

# MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

## SYLLABUS : FINAL BDS

Candidate will be examined in the following subjects :

1. Prosthodontics
2. Conservative Dentistry including Endodontics.
3. Pedodontics.
4. Oral and Maxillofacial Surgery.
5. Periodontics.
6. Orthodontics.
7. Oral Medicine and Radiology.

### **Subject 1 : PROSTHODONTICS AND CROWN AND BRIDGE**

**LECTURES: 50 Lectures.**

#### Complete Denture Prosthodontics :

1. Introduction to Prosthodontics, Terminologies , Aims , Objectives and scope
2. Human Masticatory apparatus : General consideration.
3. Anatomical & Physiological Landmarks of the maxillary and Mandibular Foundations and their significance.
4. Patients education related to complete denture prosthesis.
5. History taking, examination, diagnosis and treatment planning of an edentulous patient.
6. Importance of Diet and Nutrition.
7. Surgical and Non surgical preparation of the patient.
8. Impressions for complete Denture:  
Definition, Objectives.  
Theories and Techniques of impression making.
9. Bordor moulding procedure with special attention to Posterior platal seal area.  
Various techniques for cast preparation.

#### 10) Record Bases and occlusion rims :-

materials and methods of preparation.

#### 11) Jaw relation records – Methods and instrumentation.

Orientation relation (Face bow record)

Vertical Jaw Relation

Horizontal Jaw Relations.


#### 12) Mandibular Movements and different types of articulators.

#### 13) Selection and arrangement of teeth- Anterior and posterior

Concepts of occlusion, Balanced occlusion and factors responsible for the same.

**B] Removable partial Dentures. :30 Lectures.**

1. Introduction to partial denture, various terminologies used in partial denture.
2. Various components of fixed and removable partial denture and their comparison.
3. Classification of partially edentulous dental arches.
4. Dental cast surveyor and use of surveying procedure, path of insertion and removal.
  5. Components of partial dentures; Their selection, requirements of design and indications. (principles of designing and stress control)
    - a) The partial denture bases.
    - b) The artificial teeth.
    - c) The Direct Retainer.
    - d) The major connector.
    - e) The minor connector.
    - f) The indirect retainer.
    - g) The stress breaker.
    - h) The precision attachments.
6. Examination, diagnosis , treatment planning, surveying of diagnostic cast.
7. Preparation of patient to receive partial denture : General preparation.
8. Tooth alteration procedure. Making final impression to get master cast. Various impression procedure and Reviews on materials used.
9. Definitive analysis of master cast, work authorization to Dental Technician.
10. Laboratory procedures related to casting for fabrication of partial denture framework (Audio Visual demonstration.)
11. Trying of cast partial framework in mouth, adjusting the occlusion. The functional impression : Altered cast technique.
12. Jaw Relation record, selection and arrangement of teeth & try-in of denture.
13. Acrylization of partial denture bases-
14. Insertion of Removable partial denture & instructions to patient .
15. Patients Complaints and their solution.
16. Factors influencing magnitude of stress transfer on abutment teeth.
17. Management of Kennedy CI I & II Cases and CI III & IV cases.
18. Perioprosthodontic relationship.

  
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**Special Prosthesis : Lectures :- 20**

Brief introduction & general consideration.

1. Maxillofacial prosthesis - Aims & objectives, various types , materials used for maxillofacial prosthesis. Obturators & splints.
2. Overdentures, Immediate denture, Intermediate/ Interim or denture Implant denture,
3. Prosthodontic consideration in geriatric patient.

Theory Hours :

- |    |                          |   |          |
|----|--------------------------|---|----------|
| 1. | Complete Denture         | : | 50 Hours |
| 2. | R.P.D.                   | : | 30 Hours |
| 3. | Fixed partial Denture    | : | 30 Hours |
| 4. | Maxillofacial Prosthesis | : | 20 Hours |

hand special

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Total 130 Hours

130 Hours Spread over Ist to IVth BDS

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Preclinical Hours : .... 360 Hrs.

Spread over Ist & II BDS.

Clinical Hours : .... 540 Hrs.

Spread over IIIrd & IV BDS.

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Total Duration : .... 1000 Hrs.

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**EXAMINATION PATTERN**

**I. Theory (Maximum) ----- 60 Marks**

Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

**Section A** : MCQ - Total 20 Marks.

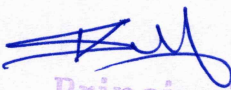
20 multiple choice questions carrying one mark each.... 20 marks.

**Section B** : SAQ - Total 20 marks.

Ten short questions carrying two marks each ..... 20 marks.

**Section C** : LAQ - Total 20 Marks.

Two long answer question carrying ten marks each ..... 20 marks.

  
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and pinlays, Restorative procedures Matrices.

15. Drugs used in conservative dentistry.
16. Introduction to recent advances in restoration materials and procedures.
17. Fractured teeth and their management, effect of systemic diseases on dental tissues.
18. Sensitive dentine - its management.
19. Ceramics in Conservative Dentistry.
20. Perio-operative problems.
21. Biological aspects of restorative materials.
22. Role of conservative Dentistry in esthetics.
23. Current advances

#### **ENDODONTICS :**

1. Definition, aims, objects.
2. Rationale of endodontic therapy, morphology of root canal.
3. Diseases of the pulp and periapical tissue & endodontic entries.
4. Diagnostic aids in Endodontics.
5. Endodontic Instruments.
6. Care and sterilization on instruments for endodontics treatment of vital and non vital pulp. Tests for sterility of the root canal.
7. Drug used in root canal therapy.
8. Biomaterial preparation & obturation of Root canal various techniques and material used.
13. Geriatric endodontics.
10. Bleaching of teeth, Restoration of endodontically treated teeth.
11. Surgical treatment in Endodontics.
12. Emergencies in Endodontics, Endo-Perio Problems.
13. Recent advances.

#### **EXAMINATION PATTERN :**

I. Theory (Maximum)----- 60 Marks


Theory (written) paper shall be of three hours duration.

Theory paper shall have three parts A,B, & C.

Section A : MCQ - Total 20 Marks.

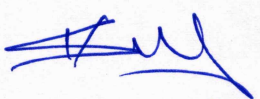
20 multiple choice questions carrying one mark each

20 marks.

  
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## LECTURES :

1. Introduction, definition, scope, practice management and importance of pedodontics.
2. Growth and development of Dental and oro- facial structure and normal occlusion. Developmental anomalies Genetics related to pedodontics.
3. Morphology of Dentitions and its applications :
  - a) Allied Morphology and Histology of primary and young permanent teeth.
  - b) Importance of first permanent molar.
4. Fundamental of Dental Health.
  - a) Biological factors responsible for maintenance of dental and Oral Health.
  - b) Contributory Local factors affecting oral health plaque & Saliva etc.
5. Child psychology and management of child patient.
  - a. Physical development of child
  - b. Milestone of child development & behavioral pattern as narrated in various theories.
  - c. Fear & anxiety related to pedodontics.
6. Preventive, interceptive and early corrective orthodontics for children.
7. Examination, diagnosis and treatment planning.
8. Preventive dentistry, fluorides, fissure sealants diet counselling etc. Endemic fluorosis.
9. Endodontics in pediatric dentistry.
10. Clinical aspects of pediatric dentistry as related to  
Setting of pedodontic clinic.  
Teeth disorders.  
Development Anomalies  
Dental caries in children  
Restorative Dentistry  
Pulp Therapy and Endodontics  
Space Maintainers & Myofunctional appliances .  
Treatment of traumatized teeth.  
Management of problems of the primary and mixed dentition period,  
Gingival disorders in children.  
Stomatological conditions in children

  
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### **Subject 4 : ORAL & MAXILLOFACIAL SURGERY.**

Theory Hours :

- |                                  |     |          |
|----------------------------------|-----|----------|
| 1. Anaesthesia (Local & general) | ... | 10 Hours |
| 2. Exodontia                     | ... | 10 Hours |
| 3. Oral & Maxillofacial Surgery  | ... | 40 Hours |

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60 Hours

Spread over III & IV BDS.

Clinical Hours : .... 220 Hours

Total Duration : .... 280 Hours

#### **LECTURES :**

##### ***Local Anaesthesia :***


1. Introduction, Theories of Local Anaesthesia.
2. Properties of an Ideal Local anaesthetic drug.
3. Classification & Properties of common local anaesthetic drugs in use.
4. Choice of anaesthesia, Local and general anaesthesia.
5. Indications and contra-indications, advantages and disadvantages of local anaesthesia.
6. Components of a standard local anaesthetic solution.
7. Mechanism of action of local anaesthesia.
8. Pre-anaesthetic medication.
9. Technique of infiltration anaesthesia, Nerve block Anaesthesia. Signs and Symptoms of anaesthesia.
10. Complications associated with local anaesthesia and their management.

##### ***General Anaesthesia :***

1. Properties of general anaesthetic drugs commonly used.
2. Pre-anaesthetic preparation of a patient and pre-medication.
3. Evaluation of a patient for general anaesthesia.
4. Short anaesthesia in Oral surgery, Endotracheal Anaesthesia, Intravenous anaesthesia.
5. Signs and Symptoms of general anaesthesia.
6. Complications arising during the administration of general anaesthesia and their management.

##### **Exodontia :**

1. Objectives.

  
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20. Diseases of temporomandibular joint & its management.
21. Neurological disorders, Trigeminal Neuralgia & facial palsy.
22. Cleft lip & cleft palate.
23. Emergencies in oral surgery and its management.
24. Recent advances



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6. Degenerative conditions-Viz disquaptive gignivities and Junvenile periodontics (Gingivosis and Periodontosis.)
7. Atrophic conditions affecting gingival and periodontal tissues including aging.Periodontal problems in growing children.
8. Local and systematic factors in the causation of gingival and periodontal lesions.
9. Periodontitis and its sequelae.
10. Malocclusion, Malalignment and traumatic occlusion, Bruxsim and Tempero mandibular joint disturbances, occlusal equilibration.
11. Diagnosis and diagnostic aids including roentgenography and its uses and limitations.
12. Prognosis.
13. Morphological defects of the muco-gingival structures influencing periodontium and their treatment.
14. Treatment of all gingival and periodontal disturbances treatment planning phase and rationale. And periodontal charting Different available therapeutic procedures.  
Healing Mechanism.
15. Role of Nutrition in etiology and treatment of periodontal diseases.
16. Drugs & materials used in periodontics.
17. Instrumentation.
18. Splints.
19. Preventive periodontics.
20. Concept of focal infection.
21. Oral hygiene practices in India.
22. Inter disciplinary care & recent advances, Implants,
23. Systemic effects of periodontal diseases in brief.
24. Recent advances in periiodontics .

  
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**Subject 6 : ORTHODONTICS.**

Theory Hours : ..... 40 Hours.  
Practicals & Clinical Hrs. : ..... 150 Hours.

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Total Duration : ... 190 Hours. Spread over III & Final BDS

**LECTURES :**


Stress in lectures should be on the Preventive and Interceptive principles of Orthodontics.

1. Definition, Aims, objects and scope of Orthodontics.
2. Growth and Development of jaws, teeth, face and skull.
3. Genetics as applied to Orthodontics.
4. Normal occlusion and its characteristics. Factors responsible for establishment and maintenance of normal occlusion.
5. Malocclusion-types, different classifications & differential diagnosis.
6. Aetiology of malocclusion.
7. History taking and examination of patient and case analysis and differential diagnosis including photographic analysis, cephalometrics and analysis and treatment planning and prognosis.
8.
  - a) Preventive and interceptive treatment aids of malocclusion.
  - b) Space management in orthodontics.
  - c) Treatment of CI I, CI II, CI III malocclusions
9. Appliances used in Orthodontic treatment - Adequate knowledge of removable and fixed appliances, Mechanical appliances and functional appliances
10. Biological and biomechanical aspects of Orthodontics treatment.
11. Retention after treatment and relapse.
12. Materials used in Orthodontics.
13. Habit breaking appliances.
14. Surgical Orthodontics.
15. Current advances.

**EXAMINATION PATTERN :**

I.THEORY (Maximum)----- 60 MARKS.

Theory (written) paper shall be of three hours duration.

  
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**Subject 7 : ORAL MEDICINE, DIAGNOSIS & RADIOLOGY.**

Theory Hours : ..... 40 Hours.

Clinical Hrs. : ..... 90 Hours.

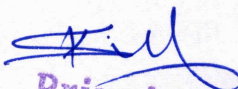
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Total Duration : ... 130 Hours. Spread over III & IV BDS

**LECTURES :**

Oral Medicine and Diagnosis :

1. Scope and importance of the subject.
2. Acute infections of oral & perioral structures.
3. Ulcerative & Vesiculobullous lesions of oral cavity.
4. Red and White lesions affecting oral mucosa.
5. Pigmentation of oral-tissues.
6. Diseases of tongue.
7. Diagnosis and differential diagnosis of Caries, Pulpitis & Periodontitis & regressive changes of dentition.
8. Metabolic, allergic and Endocrine disturbances and their oral manifestations.
9. Nutritional deficiencies and their significance in dentistry.
10. Blood dyscrasias and their management.
11. Oral sepsis and its effect on general system.
12. Dermatological disorders & their oral manifestations.
13. Disorder of Temporomandibular joints.
14. Diseases of Jaw-bone.
15. Diseases of Maxillary-Sinus.
16. Oral Pre-malignant lesions.
17. Benign & malignant neoplasms of oral cavity.
18. Cervico-facial lymphadenopathy.
19. Diseases of salivary glands.
20. Oro-Facial pain.
21. Cysts of the oral cavity.
22. Management of Cardiac patient in dentistry.
23. Methods of diagnosis including special investigations.
24. Immunological concepts of oral lesions, HIV Infection, Hepatitis & other viral infections.
25. Forensic odontology.
26. Recent advances.

  
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## APPENDIX-C

### **SCHEME OF INTERNAL ASSESSMENT**

To assess the overall progress of the students by evaluating the professional skills he/she has developed and the knowledge he has got it is necessary to assess the students periodically. The marks to be allotted should be real estimate of the students achievement of skills and subject knowledge without any prejudice.

Maximum marks allotted for internal assessment for each subject head in theory and practical/clinical will be 20 % of the total marks.

In all four college tests shall be conducted in one academic year i.e. two tests in each term. Each test will have marks as under:

For final B.D.S. subjects :- Four college tests tube conducted in theory in final B.D.S. only. However for clinical & Practical test – 2 tests to be conducted in 3<sup>rd</sup> B.D.S. as a post ending test and 2 tests to be conducted in final BDS as a post ending test during clinical posting as under.-

#### **FIRST TERM.**

- a. First internal (for the syllabus completed from the start of term till commencement of the examination) Unit Test.
- b. Second Internal : Should include entire syllabus completed in first term (TERMINAL EXAMINATION)

#### **SECOND TERM**

- c. Third internal : Should including the topics covered only in the second term till the commencement of the examination (Unit Test)
- d. Fourth Internal should include entire syllabus prescribed by the university (PRELIMINARY EXAMINATION)
- e. The pattern of Internal Assessment will be as under:

##### **1. THEORY**

Written .... 40 Marks.

(Section A : 20 MCQ ... 10 Marks, Section B : 10 SAQ ... 20 Marks, Section C : Two LAQ ... 10 Marks,)


Oral .... 10 Marks.

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Total ----- 50 Marks.

##### **2. PRACTICAL/CLINICAL ..... 50 Marks.**

The marks for each test will be brought down to ... 5 Marks.

  
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2) **SUBJECT : CONSERVATIVE DENTISTRY INCLUDING ENDOTONTICS** Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	History taking Examinations and Treatment Planning	Cavity Preparation for Silver Amalgam Modified Class II MO. or DO or Class one Cavity with Buccal or Lingual Extensions	Base/Lining along with Matrix Band adaptation	Registration with Dental Amalgam and Chair side orals related with exercises	Clinical Work Record	Total
	(10)	(25)	(15)	(25)	(5)	(80)

3) **SUBJECT : PEDODONTICS**

Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Clinical Case Exam. of a Child History taking and Diagnosis	Chair Side Orals	Treatment Planning	Record (Journal)	Total
	(35)	(25)	(10)	(10)	(80)

4) **SUBJECT : ORAL MAXILLOFACIAL SURGERY**

Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED


Roll No.	Clinical Case History Exam. X-ray Interpretation Instruments and Drugs.	Local Anaesthesia Technique	Exodontia Technique	Post Operative Instructions, Management and Chair Side Orals	Journal	Total
	(20)	(15)	(25)	(15)	(5)	(80)

5) **SUBJECT : PERIODONTICS**

Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Clinical Case History Exam. Treatment Planning	Scalling and Polishing and Instrumentation	Post Operative Instructions and Chair Side Orals	Journal	Total
	(20)	(40)	(15)	(5)	(80)

  
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**APPENDIX - F**  
**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK**  
**Final B.D.S. Summer / Winter 200\_\_ Examination**

Subject : \_\_\_\_\_

Name of the Centre: \_\_\_\_\_

Date of Practical Conduction: \_\_\_\_\_

(No Straching or overwriting please) correction if any to be signed by External & Internal Examiners both.

: ORAL EXAMINATION MARKS :

Roll No.	Enrollment No.	Marks allotted out of 20 (Max)	
		in figures	in words

**External Examiners :**


**Internal Examiners :**

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

  
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			iii) Theory + Oral iv) Internal Assessment (Theory)	80 20	40 -	200	150
			iv) Theory + Oral + Internal Assessment (Theory)	100	50		
			i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical + Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		
4	Oral and Maxillofacial Surgery		i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) iv) Theory + Oral + Internal Assessment (Theory)	60 20 80 20 100	- - 40 - 50	200	150
			i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical + Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		
5	Pedodontics		i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) iv) Theory + Oral + Internal Assessment (Theory)	60 20 80 20 100	- - 40 - 50	200	150
			i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical + Internal Assessment (Practical/Clinical)	80 20 100	40 - 50		

6	Orthodontics	i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) v) Theory + Oral + Internal Assessment (Theory)	60	-	200	150
			20	-		
		i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	80	40		
			20	-		
		i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) v) Theory + Oral + Internal Assessment (Theory)	60	-	200	150
			20	-		
	Oral Medicine and Radiology	i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	80	40		
			20	-		
		i) Theory (Written) ii) Oral iii) Theory + Oral iv) Internal Assessment (Theory) v) Theory + Oral + Internal Assessment (Theory)	60	-	200	150
			20	-		
		i) Practical/Clinical ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	80	40		
			20	-		
			100	50		
			80	40		
			20	-		
			100	50		
Grand Total					1400	1050



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Appendix – D

**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK**

**INTERNAL ASSESSMENT MARKS FOR ....B.D.S. SUMMER/WINTER EXAMINATION, YEAR**

Subject: \_\_\_\_\_

College: \_\_\_\_\_

Subhead – Theory / Practical

Sr. No.	Enrollment No	Roll No.	Name of the Student	Internal Assessment Test				Aggregate Total Out of 20	Net total (after rounding the fraction, if any) Marks obtained out of 20	In Words (Out of Twenty)	Signature of Student
				First Max 5	Second Max 5	Third Max 5	Fourth Max 5				

Certificate that the marks entered in above proforma are as obtained by the candidates. The department will produce the necessary documents for verification University Authority if required.

Date : \_\_\_\_\_

\_\_\_\_\_  
Signature of Subject Teacher)

\_\_\_\_\_  
(Signature of Head of the Department)



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