

POST-GRADUATE DEGREE MDS PART I EXAMINATION – JUNE 2021

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. Discuss the facial nerve at length. Illustrate as required.
2. Discuss the eruption schedule of permanent teeth. Illustrate as required.
3. Discuss coagulative disorders of blood.
4. Discuss the formation of a periapical lesion at length. Illustrate as required.
5. Discuss mercury toxicity in detail.
6. Discuss the action of local anaesthetics in detail.
7. Discuss the advances of diagnosis in dental caries.
8. Elaborate on the dentino-Enamel junction. Illustrate appropriately.
9. Discuss noncarious cervical lesions in detail.
10. Elaborate on syncope.

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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.

Marks

10 X 10 =100

LONG ESSAY QUESTIONS:

1. Discuss anatomy of mandible.
2. Describe development of paranasal sinuses.
3. Discuss physiology of saliva.
4. Discuss role of calcium and vitamin D in growth of teeth and alveolar bone.
5. Discuss universal precautions in dental practice.
6. Discuss recent advances in dental ceramics.
7. Discuss the role of tongue in prosthodontics management of edentulous patient.
8. Discuss effect of wearing complete denture on oral mucosa.
9. Describe surface topography of dental implants.
10. Discuss sampling methods and errors in sampling.

POST-GRADUATE DEGREE MDS PART I EXAMINATION – JUNE 2021

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**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.

Marks

LONG ESSAY QUESTIONS:

10 X 10 =100

1. Discuss the role of Gingival Crevicular Fluid in defense mechanism.
2. Discuss maxillary sinus and its innervation.
3. Discuss Biofilm in detail.
4. Local drug delivery systems in periodontal therapy.
5. Discuss the development of periodontal ligament.
6. Define shock. Discuss the various complications of shock.
7. Discuss anticoagulants in detail.
8. Pharmacological agents affecting Bone Resorption.
9. Microbiological aids in periodontal diagnosis.
10. Discuss disclosing agents in detail.

POST-GRADUATE DEGREE MDS PART I EXAMINATION – JUNE 2021

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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.

LONG ESSAY QUESTIONS:

Marks
10 X 10 =100

1. Discuss surgical anatomy of scalp and its surgical implications
2. Describe functional anatomy of deglutition in detail
3. Discuss surgical anatomy of infra-temporal space with its applied aspects in fascial space infection
4. Describe surgical anatomy of rib as a source of bone graft in oral and maxillofacial surgery.
5. Discuss physiology of nerve conduction and add a note on different types of nerve injuries
6. Discuss different types of hemorrhage and step by step management of bleeding socket after extraction of tooth
7. Describe extra-oral technique of maxillary nerve block and complications associated with it
8. Discuss different types of hypersensitivity and add a note on anaphylaxis
9. Discuss fungal infections of oral cavity in detail
10. Describe in detail development of tongue and anatomy of tongue

POST-GRADUATE DEGREE MDS PART I EXAMINATION – JUNE 2021

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 laws of heredity? Write a note on influence of heredity on malocclusions.
2. What is incisal liability and incisal labiality? What are the consequences of having abnormal incisal liability and incisal labiality?
3. What are orthodontic primers? Write about its basic composition, function and add a note on moisture insensitive primers.
4. Measures of central tendency.
5. What are bleeding disorders and write about implications of haemophilia on orthodontic treatment.
6. Write in detail about neutral zone and safety valve mechanism and its implications.
7. What is balanced diet? Write about nutritional disorders and its impact on growth.
8. Define growth site and growth center? Give examples for each and write in detail about condylar cartilage.
9. Discuss the correlation of genetics and malocclusion.
10. Write about the significance of Fluoride in orthodontics.

POST-GRADUATE DEGREE MDS PART I EXAMINATION – JUNE 2021

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PEDIATRIC 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. Gate control theory.
2. Diet counseling.
3. Muscles of mastication.
4. Vitamin D and its importance.
5. Composition and regulation of saliva.
6. Calcium metabolism.
7. Mandibular nerve.
8. Blood grouping.
9. Regulation of body temperature.
10. Temperomandibular joint disorders in children.

POST-GRADUATE DEGREE MDS PART I EXAMINATION – JUNE 2021

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. Describe the anatomy of temporomandibular joints and its applied aspects.
2. Discuss significance of fascial spaces related to spread of infection.
3. Discuss use of antibiotics in oral infections.
4. Discuss in detail the defense mechanism of oral cavity.
5. Explain student's t-test.
6. Discuss drug interactions related to dental and oral diseases.
7. Describe Haemophilia and its dental aspects.
8. Discuss only the applied anatomy of tongue.
9. Discuss viral infections of oral cavity.
10. Describe regulation of blood glucose.

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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.

	Marks
LONG ESSAY QUESTIONS:	10 X 10 =100
1. Trace the courses of trigeminal nerve. Add a note on its applied aspects.	(7+3)
2. Describe the development of face. Add a note on congenital anomalies of face.	(5+5)
3. Discuss the various types, mechanisms and pathways of pain.	(3+3+4)
4. Discuss in detail about cardiac cycle.	
5. Classify analgesics. Discuss their mechanism of action. Add a note on its side effects.	(4+3+3)
6. Define epidemiology. Discuss in detail about analytical epidemiology.	(2+8)
7. Discuss the various methods of sterilization. Add a note on its importance in dental practice.	(6+4)
8. Classify vitamins. Discuss the various types of vitamins. Add a note on their role in oral health.	(2+4+4)
9. Define bias. Discuss the various types of bias in public health research.	(2+8)
10. Discuss in detail role social sciences in oral health.	

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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.

Marks

10 X 10 =100

LONG ESSAY QUESTIONS:

1. Describe the development of tongue. Discuss the various developmental disorders associated with the tongue.
2. Discuss the various steps in research methodology.
3. Describe the various muscles of mastication with applied aspects.
4. Describe Osteogenesis and its applied aspects.
5. Describe the process of deglutition.
6. Describe the various process and theories of eruption and shedding.
7. Discuss culture media.
8. Discuss repair and regeneration of oral tissues.
9. Describe the various histological aspects of oral mucous membrane.
10. Discuss the commonly occurring immune mediated diseases.
