

**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**CONSERVATIVE DENTISTRY AND ENDODONTICS**  
**PAPER – I**  
*( Applied Basic Sciences )*

**Q.P. Code: 2243**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**LONG ESSAY QUESTIONS:**

**Marks**  
**10 X 10 =100**

1. Enumerate developmental disturbances of teeth
2. Discuss physiology of pulpal pain
3. Discuss development, structure, function and clinical considerations of periodontal ligament
4. Discuss biocompatibility of dental materials
5. Discuss cross infection in a dental office
6. Enumerate culture medium and techniques for anaerobic micro-organisms
7. Describe various techniques of inferior alveolar nerve block
8. Discuss Tooth eruption
9. Enumerate pulp protective cements
10. Discuss Anti-Sialogosues and their importance in restorative dentistry.

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**ORAL AND MAXILLOFACIAL SURGERY  
PAPER – I  
( Applied Basic Sciences )**

**Q.P. Code: 2239**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**Marks**

**10 X 10 =100**

**LONG ESSAY QUESTIONS:**

1. Discuss in detail about hypothermia and hyperthermia
2. Classify NSAID's, role of NSAID in oral surgery, write in detail about aspirin like drugs.
3. Discuss fluid and electrolyte balance
4. Describe in detail the arterial supply of head and neck region. Discuss the technique of external carotid artery ligation
5. Define asepsis. Describe various methods of maintaining asepsis in oral and maxillofacial surgery
6. Discuss physiology of respiratory control. Explain the courses and management of sleepapnea syndrome
7. Discuss the role of corticosteroids in oral and maxillofacial surgery
8. Describe the surgical anatomy of nose and discuss features of cleft lip
9. Describe the pharmacology of various general anaesthetic agents. Describe in brief stages of general anaesthesia
10. What is drug allergy? How will you manage case of anaphylactic shock?

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY  
PAPER – I  
( Applied Basic Sciences )**

**Q.P. Code: 2251**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**LONG ESSAY QUESTIONS:**

**Marks  
10 X 10 =100**

1. Describe the development of face
2. Discuss hypocalcified structures of enamel
3. Describe healing of oral wounds
4. Describe the process of formation of saliva. Add a note on its functions
5. Discuss the different types of studies classified in research
6. Describe the intercellular junctions of the oral epithelium
7. Describe in brief the various oral manifestations associated with vitamin deficiencies
8. Discuss tissue inflammation and chemical mediators
9. Discuss the process of auto-immunity
10. Describe courses, relations, branches and applied aspects of maxillary nerve.

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**ORAL MEDICINE AND RADIOLOGY  
PAPER – I  
( Applied Basic Sciences )**

**Q.P. Code: 2263**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**LONG ESSAY QUESTIONS:**

**Marks  
10 X 10 =100**

1. Discuss lymphatic drainage of oro-facial region
2. Discuss mode of spread of malignant tumours
3. Discuss composition and functions of saliva. Add a note on how Ph of saliva is maintained.
4. Describe methods of sterilization
5. Discuss the physiological activities of leukocytes in immune response
6. Discuss the role of corticosteroids in dentistry
7. Discuss mechanism of inflammation and repair
8. Explain the different Sampling methods
9. Discuss in detail functions of lymph
10. Discuss iron metabolism and its applied aspect.

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS**

**PAPER – I**

*( Applied Basic Sciences )*

**Q.P. Code: 2247**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**LONG ESSAY QUESTIONS:**

**Marks  
10 X 10 =100**

1. What are the controlling factors for bone modeling and remodelling
2. Discuss buccinators mechanism and its implications in facial growth
3. What is the role of hormones in orthodontic tooth movement?
4. What are the stem cells and significance in Orthodontics?
5. Helsinki's declaration
6. What are biomechanical considerations in selecting an orthodontic wire. Make a comparative statement about and titanium.
7. Factors influencing development of normal occlusion
8. Discuss tissue reaction to orthodontic force
9. Describe the various tempromandibular disorders and its implication in Orthodontics
10. Write in brief about devine proportions.

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**PAEDIATRIC AND PREVENTIVE DENTISTRY  
PAPER – I  
( Applied Basic Sciences )**

**Q.P. Code: 2259**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**LONG ESSAY QUESTIONS:**

**Marks  
10 X 10 =100**

1. Muscles of mastication
2. Balanced diet
3. Clinical importance of platelet counts
4. Growth trends
5. Sub acute bacterial endocarditis
6. Passive immunity
7. Development of palate
8. Chemical mediators of inflammation
9. Chi square test and its applicability
10. Development of tongue

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**PERIODONTOLOGY**

**PAPER – I**

*( Applied Basic Sciences )*

**Q.P. Code: 2235**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**LONG ESSAY QUESTIONS:**

**Marks  
10 X 10 =100**

1. Describe in detail mandibular nerve
2. Define pain. Discuss in detail the mechanism of action of local anaesthetic agents
3. Discuss the temporomandibular joint in detail
4. Define diet and nutrition. Discuss the role of vitamin C in the health and disease of periodontium
5. Define Biostatistics. Discuss its branches in detail
6. Discuss the sterilization and disinfection protocol for periodontal surgeries.
7. Discuss the role of effects of female sex hormones on periodontium
8. Define and classify inflammation. Discuss in detail chronic inflammation
9. Describe the composition, regulation and functions of saliva
10. Discuss the development of periodontal ligament.

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**PROSTHODONTICS AND CROWN & BRIDGE  
PAPER – I  
( Applied Basic Sciences )**

**Q.P. Code: 2231**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

**LONG ESSAY QUESTIONS:**

**Marks  
10 X 10 =100**

1. Describe anatomy of temporo-mandibular joint
2. Discuss physiology of deglutition
3. Discuss histology of salivary glands
4. Discuss infection control in prosthodontics
5. Describe the effects of aging on edentulous arches
6. Discuss selection of luting agents in fixed prosthodontics
7. Describe muscles of facial expression
8. Discuss Osseo integration in dental implants
9. Discuss nutrition care for denture wearing patient
10. Discuss test of significance in biostatistics.

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**POST-GRADUATE DEGREE MDS PART I EXAMINATION – JULY 2020**

**Time: 3 Hours**

**Max. Marks: 100**

**PUBLIC HEALTH DENTISTRY  
PAPER – I  
( Applied Basic Sciences )**

**Q.P. Code: 2255**

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

<b>LONG ESSAY QUESTIONS:</b>	<b>Marks 10 X 10 =100</b>
1. Describe the development of teeth. Add a note on developmental anomalies of teeth	(5+5)
2. Describe the development, anatomical relations and nerve supply of parotid gland	(3+4+3)
3. Enumerate muscles of mastication and add a detail note of any two muscles	(3+7)
4. Discuss in detail about wound healing. Add a note on healing of an extraction socket.	(6+4)
5. Describe the development of TMJ. Discuss the common disorders of the temporomandibular joint	(4+6)
6. Discuss Kreb's cycle	
7. Define oral cancer. Discuss the role of various risk factors of oral cancer in its causation	(3+7)
8. Define agent. Classify and discuss the role of agent factor in health and disease	(2+2+6)
9. Define biostatistics. Discuss the various methods of summarization of data	(2+8)
10. Discuss the mechanism of clotting. Add a note on clotting disorders.	(6+4)

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