

**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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. Classify headaches and discuss the management of a patient presenting with headache. (8+12)
2. Discuss general principles of psychopharmacology. Classify antidepressant drugs. Write briefly on agomelatine. (10+5+5)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss Lurasidone.
4. Write a brief note on psycho-oncology.
5. Use of ketamine in psychiatry.
6. What are mirror neurons and state their relevance?
7. Discuss deep brain stimulation.
8. Discuss irritable bowel syndrome and its management.

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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. Role of interventional radiology in uterine fibroids.
2. Establishment of modern radiodiagnosis department in 200 bedded hospital.

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss in brief teleradiology. .
4. Interventional radiology in acute cerebral haemorrhage.
5. Explain virtual bronchoscopy.
6. Types of embolization materials.
7. Imaging findings of spinal tuberculosis.
8. Various radionuclide materials and its applications.

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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. Discuss preoperative assessment of lung for major lung surgery.
2. Discuss various modes and complications of mechanical ventilation.(10+10)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss periodic leg movement.
4. Describe medical thoracoscopy.
5. Discuss recent GINA guidelines.
6. Discuss omalizumab.
7. Discuss histiocytosis X.
8. Clinical significance of  $FiO_2$  (Fractional concentration of  $O_2$  in inspired air)

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**POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2020**

**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. Discuss briefly the surgical anatomy of the urinary bladder. Discuss the mechanism of injury features investigations and management of urinary bladder trauma. (5+2+3+3+7)
2. Define and classify fractures. Describe the process of bone union. Add a note on the complications of fractures. (3+5+7+5)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss how you will investigate a 50 year old male patient presenting with pain less haematuria.
4. Write a note on the management of hypospadias.
5. Discuss the etiology, clinical features & management of varicocele. (2+3+5)
6. Classify nerve injuries. Write a note on the management of nerve injuries. (3+7)
7. What is charcot foot. Explain how you will counsel a diabetic patient with charcot foot.
8. Classify hand infections. Add a note on their management. (3+7)

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**POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2020**

**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 role of newer insulins and current trends in management of gestational diabetes mellitus. (10+10)
2. Describe the etiopathogenesis of endometriosis and recent advances in its management. (10+10)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. What is ovarian reserve? Discuss the tests used to determine ovarian reserve? (3+7)
4. What is vaginal rejuvenation? Discuss the methods of vaginal rejuvenation.
5. Discuss the POP-Q classification of prolapse uterus.
6. Discuss the management of IUGR on the basics of umbilical artery & middle cerebral artery Doppler.
7. Discuss the mechanism of action of antibody directed enzyme prodrug therapy in gynaecological cancer.
8. WHO prognostic risk factors of gestational trophoblastic neoplasia.

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**POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2020**

**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. Contracted socket, clinical presentation & management. (6+14)
2. Describe herpetic keratitis, its clinical features & management. Write a short note on herpetic eye disease study. (HEDS) (8+8+4)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. National programme for control of blindness (NPCB).
4. Discuss corneal topography.
5. Discuss scleral fixated IOL.
6. Technique of trans canalicular laser DCR.
7. OCT in nerve fibre layer evaluation-ocular tomography.
8. Write a note on ocular myesthesia.

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**POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2020**

**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.

<b>Question Number</b>	<b>Marks</b>
<b>LONG ESSAY QUESTIONS:</b>	<b>2 X 20 = 40</b>
1. Describe Femoro-acetabular impingement and discuss its management.	(10+10)
2. Discuss etiopathogenesis and management of recurrent dislocation of patella.	(10+10)
<b>SHORT ESSAY QUESTIONS:</b>	<b>6 X 10 = 60</b>
3. Describe the indication and discuss in brief the surgical procedure and complications of Hip Arthroscopy.	(5+5)
4. Describe the indications and complications due to lateral mass fixation in cervical spine fractures.	
5. Describe the indications, briefly about procedure and complications of vertebroplasty.	(3+5+2)
6. Describe the indications of Dexa scan and discuss in brief the management of osteoporosis.	
7. Describe the indications and complications of polar screw.	
8. Discuss in brief the indications & complications of Teriperatide.	

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POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2020

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 aetiology, differential diagnosis and management of benign strictures of Oesophagus. (6+7+7)
2. Outline the anatomy of larynx and discuss investigations to assess the malignant tumor extent and treatment options for various stages. (6+7+7)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss clinical features & management of puberphonia. (5+5)
4. Explain the aetiology and management of Branchial fistula. (5+5)
5. Describe the aetiology clinical features & treatment of quinsy. (3+3+4)
6. Summarize clinical features & treatment of Ludwig's angina.
7. Describe the investigations, treatment & complications of recurrent respiratory papillomatosis. (3+4+3)
8. Explain recent advances in Phonosurgery.

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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.

<b>Question Number</b>	<b>Marks</b>
<b>LONG ESSAY QUESTIONS:</b>	<b>2 X 20 = 40</b>
1. Explain vesiculobullous lesions of skin in detail.	
2. Explain classification, diagnosis and pathogenesis of tumours of bone. Add a note on recent advances of these neoplasms.	(5+5+5+5)
<b>SHORT ESSAY QUESTIONS:</b>	<b>6 X 10 = 60</b>
3. Explain Burkitts lymphoma.	
4. Classify gliomas. Write a role of molecular markers in diagnosis of it. (6+4)	
5. Explain variants of papillary carcinoma of thyroid.	
6. Point out role of IHC in diagnosis of soft tissue tumours.	
7. Discuss Indications & processing of muscle biopsy & write morphology of myopathies.	(2+4+4)
8. Explain tumours of peripheral nerves.	

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**PHARMACOLOGY**

**PAPER – IV**

*(Recent advances, therapeutics and experimental pharmacology)*

**Q.P. Code: 1224**

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 various clinical and experimental evaluations of anti-asthmatic drugs? (10+10)
2. Discuss the pharmacotherapy of typhoid fever. Add a note on asymptomatic and carriers role in transmission. (14+6)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss the pharmacotherapy of Chloroquine resistant malaria.
4. Discuss the recent advances in treatment guidelines of primary hypertension.
5. Discuss the pharmacotherapy of Ulcerative Colitis.
6. Discuss the recent advances in treatment and management with oral anti-coagulants.
7. Enumerate the various treatment modalities used in combating resistance in cancer chemotherapy.
8. Discuss the pharmacotherapy of monoclonal antibodies.

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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. Appraise the details of cardiopulmonary resuscitation. Compile the recent guidelines. (10+10)
2. Design pain clinic. Outline the role of anaesthesiologist in a pain clinic. (8+12)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Classify types of patient controlled analgesia. Critique its merits and demerits.
4. Illustrate the effects of nitric oxide and appraise its anaesthetic uses.
5. Explain malignant hyperthermia. Relate the causes and treatment.
6. Prepare a plan for day care anaesthesia.
7. Specify the uses of Transcutaneous Electrical Nerve Stimulation.
8. Evaluate the merits and demerits of prone position ventilation.

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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. Discuss the pathogenesis of psoriasis and discuss about the co-morbidities associated with psoriasis. (10+10)
2. Discuss the indications, pretreatment screening, monitoring guidelines and side effect of rituximab. (5+5+5+5)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Indications and side effects of tissue fillers in dermatology. (5+5)
4. Clinical features and management of hemangioma of infancy. (5+5)
5. Interleukins and use of anti-IL 17 agents in dermatology. (5+5)
6. What is anaphylaxis? Write an account of recurrent anaphylaxis. (4+6)
7. Clinical features, diagnosis of CD 30 positive cutaneous lymphoma. (4+6)
8. Clinical features, diagnosis and management of calciphylaxis. (3+3+4)

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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. Define short stature, discuss the etiopathogenesis, list the investigations and outline the management of short stature. (3+7+5+5)
2. Discuss etiopathogenesis, clinical features and management of disseminated intra-vascular coagulation. (6+6+8)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss etiology, clinical feature and management of Dermatophytosis.(1+5+4)
4. Describe clinical features and management of somatoform disorders. (5+5)
5. Describe clinical features, investigation and treatment of vasculotoxic snake bite. (4+3+3)
6. Discuss different types of radiations and their hazards. (5+5)
7. Define dyslipidemia & discuss the management of dyslipidemia. (4+6)
8. Write clinical features and management of hairy cell leukemia. (4+6)

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**POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2020**

**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. Discuss the differential diagnosis, investigations & management of a 4 year old child brought to O.P.D with weakness & inability to walk since 2 days.  
(5+5+10)
2. Describe etiology, clinical features, newer investigations & management of a child with tuberculous meningitis.  
(3+5+4+8)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss advantages & mechanism of action of low osmolarity ORS.
4. Growth monitoring in first 5 years of life.
5. Discuss causes and management of drug induced hepatitis.
6. Discuss clinical features and management of autism.
7. Discuss advantages and dosage schedule of injectable polio vaccine.
8. Prevention of Down's syndrome.

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