

MASTGAD : Oct/Nov-2010  
SUBJECT : ORAL MEDICINE AND RADIOLOGY  
PAPER - I

(Applied Anatomy, Physiology, Pathology, Pharmacology, Nutrition and Dietetics,  
Research Methodology and Biostatistics)

Day : Tuesday  
Date : 16-11-2010

Time : 9:00 A.M. TO 12:00 NOON.  
Max. Marks : 100

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Start each answer on a new page.
- 3) Figures to the right indicate **FULL** marks.
- 4) Wherever necessary illustrate your answers with suitable and labeled diagrams.

**Long essay questions.**

**2 × 20 marks**

- Q. 1** Describe the regulatory mechanism of steroid secretion. Describe the pharmacological actions of steroids that make them suitable in management of oral pathologies.
- Q. 2** Describe the functional anatomy of temporo-mandibular joint. Name five functional disorders affecting this joint.

**Short essay questions.**

**6 × 10 marks**

- Q. 3** Explain the mechanism of clotting. Enumerate investigations required in the diagnosis of clotting disorders.
- Q. 4** Explain spread of infection from mandibular third molar to various spaces.
- Q. 5** Explain the pathogenesis of autoimmune diseases. Name the laboratory methods that assist in their diagnosis.
- Q. 6** Describe features, advantages and limitations of any two types of clinical trials.
- Q. 7** Describe the histopathology of a premalignant lesion. Name histological features that indicate its malignant transformation.
- Q. 8** Describe the principles of antibiotic therapy.

MASTGAD : OCT/NOV-2010  
SUBJECT : ORAL MEDICINE AND RADIOLOGY  
PAPER - II

(Oral diagnostic methods including laboratory investigations and differential diagnosis,  
Oral Medicine)

Day : Thursday  
Date : 18-11-2010

Time : 9:00 A.M. TO 12:00 NOON.  
Max. Marks : 100

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N.B.

- 1) All questions are **COMPULSORY**.
  - 2) Start each answer on a new page.
  - 3) Figures to the right indicate **FULL** marks.
  - 4) Wherever necessary illustrate your answers with suitable and labeled diagrams.
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Long essay questions.

5 × 20 marks

- Q. 1 Describe the various components of the oral diagnostic process. Giving suitable examples, clarify the application of this information in formulation of diagnosis and a treatment plan.
- Q. 2 Explain differential diagnosis of Burning Mouth Syndrome.
- Q. 3 Correlate the pathogenesis and histopathology of oral submucous fibrosis with its clinical features. Discuss the prognosis of this condition.
- Q. 4 Explain the rationale of using various pharmacological and non-pharmacological modalities in the management of myofascial pain dysfunction syndrome. Describe your approach to its effective management.
- Q. 5 Discuss the probable pathogenesis of fibro-osseous lesions. Describe the various investigations required and their interpretation for differential diagnosis of these lesions.

MASTGAD : Oct/Nov-2010  
SUBJECT : ORAL MEDICINE AND RADIOLOGY  
PAPER – III

(Oral and Maxillo-facial Radiology including advanced imaging)

Day : Friday  
Date : 19-11-2010

Time : 9:00 A.M. TO 12:00 NOON.  
Max. Marks : 100

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Start each answer on a new page.
  - 3) Figures to the right indicate **FULL** marks.
  - 4) Wherever necessary illustrate your answers with suitable and labeled diagrams.
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**Long essay questions.**

**5 × 20 marks**

- Q. 1** Explain the role of imaging in maxillo-facial trauma and the principles of interpretation of such images.
- Q. 2** Describe a detailed scheme of differential diagnosis of generalized rarefactions of the jaws.
- Q. 3** Discuss the rationale and methods for radiation protection in diagnostic radiography.
- Q. 4** Describe the various methods of processing x-ray films. Evaluate them in terms of quality and convenience.
- Q. 5** Write a detailed scheme for differential diagnosis of radiopacity in maxillary sinus.

MASTGAD : OCT-NOV-2010  
SUBJECT : ORAL MEDICINE AND RADIOLOGY  
PAPER - IV  
(Essay)

Day : Saturday  
Date : 20-11-2010

Time : 9:00 A.M. TO 12:00 NOON.  
Max. Marks : 100

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Wherever necessary illustrate your answers with suitable and labeled diagrams.

Write ANY ONE essay.

1 × 100 marks

Q. 1 Challenges in temporo-mandibular joint imaging and interpretation.

OR

Diagnosis and management of oral and maxillo-facial viral infections.

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**BHIMGAD: APRIL / MAY 2011**  
**SUBJECT : APPLIED BASIC SCIENCES (2008 Course)**  
**PAPER - I**

Day : Friday  
Date : 13-05-2011

Time: 9:00 A.M. To 12:00 Noon  
Max. Marks : 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw diagrams **WHEREVER** necessary.
- 3) Figures to the right indicate full marks.

**Long Essay Questions:**

- Q.1** Discuss in detail the surgical anatomy of the triangles of the neck and associated structures. Add a note on Modified Neck Dissections of oral squamous cell carcinoma. [20]
- Q.2** Describe the applied anatomy of nose and write in details technique of open rhinoplasty for correction of nasal deformity. [20]

**Short Essay Questions:**

- Q.3** Discuss the healing of fractures with reference to the various stages of the healing process and cellular processes during these stages. [07]
- Q.4** Discuss the anatomy of facial artery, and write briefly about various flaps designed on the same. [07]
- Q.5** Protocol for oral surgery patients on anti coagulant therapy. [07]
- Q.6** Hepatitis B and its prophylaxis. [07]
- Q.7** Extraction procedure in a patient with AIDS - acquired immuno-deficiency syndrome. [07]

**BHIMGAD: APRIL / MAY 2011**  
**SUBJECT : MINOR ORAL SURGERY & TRAUMA (2008 Course)**  
**PAPER - II**

Day : Monday  
Date : 16-05-2011

Time: 9:00 A.M. To 12:00 Noon.  
Max. Marks : 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw diagrams **WHEREVER** necessary.
- 3) Figures to the right indicate full marks.

**Long Essay Questions:**

- Q.1 Classify fractures of the mandibular condyle. Discuss your method of clinical and radiographic evaluation and treatment planning for a patient with an isolated condylar neck fracture. [20]
- Q.2 Discuss odontogenic and non odontogenic infections and factors affecting the spread of infections. Add a note on management of Ludwig's Angina. [20]

**Short Essay Questions:**

- Q.3 Describe using diagrams only the anatomy of the Temporomandibular Joint. Discuss the treatment options for recurrent condylar dislocation. [37]
- Q.4 Classify dental implants. describe in brief the method of 'sinus lift' for the placement of implants in the maxillary posterior region. [07]
- Q.5 Indications of lasers in OMFS. [07]
- Q.6 Anatomy of maxillary sinus and various treatment modalities for oro-antral fistula. [07]
- Q.7 Discuss role of blood component therapy in OMF surgery, add note on its advantages and disadvantages. [07]

**BHIMGAD: APRIL / MAY 2011**  
**SUBJECT : MAXILLOFACIAL SURGERY (2008 Course)**  
**PAPER - III**

Day : Wednesday  
Date : 18.05.2011

Time: 9.00 A.M. To 12.00 Noon,  
Max. Marks : 75

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Draw diagrams **WHEREVER** necessary.
  - 3) Figures to the right indicate full marks.
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**Long Essay Questions:**

- Q.1 Present the surgical technique of Bilateral Sagittal Split Osteotomy (BSSO). [20]  
Discuss the various modifications of this procedure.
- Q.2 Deep neck infections - surgical management and critical care [20]

**Short Essay Questions:**

- Q.3 Present a brief outline of the conservative management for Odontogenic keratocyst. [07]
- Q.4 Describe any one technique for repair of cleft palate. [07]
- Q.5 Transport distraction. [07]
- Q.6 Open rhinoplasty - indications and approach. [07]
- Q.7 Iliac crest graft - techniques to obtain cancellous bone [07]

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BHIMGAD: APRIL / MAY 2011

SUBJECT : ESSAY (2008 Course)  
PAPER - IV

Day : Friday  
Date : 20.05.2011

Time: 9:00 A.M. To 12:00 Noon  
Max. Marks : 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Draw diagrams **WHEREVER** necessary.
- 3) Figures to the right indicate full marks.

Write an essay on:

[100]

**Q.1** Sequencing in Panfacial Trauma.

**OR**

**Q.2** Oral submucous fibrosis.

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**MASTGAD: APRIL/MAY-2012**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER-I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND**  
**PHARMACOLOGY**

**Day :** Saturday  
**Date :** 12.5.2012

**Time :** 9.00 A.M. To 12.00 Noon  
**Max.Marks :** 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate maximum marks.
  - 3) Start each answer on a new page.
  - 4) Illustrate your answers with neat and labeled diagrams.
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**Long Essay Questions :**

**(2 x 20 marks)**

- Q.1** Describe the development of maxilla and write in detail about its neurovascular supply.
- Q.2** Describe the uses of chemotherapeutic agents in malignancies of oral cavity. Mention their complications.

**Short Essay Questions :**

**(5 x 7 marks)**

- Q.3** Discuss gate control theory of pain.
- Q.4** Explain the concept of oral precancer.
- Q.5** Explain the role of white blood cells in defense mechanism.
- Q.6** Describe synergism and antagonism in the use of antimicrobial drugs.
- Q.7** Muscles of mastication.

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**MASTGAD: APRIL/MAY-2012**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER-II: DIAGNOSIS, DIAGNOSTIC METHODS AND IMAGEOLOGY AND**  
**APPLIED ORAL PATHOLOGY**

**Day :** Monday  
**Date :** 14.05.2012

**Time :** 9.00 A.M. To 12.00 Noon  
**Max.Marks :** 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate maximum marks.
- 3) Start each answer on a new page.
- 4) Illustrate your answers with neat and labeled diagrams.

**Long Essay Questions :**

**(2 x 20 marks)**

**Q.1** Describe contrast radiography and its role in the diagnosis of orofacial diseases.

**Q.2** Write the differential diagnosis of radiopaque lesions of jaw bones.

**Short Essay Questions :**

**(5 x 7 marks)**

**Q.3** What is the scope of ultrasound imaging in head and neck region?

**Q.4** Describe various radiation hazards as seen in oral tissues.

**Q.5** Discuss the uses of radioactive isotopes in dentistry.

**Q.6** What are the various causes of loss of lamina dura?

**Q.7** Dosimetry.

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**MASTGAD: APRIL/MAY-2012**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER-III: ORAL MEDICINE, THERAPEUTICS AND LABORATORY**  
**INVESTIGATIONS**

**Day :** Wednesday  
**Date :** 16.05.2012

**Time :** 9.00 A.M. To 12.00 Noon  
**Max.Marks :** 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate maximum marks.
- 3) Start each answer on a new page.
- 4) Illustrate your answers with neat and labeled diagrams.

**Long Essay Questions :**

**(2 x 20 marks)**

- Q.1** Describe the diagnostic and management protocol for immune mediated oral ulcers.
- Q.2** Define and classify pain. Discuss facial neuralgias.

**Short Essay Questions :**

**(5 x 7 marks)**

- Q.3** Write about investigations done in Sjogren's syndrome.
- Q.4** Discuss the dental and oral considerations in geriatric patients.
- Q.5** Describe immunofluorescence and its applications in oral lesions.
- Q.6** Describe the oral manifestations of HIV infection and laboratory investigations to confirm its diagnosis.
- Q.7** Discuss the causes of xerostomia and its management.

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**MASTGAD: APRIL/MAY-2012**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER-IV: ESSAY**

Day : Friday  
Date : 18.5.2012

Time : 9:00 A.M. To 12:00 Noon  
Max.Marks : 75

**N.B.:**

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Illustrate your answer with neat and labeled diagrams.

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**Write an Essay on :**

Palatal swellings

**OR**

Forensic odontology

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**MASTGAD: APRIL/MAY- 2013**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER-I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND**  
**PHARMACOLOGY**

Day : **Thursday**  
Date : **2-5-2013,**

Time : **9:00AM TO 12:00NOON**  
Max.Marks : **75**

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate maximum marks.
- 3) Start each answer on a new page.
- 4) Illustrate your answers with neat and labeled diagrams.

**Long Essay Questions :**

**(2 x 20 marks)**

- Q.1** Describe the structure and function of different papillae of tongue.
- Q.2** Describe the endocrine system with special emphasis on parathyroid glands.

**Short Essay Questions :**

**( 5 x 7 marks)**

- Q.3** Describe the life cycle of red blood cells, along with their functional aspect and investigative procedures for the same.
- Q.4** Write about the antiviral drugs used in orofacial infections.
- Q.5** What are the features, advantages and limitations of placebo controlled trials?
- Q.6** Briefly describe carcinogenesis. List important clinical differences between benign and malignant neoplasms.
- Q.7** Describe ossification, growth and age changes occurring in jaw bones.

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**MASTGAD: APRIL/MAY- 2013**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER-II: DIAGNOSIS, DIAGNOSTIC METHODS AND IMAGEOLOGY AND**  
**APPLIED ORAL PATHOLOGY**

Day : *Saturday*  
Date : *04-05-2013*

Time : *9:00AM TO 12:00NOON*  
Max.Marks : 75

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate maximum marks.
- 3) Start each answer on a new page.
- 4) Illustrate your answers with neat and labeled diagrams.

**Long Essay Questions :**

**(2 x 20 marks)**

- Q.1** Describe various traumatic injuries to orofacial region including radiographic investigations. Add a brief note on their management.
- Q.2** Classify benign neoplasms involving the jaws and describe radiographic features and management of ossifying fibroma.

**Short Essay Questions :**

**( 5 x 7 marks)**

- Q.3** Write about etiopathogenesis, clinical and radiographic features of dentigerous cyst.
- Q.4** Compare and contrast various sensors used in imaging of dento-facial pathologies.
- Q.5** Briefly describe Mc Cune-Albright syndrome.
- Q.6** Describe physical properties of X radiation in context of radiation protection.
- Q.7** Discuss advantages and limitations of cone beam imaging technique.

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**MASTGAD: APRIL / MAY – 2013**  
**SBUEJCT: ORAL MEDICINE & RADIOLOGY**  
**PAPER – III: ORAL MEDICINE, THERAPEUTICS AND LABORATORY**  
**INVESTIGATIONS**

Day: **Monday**  
Date: **06-05-2013**

Time: **9:00AM TO 12:00NOON.**  
Max. Marks: 75

**N.B.:**

- 1) Answer all the questions.
- 2) Draw neat labeled diagram **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions:**

**( 2 x 20 = 40 Marks)**

- Q.1** Discuss gingival enlargements in detail giving their differential diagnosis.
- Q.2** Give differential diagnosis of swelling in parotid region. What investigations are necessary to confirm the diagnosis for this swelling?

**Short Essay Questions:**

**( 5 x 7 = 35 marks)**

- Q.3** Differential diagnosis of Palatal perforation.
- Q.4** Significance of serum chemistry in fibro-osseous disorders.
- Q.5** Describe the role of forensic odontologist for human identification in criminal cases.
- Q.6** Management of burning mouth syndrome.
- Q.7** Fusospirocheatal infections affecting the oral cavity.

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**MASTGAD: APRIL / MAY – 2013**  
**SBUEJCT: ORAL MEDICINE & RADIOLOGY**  
**PAPER – IV: ESSAY**

Day: Wednesday  
Date: 08.05.2013

Time: 9:00AM TO 12:00NOON.  
Max. Marks: 75

**N.B.:**

- 1) Draw neat labeled diagram **WHEREVER** necessary.

**Write an Essay on:**

**( 1 x 75 = 75 Marks)**

**Q.1**

Tongue as a marker in systemic disease

**OR**

**Q.2**

Developmental anomalies of teeth

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**MASTGAD : APRIL/MAY 2014**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER - I : APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND**  
**PHARMACOLOGY**

Day: Saturday  
Date: 19.04.2014

Time: 9.00 A.M. To 12.00 Noon  
Max Marks: 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

**(2 x 20 = 40 Marks)**

- Q.1** Discuss the role of balanced diet in maintenance of oral health.
- Q.2** Describe the course, relations and distribution of facial nerve with its clinical implications.

**Short Essay Questions**

**(5 x 7 = 35 Marks)**

- Q.3** Describe the principles of antibiotic therapy in dentistry.
- Q.4** Write about the structure and contribution of contents of periodontal ligament to its functions.
- Q.5** . Describe the age related changes of maxillary antrum.
- Q.6** Write about pathogenesis of autoimmune disorders and various methods that aid in their diagnosis.
- Q.7** Explain the clotting mechanism along with the investigative procedures in their disorders.

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MASTGAD :

**WINTER - 2014**

**SUBJECT: ORAL MEDICINE AND RADIOLOGY**

**PAPER - II : DIAGNOSIS, DIAGNOSTIC METHODS AND IMAGEOLOGY**

Day: *Thursday*  
Date: *13-11-2014*

Time: *9.00 A.M. To 12.00 Noon*  
Max Marks: 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

**(2 x 20 = 40 Marks)**

**Q.1** Discuss the diagnostic imaging techniques for evaluation of temporomandibular joint disorders.

**Q.2** Describe the detailed scheme for differential diagnosis of generalized rarefactions of the jaws.

**Short Essay Questions**

**(5 x 7 = 35 Marks)**

**Q.3** Discuss the role of contrast radiography in dentistry.

**Q.4** What are the effects of radiation on various orofacial structures?

**Q.5** Write about quality assurance in maxillofacial radiography.

**Q.6** Describe the effects of parathyroid gland disorders on maxillofacial skeleton.

**Q.7** Describe periapical cemental dysplasia and its differential diagnosis.

**MASTGAD : APRIL/MAY 2014**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER - II : DIAGNOSIS, DIAGNOSTIC METHODS AND IMAGEOLOGY**

Day: Monday  
Date: 21-04-2014

Time: 9.00 A.M. To 12.00 Noon  
Max Marks: 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on anew page.

**Long Essay Questions.**

**(2 x 20 = 40 Marks)**

- Q.1** Describe various methods of processing X-ray films. Evaluate them in terms of quality and convenience.
- Q.2** Discuss the diagnostic and interventional imaging techniques for evaluation of salivary gland disease.

**Short Essay Questions**

**(5 x 7 = 35 Marks)**

- Q.3** Write about nuclear medicine as applicable to dentistry.
- Q.4** Give a comparative description of CT scan and CBCT for use in maxillofacial region.
- Q.5** Classify and describe osteomyelitis of jaws with radiographic features.
- Q.6** What is the role of radiology in implantology?
- Q.7** Describe the attributes of an ideal radiograph.

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**MASTGAD : APRIL/MAY 2014**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER - III : ORAL MEDICINE, THERAPEUTICS AND LABORATORY**  
**INVESTIGATIONS**

Day: Friday  
Date: 25.04.2014

Time: 9.00 A.M. To 12.00 Noon  
Max Marks: 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

**(2 x 20 = 40 Marks)**

- Q.1** Discuss differential diagnosis of swellings in the floor of mouth.
- Q.2** Name the diagnostic procedures used in renal diseases. Add a note on its oral manifestations and dental consideration for the same.

**Short Essay Questions**

**(5 x 7 = 35 Marks)**

- Q.3** Write about the post exposure prophylaxis for HIV.
- Q.4** Describe the procedures for different types of biopsies done for oral lesions.
- Q.5** Write about the role of rugoscopy in forensic odontology.
- Q.6** Discuss the differential diagnosis of burning mouth syndrome.
- Q.7** Briefly describe the causes of depapillation of tongue, with a note on its management.



**MASTGAD : APRIL/MAY 2014**  
**SUBJECT: ORAL MEDICINE AND RADIOLOGY**  
**PAPER - IV : ESSAY**

Day: Monday  
Date: 28-04-2014

Time: 9.00 A.M. To 12.00 Noon  
Max Marks: 75

**Write an essay on (ANY ONE):**

**(1 x 75 = 75 Marks)**

**Q.1**

**Role of stress in orofacial disease**

**OR**

**Q.1**

**Saliva - A diagnostic tool**

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**MASTGAD : WINTER - 2015**

**SUBJECT : PAPER – I APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY & PHARMACOLOGY**

Day : Saturday  
Date : 31-10-2015

Time : 09.00 AM TO 12.00 NOON  
Max. Marks : 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

**(2 x 20 = 40 Marks)**

- Q.1** Explain the process of carcinogenesis and metastasis. Write a note on grading and staging. Mention about the methods that assist in their diagnosis.
- Q.2** Discuss the muscles of mastication along with their applied anatomy.

**Short Essay Questions.**

**(5 x 7 = 35 Marks)**

- Q.3** Write in brief about biochemical analysis of saliva in oral diseases.
- Q.4** Write about formation and function of erythrocytes in humans.
- Q.5** Describe synergism and antagonism in the use of antimicrobial drugs.
- Q.6** Describe the physiology of taste sensation. Name various gustatory disorders and method of assessing taste.
- Q.7** Discuss the features, advantages and limitations of randomized controlled trials.

**MASTGAD : SUMMER 2015**  
**SUBJECT : PAPER – I APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY & PHARMACOLOGY**

Day : Monday  
Date : 20-04-2015

Time : 9.00 A.M. To 12.00 Noon  
Max. Marks : 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

(2 x 20 = 40 Marks)

- Q.1** Describe the uses of chemotherapeutic agents in oral malignancies, mentioning their complications.
- Q.2** Describe the composition and functions of saliva. Explain its role in oral homeostasis.

**Short Essay Questions.**

(5 x 7 = 35 Marks)

- Q.3** Describe the course and distribution of ninth cranial nerve.
- Q.4** Briefly describe the development of palate with a note on associated disorders.
- Q.5** Explain the role of vitamins and minerals in formation and maintenance of orafacial structures.
- Q.6** Explain the clotting mechanism. Mention about the investigations required in the diagnosis of clotting disorders.
- Q.7** Discuss the concept of oral pre-cancer.

MASTGAD : WINTER - 2015

**SUBJECT : PAPER – II : DIAGNOSIS, DIAGNOSTIC METHODS & IMAGEOLOGY & APPLIED ORAL PATHOLOGY**

Day : Monday  
Date : 02-11-2015

Time : 09.00 AM TO 12.00 NOON  
Max. Marks : 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

**(2 x 20 = 40 Marks)**

- Q.1** Discuss imaging of salivary glands with a note on advantages and limitations of each modality.
- Q.2** Give a detailed scheme of differentiating pathologies giving mixed radiolucent-radiopaque appearance in the jaws.

**Short Essay Questions.**

**(5 x 7 = 35 Marks)**

- Q.3** Describe pros and cons of radiotherapy in head and neck region.
- Q.4** Discuss the radiographic appearance of metastatic tumours in mandible.
- Q.5** Describe a suitable method for localizing a foreign body in pterygo-mandibular area.
- Q.6** Compare and contrast the utility of CT and CBCT in maxillofacial region.
- Q.7** Describe submentovertex projection with its advantages and limitations.

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**MASTGAD : SUMMER 2015**  
**SUBJECT : PAPER – II : DIAGNOSIS, DIAGNOSTIC METHODS & IMAGEOLOGY & APPLIED ORAL PATHOLOGY**

Day : *Wednesday*  
Date : *29.04.2015*

Time : *9.00 A.M. To 12.00 Noon*  
Max. Marks : 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

(2 x 20 = 40 Marks)

**Q.1** Describe in detail the cyst and cyst-like radioluceucies associated with impacted teeth.

**Q.2** Discuss the causes of loss of lamina dura with their management.

**Short Essay Questions.**

(5 x 7 = 35 Marks)

**Q.3** What is the role of forensic odontologist criminal cases?

**Q.4** Describe clinical and radiographic features of Garre's osteomyelitis.

**Q.5** Give differential diagnosis of unilateral opacities of maxillary antrum.

**Q.6** Write about the role of MRI in diagnosis of oral and maxillofacial pathologies.

**Q.7** What are the radiographic differences between benign and malignant tumours.

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**MASTGAD : SUMMER 2015**  
**SUBJECT : PAPER – III : ORAL MEDICINE, THERAPEUTICS & LABORATORY INVESTIGATIONS**

Day : Friday  
Date : 24.04.2015

Time : 9.00 A.M. To 12.00 Noon  
Max. Marks : 75

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

**Long Essay Questions.**

**(2 x 20 = 40 Marks)**

- Q.1** Discuss in detail the differential diagnosis of glossodynia.
- Q.2** Describe various antoimmune disorders affecting the oral cavity.

**Short Essay Questions.**

**(5 x 7 = 35 Marks)**

- Q.3** Write about the investigations necessary for diagnosis of fungal infections.
- Q.4** Give differential diagnosis of cervicofacial lymphadenopathy.
- Q.5** Briefly discuss various conditions affecting eruption of teeth.
- Q.6** Describe the clinical features and management of xerostomia.
- Q.7** Discuss pigmentation of orofacial tissues in brief.

**MASTGAD : SUMMER 2015**  
**SUBJECT : PAPER – IV : ESSAY**

Day : **Monday**  
Date : **27-04-2015**

Time : **9.00 A.M. To 12.00**  
Max. Marks : 75  
**Noon**

**N.B.**

- 1) Answer all the questions.
- 2) Neat diagrams must be drawn **WHEREVER** necessary.
- 3) Start each answer on a new page.

Write an essay on any **ONE**:

(1 x 75 = 75 Marks)

**Q.1** Nutrition and oral health.

**OR**

**Q.1** Role of oral physician in systemic diseases.

\* \* \*

**MASTGAD: SUMMER – 2016**  
**SUBJECT: PAPER – I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY**  
**AND PHARMACOLOGY**

Day: Monday  
Date: 06/06/2016

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**N.B.:**

- 1) Answer all the questions.
- 2) Figures to the right indicate **FULL** marks
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

**Long Essay Questions:**

**(2 × 20 = 40 Marks)**

- Q.1** Describe the course, relation and distribution of the Trigeminal nerve with its clinical implications.
- Q.2** Describe the composition of saliva. Explain the role of saliva in oral homeostasis.

**Short Essay Questions:**

**(5 × 7 = 35 Marks)**

- Q.3** Discuss the role of various anti fungal drugs in the practice of Oral Medicine.
- Q.4** Explain the pathogenesis of auto immune disease. Name the laboratory methods that assist in their diagnosis.
- Q.5** Explain vascular basis of cavernous sinus thrombosis.
- Q.6** What are the features, advantages and limitations of placebo controlled trials?
- Q.7** Explain the mechanism of clotting. Enumerate investigations required in the diagnosis of clotting disorders.

**MASTGAD: SUMMER – 2016**  
**SUBJECT: PAPER – II: DIAGNOSIS, DIAGNOSTIC METHODS AND**  
**IMAGEOLOGY AND APPLIED ORAL PATHOLOGY**

Day: Wednesday  
Date: 08/06/2016

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**N.B.:**

- 1) Answer all the questions.
- 2) Figures to the right indicate **FULL** marks
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

**Long Essay Questions:**

**(2 × 20 = 40 Marks)**

- Q.1** Describe the differential diagnosis of multi-locular lesions involving the jaws.
- Q.2** Describe in detail the various Principles, Advantages and Limitations of Orthopantomography. Add a note on causes and rectification of errors in Orthopantomography.

**Short Essay Questions:**

**(5 × 7 = 35 Marks)**

- Q.3** Imaging of maxillary sinus.
- Q.4** Radiographic appearance of Fibrous Dysplasia.
- Q.5** Role of Ultrasonography in Oral and Maxillo-facial Imaging.
- Q.6** Intensifying screens.
- Q.7** Radiolucent Landmarks seen in maxillary intra - oral Radiographs.



**MASTGAD: SUMMER – 2016**  
**SUBJECT: PAPER – III: ORAL MEDICINE, THERAPEUTICS AND**  
**LABORATORY INVESTIGATIONS**

Day: Friday  
Date: 10/06/2016

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**N.B.:**

- 1) Answer all the questions.
- 2) Figures to the right indicate **FULL** marks
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

**Long Essay Questions:**

**(2 × 20 = 40 Marks)**

- Q.1** Classify vesiculo bullous ulcerative lesions affecting the oral mucosa. Describe in detail the etiopathogenesis, clinical features, investigations and management of Pemphigus.
- Q.2** Discuss in detail the differential diagnosis of Xerostomia.

**Short Essay Questions:**

**(5 × 7 = 35 Marks)**

- Q.3** Oral manifestations and dental considerations of renal disease.
- Q.4** Role of vital staining as a diagnostic method.
- Q.5** Discuss the role of bite marks in forensic Odontology.
- Q.6** Recent advances in management of oral submucous Fibrosis (OSMF).
- Q.7** Staging of Oral Cancer.

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**MASTGAD: SUMMER – 2016**  
**SUBJECT: PAPER – IV: ESSAY**

Day: Monday  
Date: 13/06/2016

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**N.B.:**

- 1) Draw neat and labeled diagrams **WHEREVER** necessary.

**Write an Essay:**

**(1 × 75 = 75 Marks)**

**Q.1** Viral infections of the Orofacial region.

**OR**

Radiation Hazards in Oral Radiology and various methods to reduce the radiation exposure.

\* \* \* \*

**MASTGAD: SUMMER – 2017**  
**SUBJECT : PAPER – I : APPLIED ANATOMY, PHYSIOLOGY,**  
**PATHOLOGY AND PHARMACOLOGY**

Day : Friday  
Date : 19/05/2017

Time : 09.00 AM TO 12.00 NOON  
Max. Marks : 75

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**N. B. :**

- 1) Answer all the questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 

**Long Essay Questions:**

**(2 × 20 = 40 Marks)**

- Q. 1** Describe the regulatory mechanism of steroid secretion. Describe the pharmacological action of steroids which make them suitable in management of oral pathologies.
- Q. 2** Describe the functional anatomy of Temporomandibular Joint. Name five functional disorders affecting this joint.

**Short Essay Questions:**

**(5 × 7 = 35 Marks)**

- Q. 3** Describe in detail the healing of oral wound.
- Q. 4** Explain the features, advantages and limitations of randomized controlled trials.
- Q. 5** Platelets.
- Q. 6** Describe the principles of Antibiotic therapy in Dentistry.
- Q. 7** Briefly write about development of tongue. Add a note on nerve supply and blood supply of tongue with its clinical implications.

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**MASTGAD : SUMMER – 2017**  
**SUBJECT : PAPER – III : ORAL MEDICINE, THERAPEUTICS**  
**AND LABORATORY INVESTIGATIONS**

Day : Wednesday

Date : 24/05/2017

Time : 09.00 AM TO 12.00 NOON

Max. Marks : 75

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**N. B. :**

- 1) Answer all the questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 

**Long Essay Questions:**

**(2 × 20 = 40 Marks)**

- Q. 1** Classify vesiculo bullous ulcerative lesions affecting the oral mucosa. Discuss in detail about the differential diagnosis and management of acute multiple ulcers affecting the oral mucosa.
- Q. 2** Describe various diagnostic aids that can be used in diagnosis of oral pre-cancer and cancer.

**Short Essay Questions:**

**(5 × 7 = 35 Marks)**

- Q. 3** Describe the oral manifestations and dental considerations for a patient with Diabetes Mellitus.
- Q. 4** Discuss the role of Cheiloscopy in Forensic Odontology.
- Q. 5** Recent diagnostic tests for examination of the Tongue.
- Q. 6** Describe in detail the etiopathogenesis, clinical features and management of acute pseudomembranous candidiasis.
- Q. 7** Describe clinical features, investigations and management of Sjogren's Syndrome.

**MASTGAD : SUMMER – 2017**  
**SUBJECT : PAPER – II : DIAGNOSIS, DIAGNOSTIC METHODS AND**  
**IMAGEOLOGY AND APPLIED ORAL PATHOLOGY**

Day : Monday  
Date : 22/05/2017

Time : 09.00 AM TO 12.00 NOON  
Max. Marks : 75

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**N. B. :**

- 1) Answer all the questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 

**Long Essay Questions:**

**(2 × 20 = 40 Marks)**

- Q. 1** Describe in detail the differential diagnosis for radio-opaque lesions affecting the jaws.
- Q. 2** Describe in detail the applications of CBCT in Clinical Dentistry and Research.

**Short Essay Questions:**

**(5 × 7 = 35 Marks)**

- Q. 3** Discuss the radiographic differences between benign and malignant tumours affecting the jaws.
- Q. 4** Describe the means of protection for patient and operator from primary radiation.
- Q. 5** Grids.
- Q. 6** Role of Magnetic Resonance Imaging (MRI) in oral and maxillo-facial imaging.
- Q. 7** Describe the pros and cons of Radiotherapy to head and neck region.

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**MASTGAD : SUMMER – 2017**  
**SUBJECT : PAPER – IV : ESSAY**

Day : Friday  
Date : 26/05/2017

Time : 09.00 AM TO 12.00 NOON  
Max. Marks : 75

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**N. B. :**

- 1) Draw neat and labelled diagrams **WHEREVER** necessary.
- 

**Write an Essay:**

**(1 × 75 = 75 Marks)**

**Q. 1** Giant Cell Lesions of the Jaws.

**OR**

**Q. 1** Temporomandibular Joint (TMJ) Imaging.

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**M.D.S. ORAL MEDICINE & RADIOLOGY : SUMMER - 2018**

**SUBJECT: PAPER-IV – ESSAY**

Day : **Friday**  
Date : **15/06/2018**

**S-2018-3626**

Time : **09.00 AM TO 12.00 NOON**  
Max. Marks: 75.

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**N.B.:**

- 1) Draw neat and labeled diagrams **WHEREVER** necessary.
- 

**Write an Essay**

**(1 x 75 = 75 Marks)**

**Q.1**      Diagnosis and Management of Salivary Gland Disorders.

**OR**

**Q.1**      Panoramic Imaging.

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150618-m-dental-pune

**M.D.S. Oral Medicine & Radiology : SUMMER - 2019**  
**SUBJECT: PAPER -I: APPLIED ANATOMY, PHYSIOLOGY, PATHOLOGY AND**  
**PHARMACOLOGY**

Day: Saturday  
Date: 01/06/2019

**S-2019-4080**

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**N.B.:**

- 1) Answer all the questions.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

**Long Essay Questions:**

**(2 × 20 = 40 Marks)**

- Q.1** Describe the functional components and testing of the 5<sup>th</sup>, 7<sup>th</sup>, 9<sup>th</sup> and 12<sup>th</sup> cranial nerves. Explain the anatomical basis of clinical features of facial nerve palsy.
- Q.2** Define and classify shock. Write in detail the patho-physiology, signs, symptoms and management of anaphylactic shock.

**Short Essay Questions:**

**(5 × 7 = 35 Marks)**

- Q.3** Discuss the role of various anti-fungal drugs used in oro- facial infections.
- Q.4** Define pain. Explain the patho-physiology of pain.
- Q.5** Explain the physiology of taste sensation. List various gustatory disorders.
- Q.6** Describe various sampling techniques. Add a note on estimation of sample size.
- Q.7** Describe the structure and function of periodontal ligaments.

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**M.D.S. Oral Medicine & Radiology : SUMMER - 2019**  
**SUBJECT: PAPER –II: DIAGNOSIS, DIAGNOSTIC METHODS AND IMAGEOLOGY**  
**AND APPLIED ORAL PATHOLOGY**

Day: Monday  
Date: 03/06/2019

**S-2019-4081**

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**N.B.:**

- 1) Answer all the questions.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

**Long Essay Questions:**

(2 × 20 = 40 Marks)

- Q.1 Discuss in detail the cyst and cyst-like radiolucencies associated with impacted teeth.
- Q.2 Discuss the diagnostic and interventional imaging techniques for evaluation of Temporomandibular Joint.

**Short Essay Questions:**

(5 × 7 = 35 Marks)

- Q.3 Implant Imaging.
- Q.4 Discuss the Radiographic appearance of metastatic tumors in jaws.
- Q.5 Role of Fusion Imaging in Oral and Maxillo-facial Imaging.
- Q.6 Compare and contrast various sensors used in Oral and Maxillo-facial Imaging.
- Q.7 Discuss the current guidelines on Radiation Protection in Oral and Maxillo-facial Imaging.

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**M.D.S. Oral Medicine & Radiology : SUMMER - 2019**  
**SUBJECT: PAPER -III: ORAL MEDICINE, THERAPEUTICS AND LABORATORY INVESTIGATIONS**

Day: Thursday  
Date: 06/06/2019

**S-2019-4082**

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**N.B.:**

- 1) Answer all the questions.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.

**Long Essay Questions:**

(2 × 20 = 40 Marks)

- Q.1 Classify various diseases affecting the salivary glands. Describe the etiopathogenesis, clinical features, investigations and management of Sjogren's Syndrome.
- Q.2 Discuss in detail the differential diagnosis of palatal perforation.

**Short Essay Questions:**

(5 × 7 = 35 Marks)

- Q.3 Describe in detail the oral manifestations and dental considerations of thalassemia.
- Q.4 Discuss the role of Forensic Odontologist in VIRTOPSY.
- Q.5 Discuss the procedures for different types of biopsies done for oral lesions.
- Q.6 Recent advances in management of Recurrent Aphthous stomatitis.
- Q.7 Describe in detail the clinical features and management of herpes zoster.

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**M.D.S. Oral Medicine & Radiology : SUMMER - 2019**  
**SUBJECT: PAPER-IV: ESSAY**

Day: Saturday  
Date: 08/06/2019

Time: 09.00 AM TO 12.00 NOON  
Max. Marks: 75

**S-2019-4083**

**N.B.:**

- 1) Draw neat and labeled diagrams **WHEREVER** necessary.

**Write an Essay:**

**(1 × 75 = 75 Marks)**

**Q.1** Oral Malignancy.

**OR**

Cone Beam Computed Tomography. (C.B.C. T.)

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080619-m-dental-pune

**M.D.S. PART – I (2018 COURSE) (ORAL MEDICINE & RADIOLOGY): SUMMER 2021**  
**SUBJECT: BASIC SCIENCES**

Day: Monday  
Date: 06-09-2021

Time: 09:00 AM-12:00 PM  
Max Marks.100

**S-20247-2021**

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.

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- |             |   |             |
|-------------|---|-------------|
| <b>Q.1</b>  | Describe in detail tumor angiogenesis.  | <b>(10)</b> |
| <b>Q.2</b>  | Describe the functional anatomy of temporomandibular joint. Name five functional disorders affecting the temporomandibular joint. | <b>(10)</b> |
| <b>Q.3</b>  | Describe the various factors affecting the healing of wound. Briefly explain the healing of wound associated with fracture site.  | <b>(10)</b> |
| <b>Q.4</b>  | Discuss the physiology of taste perception with its applied aspects.  | <b>(10)</b> |
| <b>Q.5</b>  | Explain vascular basis of cavernous sinus thrombosis.   | <b>(10)</b> |
| <b>Q.6</b>  | Discuss the features, advantages and limitations of randomized controlled trials.   | <b>(10)</b> |
| <b>Q.7</b>  | Explain the process of carcinogenesis and metastasis. Write a note on grading and staging of oral malignancies.                   | <b>(10)</b> |
| <b>Q.8</b>  | Describe the mechanism of action of parathyroid hormone and its role in calcium homeostasis.                                      | <b>(10)</b> |
| <b>Q.9</b>  | Describe in detail the development of maxilla and palate.   | <b>(10)</b> |
| <b>Q.10</b> | Discuss in detail the use of corticosteroids in the practice of Oral Medicine.  | <b>(10)</b> |

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