and General Medicines)

Q.P. Code: 1259

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe surgical aspects of tuberculosis and its complications. (12+8)
2. Describe tubercular ascites and its management. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Fall and rise in tuberculosis.
4. Sputum follow-up in RNTCP/NTEP.
5. Discuss Bedaquiline.
6. Describe clinical significance of CBNAAT (Cartridge Based Nucleic Acid Amplification test).
7. Discuss Simon's focus.
8. Discuss silicotuberculosis.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL SURGERY

PAPER – III

(Abdomen & Laproscopic Surgery)

Q.P. Code: 1263

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss embryology of vitellointestinal duct. Describe clinical presentation, complications, investigations and management of complications of Meckel's diverticulum. (5+5+10)
2. Discuss lifecycle of Echinococcus granulosus. Describe clinical features, investigations and management of Hydatid cyst in liver. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Component separation surgery for Ventral Hernia.
4. Role of self-expanding metal stents in Gastrointestinal tract.
5. Management of Grade 3 splenic injury.
6. Advantages and disadvantages of Robotic surgery.
7. Islet cell transplantation.
8. Management of short bowel syndrome.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OBSTETRICS AND GYNAECOLOGY

PAPER – III

(*Clinical Gynaecology*)

Q.P. Code: 1267

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the pathogenesis, microbiology and risk factors of pelvic inflammatory disease and elaborate upon its management. (10+10)
2. Discuss the epidemiology clinical features, diagnosis and management of a case of fibroid uterus. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss the ablative and excisive treatment of Cervical Intraepithelial Neoplasia (CIN). (5+5)
4. Discuss the clinical manifestations of a case of intrauterine adhesions add a note on its prevention and treatment. (5+5)
5. Describe the clinical manifestations and diagnosis of premature ovarian failure. (5+5)
6. Antiprogesterones: describe its mechanism of action and its uses in gynecology. (6+4)
7. Describe POP-Q classification and discuss its advantages and disadvantages. (8+2)
8. Discuss the diagnosis and management of Enterocele. (5+5)

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OPHTHALMOLOGY

PAPER – III

*(Ocular immunology, neuro-ophthalmology, paediatric ophthalmology,
systemic ophthalmology and recent advances)*

Q.P. Code: 1271

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss in detail conditions under phakomatosis. (5+5+5+5)
2. Discuss in detail Lens Induced Glaucoma. (5+5+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss various etiological causes of horizontal gaze abnormalities.
4. How do you investigate unilateral proptosis in 3 year old child?
5. Define and classify Amblyopia. Discuss about its investigations and management.
6. Discuss clinical features and treatment of Sclerokeratoiritis.
7. Presentation and management of post-operative endophthalmitis in pseudophakia. Write a short note on Endophthalmitis Vitrectomy Study (EVS). (5+5)
8. Write a note on Bionic eye.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ORTHOPAEDICS

PAPER – III

(Muscular-skeletal trauma)

Q.P. Code: 1275

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Classify osteomyelitis. Describe management of chronic osteomyelitis of long bones. (10+10)
2. Describe pathogenesis, clinical features and management of primary osteoarthritis of knee. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Define osteoporosis. Describe the clinical features and management of osteoporosis.
4. Describe the clinical features and management of Osteoid Osteoma.
5. Describe the etiology, clinical features and management of medial Meniscus tear.
6. Discuss the etiology and management of foot drop.
7. Discuss about SLRT (Straight Leg Raising Test).
8. Describe the clinical features and management of renal osteodystrophy.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OTORHINOLARYNGOLOGY

PAPER – III

(Rhinology including recent advances)

Q.P. Code: 1279

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the etiopathology and management of the malignant neoplasms of the maxillary sinus. (10+10)
2. Discuss the evaluation of nasal deformity, pre-operative workup and techniques of correction Rhinoplasty. (10+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Summarize the etiopathology and management of olfactory Neuroblastoma. (5+5)
4. Describe the investigations and management of orbital blow out fractures. (5+5)
5. Explain indications and technique of Trans-nasal Endoscopic Hypophysectomy. (5+5)
6. Discuss Bent-Kuhn criteria for Allergic Fungal Rhinosinusitis.
7. Discuss the indications, technique and complications of Ballon Sinusoplasty. (3+4+3)
8. Differentiate between Endoscopic Dacryocystorhinostomy and external Dacryocystorhinostomy.

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN CLINICAL PATHOLOGY (DCP)

PAPER – III

(*Haematology, Cytology, Clinical Pathology and Biochemistry*)

Q.P. Code: 1283

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Classify Leukemias. Write in detail about the etiopathogenesis, peripheral smear and bone marrow finding of Chronic Myeloid Leukemia. (5+15)
2. Enumerate all bleeding disorders. Discuss the laboratory investigations to differentiate bleeding disorders. (5+15)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss Paroxysmal Nocturnal Haemoglobinuria.
4. Discuss FNAC of salivary gland lesions.
5. Write briefly on Fanconi Anemia.
6. Discuss Bombay blood group.
7. Discuss quality control methods used in hematology analysis.
8. Discuss pathogenesis of Iron deficiency anemia.

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN OBSTETRICS AND GYNAECOLOGY (D.G.O)

PAPER – III
(Gynecology)

Q.P. Code: 1301

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. How will you investigate a case of female factor infertility? Discuss the management of tubal factor for infertility.	(10+10)
2. What are the causes of postmenopausal bleeding? What is new in the management of carcinoma endometrium?	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss the clinical manifestations and surgical management of a case of Nulliparous prolapse.	
4. Discuss the clinical presentation and management of haematocolpos.	
5. Laparoscopic sterilization- describe the procedure and the post sterilization complications.	
6. Discuss the evaluation and management of case of overactive bladder.	
7. Discuss about the HPV vaccine, it's dose, schedule, advantages and disadvantages.	
8. Describe the metabolic reproductive abnormalities associated with PCOS and add a note on insulin sensitizers.	

POST-GRADUATE DIPLOMA EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DIPLOMA IN OPHTHALMOLOGY (D.O.)
PAPER – III

*(Surgical ophthalmology, Neuro-ophthalmology, systemic ophthalmology,
Community ophthalmology, recent advances)*

Q.P. Code: 1313

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Summarize types of classification, clinical features of hypertensive retinopathy. Analyze management of BRVO (Branch retinal vein occlusion).	(7+7+6)
2. Discuss evaluation of a case of unilateral Proptosis. Explain orbitorimies.	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss advances in intraocular lenses with indications and contraindications.	(5+5)
4. Enumerate types and indications for anti VEGF drugs.	(5+5)
5. Describe when to do laser trabeculoplasty and its procedure.	(5+5)
6. Describe different types and uses of orbital implants.	(5+5)
7. Write clinical features and treatment of CMV retinitis.	(5+5)
8. Describe different types of preservation of donor cornea. Enumerate different indications for Keratoplasty.	(5+5)

**FIRST SEMESTER - M.Sc. PSYCHOLOGY
DEGREE EXAMINATION – MAY 2021**

Time: 3 Hours

Max. Marks: 80

RESEARCH METHODS

Q.P. Code: 1934

Answers should be specific to the Questions asked.
Draw neat & labeled diagrams wherever necessary.
All the questions are compulsory.

Question Number	Marks
1a. Explain the steps involved in research	
Or	15
1b. Define a variable. Explain types of variables.	
2a. Differentiate between parametric & non parametric lists	
Or	15
2b. Describe non-probability sampling methods	
3a. Discuss interview as a method as data collection	
Or	15
3b. Elaborate the salient features of Quasi Experimental Design	
4a. Explain any two non- experimental designs with an examples.	
Or	15
4b. Bring out the AYA guidelines for Report- Writing	

Write short notes on any Four of the following

4 X 5 = 20

5. Scientific method
6. Selection criteria for research problem
7. Type I and Type II Errors
8. Non probability curve
9. Types of hypothesis
10. Observation method

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

**PATHOLOGY
PAPER – IV**

*(Systemic Pathology – Central and peripheral nervous system, endocrine system,
Musculo-skeletal system, reticulo-endothelial system (lymph nodes, spleen and Thymus),
Dermatopathology and ophthalmic pathology, bone, joints and soft tissues.
Recent advances and applied pathology)*

Q.P. Code: 1216

Answers should be specific to the Questions asked.
Draw neat labeled diagrams and flow charts wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Explain the role of immunofluorescence in differential diagnosis of vesiculobullous lesions of the skin?	
2. Classify tumors of thyroid? Explain the morphology and recent trends in diagnosis of the tumors?	(5+10+5)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Explain pathology of Chondrosarcoma.	
4. Classify melanomas. Explain in brief role of immunohistochemistry in diagnosis.	(4+6)
5. Explain retinoblastoma with genetics and pathology.	(5+5)
6. Explain pathogenesis of Grave's disease. Describe the morphology and cytology of this.	(4+3+3)
7. Explain pathology of Alzheimer's disease.	
8. Classify Astrocytoma and explain the morphology.	(4+6)

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

COMMUNITY MEDICINE

PAPER – IV

(Health and hospital administration, health care delivery including national programmes, public health legislation, genetics and counseling, mental health, international health, voluntary health organizations, NGOs.)

Q.P. Code: 1232

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss India's progress towards providing 'Universal Health Coverage'.
2. Discuss the role of 'Non-Government Organizations (NGO's) in health. Explain the concept of 'Public Private Partnership' and outline the initiatives in Indian Context.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss 'management techniques' based on 'Behavioural sciences'.
4. Describe biomedical waste management amendment rules 2018 in India.
5. Describe Indian Public Health Standards for PHCs (IPHS).
6. Describe sustainable development goals with special reference to 'Health and Nutrition'.
7. Describe Hind Kustha Nivaran Sangh structure and functions.
8. Discuss Genetic counseling with suitable examples.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ANAESTHESIOLOGY
PAPER – IV
(Recent Advances in Anaesthesia)

Q.P. Code: 1236

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Enumerate the steps of cardiopulmonary resuscitation. Appraise the current guidelines of ACLS.	(10+10)
2. Compete the criteria for brain death? Discuss its clinical significance in organ transplant.	(10+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss Triage. Critique its importance in mass casualty.	
4. Outline the WHO regime for chronic pain management. Write in brief about the drugs used for chronic pain.	
5. Analyze the systemic response to sepsis and write in brief its management.	
6. Discuss role for EBM in anaesthetic practice.	
7. Enumerate the management of post-operative cognitive dysfunction.	
8. Explain in brief the types of non-invasive ventilation and its uses.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER – IV

*(Dermatology in relation to other systemic diseases, dermato-therapeutics,
dermato-surgery and recent advances in Dermatology, Venereology & Leprosy)*

Q.P. Code: 1240

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe various side effects of Glucocorticoids and how to prevent it. (12+8)
2. Describe the clinical features, diagnosis and management of Langerhans cell histiocytosis. (10+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Write briefly about Pseudoxanthoma Elasticum and its management. (6+4)
4. Role of TNF alpha inhibitors in dermatology.
5. Write briefly about uses of lasers in pigmentary dermatosis.
6. Discuss various Anti-Aging therapies.
7. Discuss briefly about Paraneoplastic syndrome.
8. Write briefly about skin manifestations in diabetics mellitus.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL MEDICINE

PAPER – IV

(Nephrology, endocrinology and metabolism, haematology, oncology,
dermatology and psychiatry, poisoning, environmental and occupational hazards)

Q.P. Code: 1244

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Enlist causes of hyperthyroidism. Describe etiopathology, clinical features, investigations & treatment of Grave's disease. (4+4+4+4+4)
2. Enumerate causes of CKD. Discuss classification with CKD staging. Write a note on complications of CKD. (5+7+8)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss etiopathogenesis, clinical features & management of Psoriasis (3+3+4)
4. Write a note on smoking cessation.
5. Discuss Addisonian crisis, investigations & management. (3+3+4)
6. Discuss etiology, evaluation & management in a case of morbid obesity. (3+3+4)
7. Discuss Haemoglobinopathies. Write in brief about beta thalassemia. (4+6)
8. Discuss Acute Myeloid Leukemia.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PAEDIATRICS

PAPER – IV

*(Ambulatory OPD Pediatrics, community and social pediatrics,
emergency and critical care pediatrics)*

Q.P. Code: 1248

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. a. Define under five mortality rate. (4)
b. Comment on its current status and aetiology in India. (6)
c. Outline important strategies undertaken by Government of India to improve under five child survival. (10)
2. a. Expand the acronym "ASHA" (4)
b. Outline the functions of ASHA. (6)
c. Discuss the potential impact of ASHA in improving the health status and wellbeing of a community. (10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. RNTCP and DOTS PLUS programme.
4. Management of acute sickle cell crisis.
5. Discuss mechanical ventilation.
6. Management of unconscious child.
7. Clinical features and management of snake bite.
8. Paediatrics health care priorities in next decade.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

PSYCHIATRY

PAPER – IV

*(Recent Advances in Psychiatry and applied Psychiatry related to
Neurology and Medicine)*

Q.P. Code: 1252

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss clinical features and the neuropsychiatric manifestations of Parkinson's disease. Briefly write the pharmacological management. (6+6+8)
2. Discuss medical and neuropsychiatric morbidities associated with alcohol dependence. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe newer antiepileptic drugs.
4. Write a brief note on Delirium.
5. Explain use of PET scan in Psychiatry.
6. Explain retrograde, post-traumatic and anterograde amnesia.
7. Describe nominal aphasia.
8. Discuss normal pressure hydrocephalus.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RADIO-DIAGNOSIS

PAPER – IV

(CNS including head and neck, Interventional radiology and Recent advances)

Q.P. Code: 1256

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. What are the causes of haematemesis? Discuss the role of interventional radiology in a patient with haematemesis.
2. What is Interventional Radiology (IR)? Discuss the role of IR in peripheral disease (PVD).

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss CT urography.
4. Discuss intra-abdominal abscess drainage.
5. Color Doppler in male infertility.
6. Discuss recent advances in ultrasound imaging.
7. Discuss the classification and the role of imaging of cerebral aneurysms.
8. Discuss MR mammography.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

RESPIRATORY MEDICINE

PAPER – IV

*(Recent Advance in Respiratory Medicine including
Critical Care aspects)*

Q.P. Code: 1260

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the role of Polysomnography in evaluation of sleep disordered breathing.
2. Discuss indications and complications of mechanical ventilation.

(10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss virtual bronchoscopy.
4. Discuss bronchial thermoplasty.
5. Discuss Uveiparotid fever.
6. Discuss Bosentan.
7. MAC (Mycobacterium Avian Complex) disease.
8. Management of parapneumonic effusion.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

GENERAL SURGERY

PAPER – IV

(*Musculo-skeletal disorders, nervous system, uro-genital disorders*)

Q.P. Code: 1264

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Enumerate causes of urethral stricture. Discuss clinical features, complications, investigations and management of urethral stricture. (5+5+10)
2. Describe etiology, clinical features, investigation and management of subdural haematoma. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss clinical features and management of Wilm's tumour.
4. Describe Stents in Urology.
5. Discuss clinical features and management of Torsion testis.
6. Discuss surgical anatomy of palmar spaces of hand.
7. Premalignant lesion of penis.
8. Immunosuppressive agents used after renal transplant.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OBSTETRICS AND GYNAECOLOGY

PAPER – IV

(Operative obstetrics and gynaecology, newborn and social obstetrics)

Q.P. Code: 1268

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the recent trends in cesarean sections and critically evaluate their merits & demerits. (10+10)
2. Describe the pathogenesis clinical features and management of a case of endometriosis. (5+5+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe the role of antenatal corticosteroids in pregnancy.
4. Discuss the indication procedure for uterine artery embolization in obstetrics & Gynaecology.
5. Discuss the role of HRT in gynecologic practice & elaborate on its benefits and risk.
6. Discuss the role of Doppler in fetal growth restrictions.
7. Discuss the risk factors and surgical management of Obstetric Anal Sphincter injuries (OASIS).
8. Discuss the indications and various methods of emergency contraception.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OPHTHALMOLOGY

PAPER – IV

*(Surgical ophthalmology, community ophthalmology,
ophthalmic research and recent advances)*

Q.P. Code: 1272

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe in detail parsplana vitrectomy-indication, procedure, complications and write a short note on diabetic retinopathy vitrectomy study (DRVS). (8+8+4)
2. Eye banking- Describe corneal procurement and preservation of donor cornea. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss new intraocular lens.
4. Describe OCT angiography.
5. Discuss types of Endothelial Keratoplasty.
6. Amniotic membrane transplantation.
7. Discuss newer antiglaucoma drugs.
8. Discuss indications and uses of Keratoprosthesis.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

ORTHOPAEDICS

PAPER – IV

(Recent advances in orthopaedics)

Q.P. Code: 1276

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe recent advances in medical and surgical management of osteoporotic vertebral fractures. Enumerate differential diagnosis for vertebra plana. (15+5)
2. Enumerate indications, contraindications and complications of total knee replacement. How do you manage infected total knee replacement? (5+5+5+5)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss the clinical features and management of radiation hazards in orthopaedics.
4. Describe the etiology, clinical features and management of adhesive capsulitis of shoulder joint.
5. Discuss indication and briefly discuss the procedures and complications of High tibial Osteotomy.
6. Define stress fracture, discuss the etiology, clinical features and management of stress fracture.
7. Discuss in brief bone bank.
8. Discuss in brief the indications and use of PET scan in orthopaedics.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – MAY 2021

Time: 3 Hours

Max. Marks: 100

OTORHINOLARYNGOLOGY

PAPER – IV

(Pharyngology and Broncho-oesophagology including recent advances)

Q.P. Code: 1280

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the etiology, clinical features and management of supra glottis carcinoma. (5+7+8)
2. Discuss the clinical features and management of different thyroid malignancy. Write a note on post-operative radiotherapy follow up protocol. (7+7+6)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Explain changing trends of tuberculosis larynx.
4. Discuss the indications and complications of cricotracheal resection. (5+5)
5. Explain the clinical features and management of Bronchial fistula. (5+5)
6. Discuss the histopathological features of Warthin's tumor.
7. Explain the role of Intensity Modulated Radiation Therapy (IMRT) in ENT practice.
8. Summarize the recent advances of PET scan in ENT.
