

# MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

## **SYLLABUS : THIRD B.D.S.**

Candidate will be examined in the following subjects:

- 1) General Medicine**
- 2) General Surgery**
- 3) Oral Pathology & Microbiology.**
- 4) Preventive and Community Dentistry.**

### Subject 1 : **GENERAL MEDICINE**

Lectures - 40 Hours.

Clinicals - 90 Hours.

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Total Duration 130 Hours.

#### **LECTURES :**

1. Aims of Medicine.
2. Definition of diagnosis, prognosis and treatment.
3. History taking and physical examination of a medical case.
4. Medical emergencies in dental practice, Anaphylactic shock, Hemophilia, Syncope etc. Cardiac arrest etc.
5. G.I. Disorders:  
Stomatitis, Glossitis, Gastritis, Diarrhoea, Amoebiasis, Ascites, Malabsorption syndrome, Peptic ulcer.
6. Liver.- Jaundice, Viral hepatitis, Cirrhosis of liver.  
Tender hepatomegaly.
7. Cardiovascular System:  
Congenital heart diseases, classification, Rheumatic heart diseases, subacute bacterial endocarditis. Congestive heart failures, left ventricular failure. Hypertension. Coronary artery disease.
8. Respiratory System:  
Pneumonia, Bronchitis, Emphysema, Lung Abscess.  
Eosinophilia, Pulmonary Embolism, Pulmonary Tuberculosis, Respiratory failure, Chronic obstructive Pulmonary diseases.

9. Renal Diseases :  
Nephritis, Nephrotic Syndrome.
10. Hematology:  
Anaemia, Coagulation defects, Bleeding disorders.  
Agranulocytosis, Leukaemia Oral manifestations  
of Hematological disorders, Lymphadenopathy  
and splenomegaly.
11. Central Nervous System:  
Meningitis, Facial Palsy, Facial pain, Epilepsy, Headache,  
Vertigo, Nervousness, Anxieties & Depression.
12. Nutritional and Metabolic disorders :  
Balanced diet, Normal daily requirements.  
Protein Calorie Malnutrition.  
Avitaminosis., Diabetes Mellitus.  
Calcium homeostasis, Flouride & Phosphorous metabolism.
13. Endocrine Disorders:  
Thyroid-Hypo and hyper, Pituitary - Hypo and hyper,  
Parathyroid - Hypo & Hyper, Adrenal - Hypo & Hyper.
14. Infection:  
Enteric fever, Mumps, Leprosy, Diphtheria, Syphilis,  
Gonorrhoea, Herpes, AIDS., Hepatitis, Malaria fever.
15. Miscellaneous : Allergy, Anaphylaxis, Drug reactions, Drug  
interactions, Poisoning.  
Evaluation of a case for general anaesthesia. Case history  
and Examination of patient. Diagnosis, Prognosis & Treatment  
planning.
16. Recent advances in general medicine.

**I. Theory ..... 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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60 Marks.

**II. CLINICALS**

A) Practical

Maximum . ..... 80 Marks.

i] Long Case ..... 35 Marks.

ii] Short Case ..... 20 Marks.

iii] X-Rays & Drugs ..... 20 Marks.

iv] Journal ..... 05 Marks.

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**Total 80 Marks.**

B) i] Oral (Viva Voce) ... 20 Marks.

A+B = 100 Marks.

### III. Internal Assessment (Theory 20 + Practical 20 ) .....40 marks

#### Subject 2 :GENERAL SURGERY

Lectures - 40 Hours.

Clinicals - 90 Hours.

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Total Duration 130 Hours.

#### LECTURES :

1. Introduction to surgery, especially related to Oro-dental surgery, classification of diseases.
2. Inflammation of soft-tissue & hard tissue-Causes, Varieties, sequelae and treatment.
3. Infection-Acute and Chronic, Abscess, Carbuncles, Sinus, Fistula, Ulceration, Gangrene, Cellulitis, Erysipelas, Septicaemia, Pyaemia, Toxaemia, Cancrum Oris, Tuberculosis, Syphilis, Gonorrhoea, Actinomycosis, Anthrax, Tetanus.
4. Wounds-complications, Treatment, Repairs, Suturing technique, Asepsis and antiseptic measures and procedure with particular reference to the Oral cavity. Haemorrhage and its treatment, Haemophilia, Syncope, Shock, Collapse, Head injury and its management.
5. Cysts and new growths- Their general consideration with special reference to those occurring in the Oral Cavity.
6. Diseases of the Lymphatic glands, especially of the neck.
7. Outline of diseases of the mouth, lips, tongue, palate, tonsils and salivary glands.
8. Infections and diseases of the Larynx, Tracheostomy.
9. Nervous system, Facial palsy, Trigeminal Neuralgia.
10. Principles of surgical treatment, diathermy and radition Therapy.
11. Fracture-General principles of treatment, and healing.
12. Cleft lip and cleft palate.
13. Thyroid and parathyroid.
14. Swellings of jaws.

15. Burns:-outline & treatment in brief.
16. Diseases of arteries & Veins.
17. Blood grouping & transfusion.
18. Methods of administration of general anaesthesia, Precautions, Management, Resuscitation in Dentistry.
19. Operation theatre techniques.
20. Recent advances in general surgery.

**EAMINATION PATTERN :**

I. Theory -----max 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.

**II. CLINICALS**

A) Clinical/Practical

i] Long Case ..... 35 Marks.

ii] Short Case ..... 20 Marks.

iii] X-Rays, Instruments ... 20 Marks.

iv] Journal ..... 05 Marks.

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Total ----- 80 Marks.

B) i] Oral (Viva Voce) ... 20 Marks.

A+B = 100 Marks

13. **Internal Assessment (Theory 20 +Practical 20) ....40 Marks.**

**Subject 3 : ORAL PATHOLOGY AND MICROBIOLOGY.**

Lectures .. 50 Hours.

Practical .... 90 Hours.

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Total Duration . .140 Hours.

**LECTURES :**

1. Aims & Objectives.
2. Developmental disturbances of dental, oral and paraoral structures, including hereditary disorders.
3. Dental caries.
4. Pulpal and periapical pathosis and their sequelae.
5. Environmental lesions of the oral and para-oral structures.
6. Defense mechanism of oral tissues and healing following injuries.
7. Diseases of periodontal ligament, gingiva and cementum.
8. Effects of nutritional disturbances and normal disorders on the oral and para-oral structures.
9. Infections & Diseases of oral mucosa.
10. Bone disorders affecting jaws.
11. Traumatic injuries of teeth, Gums & soft tissues, their sequelae and healing.
12. Cysts of oral cavity.
13. Pre-cancerous lesions-etiology and pathology.
14. Neoplasms of Oral Cavity.
15. Diseases of salivary and lymph glands.
16. Diseases of Temporomandibular joint.
17. Diseases of nerves, skin, blood and their implications to oral tissues.
18. Concept of immunology as related to oral lesions. HIV Infection, Hepatitis.
19. Effects of radiation on oral and para-oral tissues.
20. Outline of forensic odontology.
21. Oral Microbiology - Oral Flora, Diagnostic procedures in oral microbiology & Histopathology.
22. Recent advances.

**PRACTICAL:**

1. Identifications of hard and soft tissue specimens.
2. Identification of Histopathological & Microbiological slides.
3. Biopsy and exfoliative cytology techniques.

**I. Theory -----Max 60 Marks.**

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.

**II. PRACTICAL**

A)	i] Spotting of 8 slides	.... 40 Marks.
	ii] Spotting of 6 specimens	... 30 Marks.
	iii] Journals	... 10 Marks,
		<hr/>
	Total -----	80 Marks.
B)	i] <u>Oral (Viva Voce)</u> ...	20 Marks.
	A+B =	100 Marks.

**III. Internal Assessment (Theory 20+Practical 20) ----- 40 Marks.**

**Subject 4 : Preventive and Community Dentistry.**

Lectures - 30 Hours. (Spread over Two Terms)

Field Programs - 100 Hours.

Total Duration - 130 Hours.

**LECTURES :**

1. History of Dentistry.
2. Biostatistics:  
Introduction and General Principles of Biostatistics, Statistical procedures.
3. Psychology:  
Introduction, Psychological development from birth to adolescence, Management of Child in the dental office, parent counseling in respect of dental health and Hygiene of the child.

4. **Public Health:**  
Concept and philosophy of Health administration in India  
National health programmes, General Epidemiology, Health Education, Environmental Health (Norms for portability, purification) Fluorine-contents of water and implications of its deviation. Water treatment to ensure its proper concentration.
5. **Preventive Dentistry:**  
Prevention, levels of prevention, various measures in the prevention of Dental and Oral diseases at individual and community level. Nutrition and Dental Health.
6. **Public Health Dentistry:**  
Introduction, definition, objectives, function of public health dentist, procedural steps in dental public health, indices for dental diseases, surveying and evaluation.  
epidemiology of dental caries, periodontal diseases, oral cancer, Utilization of dental manpower, payment for dental care, public dental Health programme. School dental health programme. Dental health services at state and center.  
Private practice administration, ethics, Jurisprudence, Dental Council and Dental Association. Parameters used in clinical and population studies for dental Health.  
Dentist and consumer protection Act.
7. **Social Sciences:**  
As applied to health, social structure concepts, groups, social institutions, urban and rural societies, their concepts of health. Application of sociology in health programs, social environment. Cultural Anthropology, objective, different aspects of Folk medicine and popular medicine, Cultural pattern and complexes, taboos as related to health.

8. Epidemiology of Dental & Oral diseases.



Defination of indices , Classification of indices , commonly used indices for dental caries & periodontal diseases.

9. Recent advances and other oral diseases.

**FIELD PROGRAMME :**

1. In rural areas to conduct survey of Dental diseases. Provide Dental Health Education, emergency treatment.
2. School-Health programme, Dental Care for school children and preventive programme. Topical fluoride application and oral hygiene demonstrations.

**EXAMINATION PATTERN :**

- I.** Theory (written) paper shall be of three hours duration max 60 Marks.

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

- II.** ORAL (VIVA VOCE) ..... 20 Marks.

- III.** Int. Assessment in Theory 20 Marks.

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Total 100 marks.

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## APPENDIX - C

### SCHEDULE FOR INTERNAL ASSESSMENT MARKS

To assess the overall progress of the students by evaluating the professional skills he 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.

1) Maximum marks allotted for internal assessment for each subject head i.e. Theory and Practical / Clinical will be 20 marks each.

2.A) 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

	<u>Theory</u>	<u>Practical / Clinical</u>
<u>First Term</u> - <u>First Internal</u> Assessment Test	5 Marks	5 Marks
<u>Second Internal</u> Assessment Test	5 Marks	5 Marks
<u>Second Term</u> - <u>Third Internal</u> Assessment Test	5 Marks	5 Marks
<u>Fourth Internal</u> Assessment Test	5 Marks	5 Marks
Total :	20 Marks	20 Marks

a) First Internal Assessment Test should be conducted for the syllabus completed from the start of the term till the commencement of this examination. ( Unit Test )

b) Second Internal Assessment Test should include entire syllabus completed in first term ( Terminal Examination )

c) Third Internal Assessment Test should include the topics covered only in the second term till the commencement of this examination. (Unit Test )

d) Fourth Internal Assessment Test should include entire syllabus prescribed by the University (Preliminary Examination).

2.B) For Final B.D.S. Subjects :- Four College test to be conducted theory as per above pattern in final year only. However, for Clinical Practical test -- 2 test to be conducted in third year teaching during clinical posting and 2 test to be conducted in IV year clinical posting.

3) The pattern of Internal Assessment Examination should be as under :

a) Theory . . . 50 Marks

b) Practical . . . 50 Marks

c) Exception : For community Dentistry the written Examination will be of 40 Marks & Oral will be of 10 Marks.

Marks obtained by the candidate out of 50 to be divided by 10 and to be entered in Performa even in fraction like 35/50 will be shown as 3.5 out of 5 marks.

4) The marks obtained by the candidate in all four examinations, to be amalgamated even with fractions. The fraction, if any, is now to be converted into nearest higher round figure.

5) All the records of these examination P/T will have to be maintained till the start of next University Examination by the Heads of Departments and will have to be produced to the University authority if required for verification.

6) a) The marks obtained by the students for First, Second internal assessment tests should be submitted in the prescribed proforma ( Appendix - D ) to the controller of examination immediately after 15 days of completion of second Internal Assessment Examination.

b) The marks of all four internal assessment tests shall be submitted to the controller of examination in the proforma as shown in Appendix - D , through the Dean / Principal of the college before 20 days of the commencement of the University Theory Examination by Hand delivery or Register post. The Mark sheet should be signed by the candidates, teacher in charge/HOD & Dean/Principal.

- 7) In case the candidate fails in University Examination, he should be assessed afresh for internal assessment marks.
- 8) For repeater and detainee students, only two examinations in that term will be conducted. Each test will be of 10 marks each. Thus college authority should submit marks out of 20 by applying the same schedule. The best out of two of internal assessment marks (Previous Assessment/New Assessment) to be submitted to the University for the computation of marks
- 9) In case candidate remains absent on valid ground where his presence elsewhere is justified or when he is unable to attend the Examination on health ground and when he has informed the HOD/Dean about the same before or during the Examination Schedule. Candidate should compensate for this absence by attending fifth (Extra) Internal Assessment Test. Those students who want to improve their performance, they may attend this test.

## **MAHARASHTRA UNIVERSITY OF HEALTH SCIENCE, NASHIK**

### Scheme of Practical & /or Clinical examination

University Practical/Clinical Examination ... 80 Marks

The Practical/Clinical examination shall be conducted at the centres where adequate facilities are available to conduct such examinations and the centre/college is approved/recognised by Dental Council of India.

Not more than 30 students to be examined per day. The marks should be submitted in the proforma (Appendix - E & F) supplied by the University Authority. This proforma should be signed by the examiners. Over writing or scratching will not be permitted. Any corrections made, must have the counter-signature of external examiners. The sealed envelop containing this proforma shall be submitted on the same day to the Dean for onward transmission to the Controller of examinations, Maharashtra University of Health Sciences, Nashik. No examiner or any other person connected with the work of

practical examination is permitted to carry any paper or violate the rules of examination. The person found guilty will be debarred from such Confidential work for a minimum period of 5 Consecutive University examinations or the actions as suggested by the relevant Committee to investigate such matters.

**APPENDIX-E**

**FORMAT OF THE PRACTICAL / CLINICAL EXAMINATION MARKS**

**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK**

Chart showing marks obtained by the candidates in practical / clinical examination, to be submitted by the examiner in sealed cover through the Dean of the college to the Controller of Examination, MUHS, Nashik

Name of Examination : Third B.D.S. Summer / Winter 200\_\_

Centre : \_\_\_\_\_

**1) SUBJECT : GENRAL MEDICINE** Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Long Case (35Marks)	Short Case (20 Marks)	X-rays & Drugs (20 Marks)	Journal (5 Marks)	Total (80Marks)
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**2) SUBJECT : GENRAL SURGERY** Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Long Case (35Marks)	Short Case (20 Marks)	Xrays, Instrumentation (20 Marks)	Journal (5 Marks)	Total (80Marks)
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**3) SUBJECT : PATHOLOGY & MICROBIOLOGY** Max. Marks:- 80

NOTE :- SCRATCHING OR OVERWRITING IN MARKS ARE NOT ALLOWED

Roll No.	Spotting of 8 Slides (8 X 5 = 40 Marks)	Spotting of 6 Specimens (6 X 5 = 30 Marks)	Journal (10 Marks)	Total (80Marks)
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**External Examiners :**

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

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

**Internal Examiners :**

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

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

(Common to All)

**APPENDIX - F**

**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK**

**Third 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: \_\_\_\_\_

**APPENDIX B**  
**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK**  
**Scheme of Examination for Third B.D.S Examination**

Sr. No.	Subject	Subheads	Maximum marks allotted	Minimum marks required to pass in each sub head	Maximum marks allotted	Minimum marks required for awarding distinction
1	General Medicine	i) Theory (Written)	60	-	200	150
		ii) Oral	20	-		
		iii) Theory + Oral	80	40		
		iv) Internal Assessment (Theory)	20	-		
		iv) Theory + Oral + Internal Assessment (Theory)	100	50		
		i) Practical/Clinical	80	40		
		ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	20	-		
			100	50		
2	General Surgery	i) Theory (Written)	60	-	200	150
		ii) Oral	20	-		
		iii) Theory + Oral	80	40		
		iv) Internal Assessment (Theory)	20	-		
		iv) Theory + Oral + Internal Assessment (Theory)	100	50		
		i) Practical/Clinical	80	40		
		ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	20	-		
			100	50		

3	Oral Pathology & Microbiology	i) Theory (Written)	60	-	200	150
		ii) Oral	20	-		
		iii) Theory + Oral	80	40		
		iv) Internal Assessment (Theory)	20	-		
		iv) Theory + Oral + Internal Assessment (Theory)	100	50		
		i) Practical/Clinical	80	40		
		ii) IA Practical/Clinical iii) Practical/Clinical +Internal Assessment (Practical/Clinical)	20	-		
			100	50		
4	Preventive and Community Dentistry	i) Theory (Written)	60	-	100	75
		ii) Oral	20	-		
		iii) Theory + Oral	80	40		
		iv) Internal Assessment (Theory)	20	-		
		iv) Theory + Oral + Internal Assessment (Theory)	100	50		

Grand Total

700

525



**Appendix – D**

**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK**

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

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

Subhead – Theory / Practical

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

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)