

Roll No. _____

**MDS (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS)-1st YEAR
ANNUAL EXAMS; APRIL-MAY 2019**

**[SUB.:- APPLIED BASIC SCIENCES: APPLIED ANATOMY, PHYSIOLOGY, DENTAL
MATERIALS, GENETICS, PATHOLOGY, PHYSICAL ANTHROPOLOGY, APPLIED
RESEARCH METHODOLOGY, BIO-STATISTICS AND APPLIED PHARMACOLOGY]
(PAPER CODE: 02010101)**

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

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- Q. 1** Neural crest cells. **(10)**
- Q. 2** Pathways of Pain. **(10)**
- Q. 3** Effects of drugs on Orthodontic treatment. **(10)**
- Q. 4** Spheno – occipital Synchronosis. **(10)**
- Q. 5** Growth site vs Growth centre. **(10)**
- Q. 6** Describe in detail about TMJ and its role in Orthodontics. **(10)**
- Q. 7** Discuss Sterilization in Orthodontics in detail. **(10)**
- Q. 8** Parametric vs Non Parametric Test. **(10)**
- Q. 9** Functional Matrix Hypothesis. **(10)**
- Q. 10** Stainless steel in Orthodontics. **(10)**

Roll No. _____

**MDS (CONSERVATIVE DENTISTRY AND ENDODONTICS)-1st YEAR ANNUAL
EXAMS; APRIL-MAY 2019**

**[SUB.:- APPLIED BASIC SCIENCES : APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY
INCLUDING ORAL MICROBIOLOGY, PHARMACOLOGY, BIOSTATISTICS AND
RESEARCH METHODOLOGY AND APPLIED DENTAL MATERIALS]
(PAPER CODE: 02020101)**

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

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|--------------|--|-------------|
| Q. 1 | Development of Tongue and Palate. | (10) |
| Q. 2 | Pathways of pain. | (10) |
| Q. 3 | Caries Vaccine. | (10) |
| Q. 4 | Oral manifestations of viral diseases. | (10) |
| Q. 5 | Total Etch v/s Self Etch bonding agents. | (10) |
| Q. 6 | Complications of Local Anesthesia. | (10) |
| Q. 7 | Root Apex and its clinical significance. | (10) |
| Q. 8 | Tests of significance in statistical analysis. | (10) |
| Q. 9 | Casting defects. | (10) |
| Q. 10 | Biomimetic materials. | (10) |

Roll No. _____

**MDS (ORAL AND MAXILLOFACIAL SURGERY)-1st YEAR ANNUAL EXAMS;
APRIL-MAY 2019**

**[SUB.:- APPLIED BASIC SCIENCES : APPLIED ANATOMY, PHYSIOLOGY &
BIOCHEMISTRY, PATHOLOGY, MICROBIOLOGY, PHARMACOLOGY, RESEARCH
METHODOLOGY AND BIostatISTICS; PAPER CODE: 02030101]**

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

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- Q. 1** Describe the anatomic relations of ganglions of head and neck and discuss their innervations. **(10)**
- Q. 2** Metabolic requirements of a trauma patient. Discuss management and compensations. **(10)**
- Q. 3** Diabetes mellitus. **(10)**
- Q. 4** Discuss nerve injuries. **(10)**
- Q. 5** How do you sterilize operating theatre. Discuss assessment of sterilization? **(10)**
- Q. 6** NSAIDs in Oral surgery. **(10)**
- Q. 7** Define metastases. Pathogenesis of squamous cell carcinoma. **(10)**
- Q. 8** Differential diagnosis for oral bleeding. **(10)**
- Q. 9** Surgical anatomy of temporomandibular joint. **(10)**
- Q. 10** Describe in detail all masticatory spaces. **(10)**

Roll No. _____

**MDS (PROSTHODONTICS AND CROWN & BRIDGE)-1st YEAR ANNUAL EXAMS;
APRIL-MAY 2019**

**[SUB.:- APPLIED BASIC SCIENCES : APPLIED ANATOMY, EMBRYOLOGY,
GROWTH AND DEVELOPMENT GENETICS, IMMUNOLOGY, ANTHROPOLOGY,
PHYSIOLOGY, NUTRITION AND BIOCHEMISTRY, PATHOLOGY AND MICROBIOLOGY,
VIROLOGY, APPLIED PHARMACOLOGY, RESEARCH METHODOLOGY AND BIO-
STATISTIC, APPLIED DENTAL ANATOMY AND HISTOLOGY, ORAL PATHOLOGY &
ORAL MICROBIOLOGY, ADULT AND GERIATRIC PPSYCHOLOGY, APPLIED DENTAL
MATERIALS; PAPER CODE: 02040101]**

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

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- Q. 1** Discuss the mandibular movements in detail and significance in Prosthodontics? **(10)**
- Q. 2** Write briefly about recent trends in esthetic materials in Prosthodontics? **(10)**
- Q. 3** Write in detail regarding biocompatibility of dental materials? **(10)**
- Q. 4** Discuss the embryology of face with special reference to cleft lip and cleft palate. **(10)**
- Q. 5** Write in detail about infection control in Prosthodontics? **(10)**
- Q. 6** Discuss in detail regarding hormones affecting calcium metabolism? **(10)**
- Q. 7** Write in detail about coagulation cascade in detail and prosthodontic relevance? **(10)**
- Q. 8** Discuss various maxillofacial materials in detail? **(10)**
- Q. 9** Write briefly regarding research ethics in Prosthodontics? **(10)**
- Q. 10** What in detail about metastasis and its pathophysiology? **(10)**

Roll No. _____

MDS (PEDIATRIC DENTISTRY)-1st YEAR ANNUAL EXAMS; APRIL-MAY 2019
[SUB.:- APPLIED BASIC SCIENCES : APPLIED ANATOMY, PHYSIOLOGY &
BIOCHEMISTRY, PATHOLOGY, MICROBIOLOGY, PHARMACOLOGY, RESEARCH
METHODOLOGY AND BIostatISTICS, GROWTH AND DEVELOPMENT AND DENTAL
PLAQUE, GENETICS; PAPER CODE: 02050101]

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

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|--------------|--|-------------|
| Q. 1 | Post natal growth of Mandible. | (10) |
| Q. 2 | Branchial Arches. | (10) |
| Q. 3 | Chi- Square Test. | (10) |
| Q. 4 | Role of saliva in dental caries. | (10) |
| Q. 5 | Active and Passive Immunity. | (10) |
| Q. 6 | Development of Tongue. | (10) |
| Q. 7 | Blood coagulation. | (10) |
| Q. 8 | Calcium and Phosphorous Metabolism. | (10) |
| Q. 9 | Discuss microbiology of dental plaque. | (10) |
| Q. 10 | SHED | (10) |

Roll No. _____

**MDS (PUBLIC HEALTH DENTISTRY)-1st YEAR ANNUAL EXAMS;
APRIL-MAY 2019**

[SUB.- APPLIED BASIC SCIENCES : APPLIED ANATOMY AND HISTOLOGY, APPLIED PHYSIOLOGY AND BIOCHEMISTRY, APPLIED PATHOLOGY, MICROBIOLOGY, ORAL PATHOLOGY, PHYSICAL AND SOCIAL ANTHROPOLOGY, APPLIED PHARMACOLOGY AND RESEARCH METHODOLOGY AND BIostatISTICS; PAPER CODE: 02060101]

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

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- Q. 1** Explain in detail the anatomic considerations of Trigeminal Nerve in the Head & Neck region. **(10)**
- Q. 2** Enlist Paranasal air sinuses and describe clinical implications of Maxillary Antrum. **(10)**
- Q. 3** Describe functions of Muscles of Mastication. **(10)**
- Q. 4** Discuss Complications of Blood Transfusion. **(10)**
- Q. 5** Explain role of Test of Significance in Research related to Dental Caries. **(10)**
- Q. 6** Describe Management of Anaphylactic Shock. **(10)**
- Q. 7** Define Blood Pressure & describe its clinical implications in Dental Practice. **(10)**
- Q. 8** Discuss Medical Emergencies in Dental Practice. **(10)**
- Q. 9** Explain Hierarchy of Evidence in Dentistry. **(10)**
- Q. 10** Describe Mechanism of Action & Enlist Dosages of Antibiotics commonly prescribed for oral cavity infections. **(10)**

Roll No. _____

MDS (PERIODONTOLOGY)-1st YEAR ANNUAL EXAMS; APRIL-MAY 2019
[SUB.:- APPLIED BASIC SCIENCES : APPLIED ANATOMY , PHYSIOLOGY, AND
BIOCHEMISTRY, PATHOLOGY, MICROBIOLOGY, PHARMACOLOGY, RESEARCH
METHODOLOGY AND BIostatISTICS; PAPER CODE: 02070101]

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
2. Before answering the question paper, candidate(s) should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made to the Invigilator/ Centre Supdt., in the Examination Hall within 15 minutes of the commencement of the exam. No complaint(s) in this regard will be entertained thereafter.
3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

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- Q. 1** Neutrophil. **(10)**
- Q. 2** Maxillary Nerve. **(10)**
- Q. 3** Cohort Study. **(10)**
- Q. 4** Porphyromonas Gingivalis. **(10)**
- Q. 5** Syncope. **(10)**
- Q. 6** Physiology of pain. **(10)**
- Q. 7** Calcium Metabolism. **(10)**
- Q. 8** Role of Cytokines in Periodontal Diseases. **(10)**
- Q. 9** NSAIDS in Periodontal Management. **(10)**
- Q. 10** Nutritional influences on periodontium and oral cavity. **(10)**

Roll No. _____

**MDS (ORAL MEDICINE & RADIOLOGY)-1st YEAR ANNUAL EXAMS;
APRIL-MAY 2019**

**[SUB.- APPLIED BASIC SCIENCES: APPLIED ANATOMY, PHYSIOLOGY, AND
BIOCHEMISTRY, PATHOLOGY, MICROBIOLOGY, PHARMACOLOGY, RESEARCH
METHODOLOGY AND BIostatISTICS; PAPER CODE: 02080101]**

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

1. Write your Roll No. on the Question paper.
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3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

-
- Q. 1** Describe the gross anatomy and Functions of Muscles of Mastication. **(10)**
- Q. 2** Describe the gross anatomy, Functions and Applied anatomy of Maxillary sinus. **(10)**
- Q. 3** Describe the blood clotting mechanism with applied aspects. **(10)**
- Q. 4** Describe the mechanism of the regulation of blood Pressure. **(10)**
- Q. 5** Water soluble Vitamins and their role in Oral health. **(10)**
- Q. 6** Role of Analgesics in Inflammation. **(10)**
- Q. 7** Investigations in Autoimmune Diseases. **(10)**
- Q. 8** Chemotherapeutic drugs in the Management of oral cancer. **(10)**
- Q. 9** Sampling methods in Dental Epidemiology. **(10)**
- Q. 10** Anaphylaxis. **(10)**

Roll No. _____

**MDS (ORAL PATHOLOGY AND MICROBIOLOGY AND FORENSIC
ODONTOLOGY)-1st YEAR ANNUAL EXAMS; APRIL-MAY 2019**

[SUB.:- APPLIED BASIC SCIENCES: APPLIED ANATOMY, PHYSIOLOGY (GENERAL AND ORAL), CELL BIOLOGY, GENERAL HISTOLOGY, BIOCHEMISTRY, GENERAL PATHOLOGY, GENERAL AND SYSTEMIC MICROBIOLOGY, VIROLOGY, MYCOLOGY, BASIC IMMUNOLOGY, ORAL BIOLOGY (ORAL AND DENTAL HISTOLOGY), BIOSTATISTICS AND RESEARCH METHODOLOGY; PAPER CODE: 02090101]

Time: 03:00 Hrs.

Max. Marks: 100

Instructions:-

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3. Attempt all questions. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Illustrate your answer with diagram wherever required.

-
- Q. 1** Write chemical and physical properties of ENAMEL. Describe the light and electron microscopic features of AMELOGENESIS. **(10)**
- Q. 2** Chemical mediators of INFLAMMATION. **(10)**
- Q. 3** Measures of central tendency. **(10)**
- Q. 4** Development of tongue. **(10)**
- Q. 5** Theories of tooth eruption and shedding. **(10)**
- Q. 6** Muscles of mastication. **(10)**
- Q. 7** Krebs cycle. **(10)**
- Q. 8** Occlusal aspect of Maxillary permanent I molar. **(10)**
- Q. 9** HIV. **(10)**
- Q. 10** Nerve supply of Dental PULP. **(10)**
