

**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**DIPLOMA IN ORTHOPAEDICS (D. ORTHO)**

**PAPER – I**

*(Basic and clinical sciences as applied to orthopaedics)*

**Q.P. Code: 1290**

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 blood supply to femoral head. Classify Perthes disease & its management. (5+5+10)
2. Describe calcium metabolism and discuss the clinical features and management in Renal Rickets. (10+10)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss the use of Imaging in Orthopaedics.
4. Discuss the type of Traction, its indications & complications.
5. Discuss in brief the changes of synovium in normal and disease person.
6. Discuss the clinical features and management of Morton's metatarsalgia.
7. Discuss the etiology, clinical features and management of DDH. (2+3+5)
8. Discuss briefly about bone bank.

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**DIPLOMA IN PAEDIATRICS (D.C.H.)**

**PAPER – I**

*(Emergency / critical pediatrics – newborn)*

**Q.P. Code: 1293**

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 & classify shock. What is the pathophysiology of shock? Describe the stepwise management of septic shock in a 4 month old child. (3+4+4+9)
2. Clinical features, investigations, management & prevention of neonatal sepsis. (4+5+6+5)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss Fluid resuscitations for a 3 years old child with 20% burns.
4. Discuss prevention of parent to child transmission of HIV.
5. Enumerate the advantages of breast feeding
6. Write the importance of neonatal reflexes.
7. Enumerate the indications and procedure for surfactant treatment.
8. Describe the clinical features and management of sickle cell crisis.

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**DIPLOMA IN RADIO-DIAGNOSIS (DMRD)**

**PAPER – I**

*(Basic Sciences as applied to Radio-diagnosis)*

**Q.P. Code: 1296**

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 is image intensifier? Explain with diagram its construction and application in radiodiagnosis. (10+10)
2. What are X-rays? Discuss the characteristics and generation of X-rays with appropriate diagrams. (10+10)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss functional MRI.
4. Radiological findings of Von-Hippel Lindau syndrome.
5. Principles of MDCT.
6. Describe components of Transducer.
7. Describe digital mammography.
8. Imaging features of aneurysmal bone cyst.

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**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. What is dysmenorrhoea? How do you classify dysmenorrhoea? Discuss the management of congestive dysmenorrhoea. (5+5+10)
2. Define Fetal Growth Restriction (FGR). Describe its classifications & aetiology. Write management of late onset FGR. (3+3+6+8)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Describe the criteria to be fulfilled prior to forceps application & its complications.
4. Describe the tests for tubal patency.
5. Discuss the etiopathology and management of endometrial hyperplasia.
6. Discuss the role of partograph as a tool to monitor labour.
7. Discuss the tests used to predict preeclampsia.
8. Discuss the role of tumor markers in gynecology & add a note on newer tumor markers.

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**DIPLOMA IN OTORHINOLARYNGOLOGY (D.L.O.)**

**PAPER – I**

*(Otology including Basic Sciences and Recent Advances)*

**Q.P. Code: 1302**

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 management of acute otitis media in children. (8+12)
2. Discuss clinical features, investigations and treatment of vestibular schwannoma. (5+5+10)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss the types and procedures of pistons in otology. (4+6)
4. What is canal wall down procedure? Describe the procedure of canal wall down. (4+6)
5. Mention the types and procedure of cochlear implant. (4+6)
6. What is masking? What are the advantages of masking? (4+6)
7. Discuss the aetiology and treatment of acute Perichondritis. (4+6)
8. What are the causes of CSF Otorrhea and discuss the treatment plan. (4+6)

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**DIPLOMA IN DERMATOLOGY, VENEREOLOGY AND  
LEPROSY (DDVL)**

**PAPER – I**

*(Basic Sciences in relation to Dermatology, Venereology and Leprosy)*

**Q.P. Code: 1305**

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 Eccrine sweat gland, and write about its role in Thermo-regulation  
(10+10)
2. Draw a neat labeled diagram of structure of Hair and discuss about Hair  
cycle. (10+10)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Write about Dark Ground Microscopy and its uses. (6+4)
4. Draw a neat labeled diagram of ultrastructure of Human Immuno Deficiency  
virus and describe about it. (5+5)
5. Write a note on animal models in leprosy and describe the role of Armadillo  
in leprosy. (4+6)
6. What is Virchow Cell, Describe it?
7. Write a note on apocrine gland, and the disorders involving the apocrine  
gland. (5+5)
8. What is epidermal cell cycle, write how it is affected in Psoriasis. (5+5)

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**DIPLOMA IN ANAESTHESIOLOGY (D.A.)**

**PAPER – I**

*(Basic Sciences as applicable to Anaesthesia)*

**Q.P. Code: 1308**

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 physiological changes occurring during normal pregnancy.  
Discuss various methods of pain relief during labour. (10+10)
2. What is normal blood coagulation mechanism? What are the implications of disorder of coagulation to anaesthesia? (7+13)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss the contributions of Sir Ivan Magill to anaesthesia.
4. Describe indications, technique and complications of Bier's block.
5. Discuss Fentanyl citrate.
6. Describe in short the low flow anaesthesia system.
7. Define lung compliance and discuss its importance to the anaesthesiologist.
8. Role of magnesium in anaesthesia and intensive care unit.

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**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. Define astigmatism. Discuss various modalities for evaluation of a patient with high astigmatism and treatment options for the same. (2+8+10)
2. Discuss factors responsible for maintaining corneal transparency. Describe causes of corneal oedema. (14+6)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Summarize stains used in diagnosis and drugs used in treatment of dry eye. (5+5)
4. Discuss development and applied anatomy of vitreous humour. (5+5)
5. Enumerate the causes of Leucocoria. Describe management of retinoblastoma. (5+5)
6. Discuss pharmacology and indications of anti VEGF agents in ophthalmology. (5+5)
7. Discuss, compare and contrast between FFA and ICG angiographs . (5+5)
8. Describe types of amblyopia with treatment options. (5+5)

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**POST-GRADUATE DIPLOMA EXAMINATION – JULY 2020**

**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. Classify Amyloidosis. Discuss the pathogenesis and lab diagnosis of the same. (5+10+5)
2. Classify and discuss in born errors of metabolism. (5+15)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss pathogenesis of septic shock.
4. Enumerate functions of lysosomes.
5. Discuss opportunistic infections in AIDS.
6. Discuss Dark ground microscopy.
7. Discuss mechanism of cellular ageing.
8. Discuss acute phase reactants.

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