Vocational Curriculum – 2012
(With effect from the academic year 2012-2013)

Curriculum of Intermediate Vocational Course
In
DENTAL HYGIENIST

State Institute of Vocational Education
O/o the Commissioner of Intermediate Education,
Andhra Pradesh, Hyderabad

&

Board of Intermediate Education,
Andhra Pradesh, Hyderabad
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IV. Job Opportunities
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   b. Practicals
   c. On the Job Training
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XI. Reference Books
XII. Model Question papers.
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INTRODUCTION

The Dental Hygienist course is started in the year 1980 at Govt City Jr. College Hyderabad with GDC & H (Govt Dental College & Hospital) as the coordinating college.

The Dental College & Hospital are recognized by the DCI (Dental Council of India) & It has the following requirements according to DCI norms.

1. Nine Specialty Departments
2. Emergency clinic
3. Well Established Library
4. Well furnished lecture halls
5. Sufficient equipment & infrastructure
6. Experienced and qualified teaching staff
7. Clinical & pre-clinical Labs
8. Sufficient number of patients

Because of the availability of above requirements D.T & D.H Courses are run at Govt Dental College & Hospital.

The pass outs are recognized by The Dental Council of India. Without the recognition from DCI the candidate is not eligible to work.

Dental Hygienist is a well trained auxiliary member of the dental health team, who is trained to assist a Dental Surgeon in various dental procedures as well as to promote dental health care in the society.

The profession cannot fulfill its responsibilities without the help of the dental health team, especially a Dental Hygienist.
II. Objectives of the Course

The objective of this course is to help and prepare students for future role in health Care by introducing a flexible approach towards patient care.

The aim of this course is to aid in educating and training the Dental Hygienist to work under the supervision of a qualified dental surgeon in order to ease the work and make it more rewarding and to prepare the hygienist to assume his/her position in the dental health team and make it possible for dental profession to provide the necessary health care for the people of our nation.

A Dental Hygienist must be trained according to the changing techniques he/she should have thorough knowledge about the latest treatment procedures & sophisticated equipments.

III. SKILLS TO BE PROVIDED

A Dental Hygienist is an auxiliary member of the "Dental health team". Who after attaining the qualification register his or name with the Dental Council of India and becomes eligible under the supervision of a qualified dentist and to perform professional patient services.

These Clinical services include:

1. Scaling
2. Polishing of teeth
3. Application of fluorides
4. Taking medical and Dental histories
5. Processing and developing dental radiographs.
6. Performing oral diagnostic tests.
7. Interpretation of the case to the dentist
8. Mixing of filling materials
9. Mixing of impression materials
10. Preparing models
12. Assisting the dental Surgeon.
14. Provide oral health care instructions to the patients.
15. Assisting the dental Surgeon during implant placement.
IV. JOB OPPORTUNITIES

WAGE EMPLOYMENT:

As per the G.O.M.S.No-428 (Edn.)Dt.23-9-1985. The pass outs in D.H. Course are eligible to seek employment as

1. Dental Hygienist in Medical and Health Department.
2. Government Dental Colleges and Hospitals.
3. They can work as Dental Hygienist in other Countries.
4. They can work as Dental Assistants in corporate Dental Hospitals and in private dental clinics.
5. A Dental Hygienist is an important team member his/her services are required in every Department of the Dental Hospital.

SELF EMPLOYMENT:

There are no chances of self employment for a Dental Hygienist. He cannot set up his own dental practice. She/He can work only under the supervision of a qualified Dental Surgeon.
# ANNUAL SCHEME OF INSTRUCTIONS AND EXAMINATION
## DENTAL HYGIENIST
### 1st year

<table>
<thead>
<tr>
<th>Part-A</th>
<th>Theory</th>
<th>Practicals</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Periods</td>
<td>Marks</td>
<td>Periods</td>
</tr>
<tr>
<td>1. English</td>
<td>150</td>
<td>50</td>
<td>0</td>
</tr>
<tr>
<td>2. General Foundation course</td>
<td>150</td>
<td>50</td>
<td>0</td>
</tr>
</tbody>
</table>

**Part-B**

| 3. Paper-I | 135 | 50 | 135 | 50 | 270 | 100 |
| Dental Anatomy Physiology & Histology |

| 4. Paper-II | 135 | 50 | 135 | 50 | 270 | 100 |
| Oral Pathology, Bacteriology & Dental Pharmacology |

| 5. Paper-III | 135 | 50 | 135 | 50 | 270 | 100 |
| Dental Radiology, Food & Nutrition |

**Total**

|  | 1110 | 400 |

### II YEAR

<table>
<thead>
<tr>
<th>Part-A</th>
<th>Theory</th>
<th>Practicals</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Periods</td>
<td>Marks</td>
<td>Periods</td>
</tr>
<tr>
<td>1. English</td>
<td>150</td>
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</tr>
<tr>
<td>2. General Foundation course</td>
<td>150</td>
<td>50</td>
<td>0</td>
</tr>
</tbody>
</table>

**Part-B**

| 3. Paper-I | 110 | 50 | 115 | 50 | 225 | 100 |
| Dental Hygiene & Oral Prophylaxis |

| 4. Paper-II | 110 | 50 | 115 | 50 | 225 | 100 |
| Public Health & Dental Public Health |

| 5. Paper-III | 110 | 50 | 115 | 50 | 225 | 100 |
| Chair side Assistance, Dental Ethics, Jurisprudence & Dental materials |

**Total**

|  | 975 | 400 |

**On the Job Training**

|  | 363 | 200 |

**I+II+III**

|  | 1000 |

**Note:** The theory, practical classes and the On the job training shall be conducted at Dental college itself. The students shall attend in the morning from 8.30 a.m to 12.30 p.m during Out patient time at Dental college itself. Again by taking half an hour lunch break they shall come to the concerned junior college for remaining classes from 1.00 p.m to 3.00 p.m. Hence, there will not be separate O.J.T. for this course.
EVALUATION OF ON THE JOB TRAINING:

The “On the Job Training” shall carry 100 marks for each year and pass marks is 50. During on the job training the candidate shall put in a minimum of 90 % of attendance.

The evaluation shall be done in the last week of January.

Marks allotted for evaluation:

<table>
<thead>
<tr>
<th>S.No</th>
<th>Name of the activity</th>
<th>Max. Marks allotted for each activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Attendance and punctuality</td>
<td>30</td>
</tr>
<tr>
<td>2</td>
<td>Familiarity with technical terms</td>
<td>05</td>
</tr>
<tr>
<td>3</td>
<td>Familiarity with tools and material</td>
<td>05</td>
</tr>
<tr>
<td>4</td>
<td>Manual skills</td>
<td>05</td>
</tr>
<tr>
<td>5</td>
<td>Application of knowledge</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Problem solving skills</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td>Comprehension and observation</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>Human relations</td>
<td>05</td>
</tr>
<tr>
<td>9</td>
<td>Ability to communicate</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>Maintenance of dairy</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

NOTE: The On the Job Training mentioned is tentative. The spirit of On the Job training is to be maintained. The colleges are at liberty to conduct on the job training according to their local feasibility of institutions & industries. They may conduct the entire on the job training periods of (363) I year and (450) II year either by conducting classes in morning session and send the students for OJT in afternoon session or two days in week or weekly or monthly or by any mode which is feasible for both the college and the institution. However, the total assigned periods for on the job training should be completed. The institutions are at liberty to conduct On the Job training during summer also, however there will not be any financial commitment to the department.
## SCHEME OF INSTRUCTION PER WEEK

<table>
<thead>
<tr>
<th>Part-A</th>
<th>Theory</th>
<th>Practicals</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. English</td>
<td>4</td>
<td>-</td>
<td>4</td>
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<tr>
<td>2. General Foundation Course</td>
<td>4</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td><strong>Part-B</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Paper –I</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Paper-II</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Paper-III</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
<td><strong>12</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>


# SYLLABUS

### DENTAL HYGIENIST COURSE

#### DENTAL ANATOMY, PHYSIOLOGY & HISTOLOGY

**1ST YEAR**

**PART-B (VOCATIONAL)**

**PAPER-1 (THEORY)**

**Theory**: 135hrs  
**Marks**: 50

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
</table>
| I     | Terminology in Dental and General Anatomy  
Structure & functions of Oral Mucosa  
Bones of the Cranium & Face  
Embriology – Development of Maxilla, Mandible & tooth | 20            | 10                  | 2                      | 1                    |
| II    | Types of Muscles  
Structure & Functions of Muscles of Mastication, muscles of Facial Expression  
Blood Vessels- Structure functions of Blood supply to face jaws & teeth  
Blood grouping, mechanism of clotting  
Structure & functions of Nerves  
Cranial Nerves- description of V & VII  
Cranial nerve  
Salivary glands, composition and functions of saliva | 25            | 16                  | 2                      | 2                    |
| III   | Temporo Mandibular joint – Basic anatomy  
physiology functions & movements of TMJ  
Structure of tongue taste buds  
Nomenclature of tooth  
Parts of tooth, morphology, eruption shedding & occlusion of teeth | 25            | 16                  | 2                      | 2                    |
| IV    | Structure of enamel, Dentine, pulp cementum & periodontal apparatus  
Functions of perodontium- gingiva, cementum periodontal uement, alveolar process  
Process of Mastication, deglutition & phonation | 20            | 10                  | 2                      | 1                    |
| V     | Structure of human cell  
Histology of enamel, Dentine pulp, Cementum, gingiva, Periodontal membrane alveolar bone, nasmyths membrane, Structure of RBC, W.B.C & Platelets | 25            | 16                  | 2                      | 2                    |
DENTAL HYGIENIST COURSE

DENTAL ANATOMY, PHYSIOLOGY & HISTOLOGY
1ST YEAR
PART-B (VOCATIONAL)
PAPER-1(PRACTICALS)

Theory : 135hrs
Marks: 50

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Anatomy Showing bones of the skull – specimens</td>
<td>30</td>
<td>30</td>
<td>3</td>
<td>2</td>
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<tr>
<td></td>
<td>Oral mucosa – slides, spotters.</td>
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<tr>
<td></td>
<td>Development of tooth – Models &amp; Charts.</td>
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<tr>
<td></td>
<td>Development of Maxilla &amp; Mandible – Models &amp; Charts.</td>
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<tr>
<td>2.</td>
<td>Muscles of mastication – charts &amp; Models.</td>
<td>30</td>
<td>20</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Muscles of facial expression – charts &amp; Models.</td>
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<tr>
<td>3.</td>
<td>Cranial nerves</td>
<td>30</td>
<td>20</td>
<td>2</td>
<td>1</td>
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<tr>
<td></td>
<td>Trigeminal nerve</td>
<td></td>
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<tr>
<td></td>
<td>Facial nerve</td>
<td></td>
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<tr>
<td></td>
<td>Salivary glands</td>
<td></td>
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<tr>
<td></td>
<td>TMJ Charts &amp; models</td>
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<tr>
<td>4.</td>
<td>Tongue-slides, Record, charts</td>
<td>30</td>
<td>30</td>
<td>3</td>
<td>2</td>
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<tr>
<td></td>
<td>Morphology of tooth-collection of natural teeth &amp; identification</td>
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<td></td>
<td>Mounting on plaster models for studying</td>
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<tr>
<td>5.</td>
<td>Recording of blood pressure</td>
<td>15</td>
<td>10</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Section of tooth</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Microscopic study of enamel,denting, pulp &amp; alveolar bone</td>
<td></td>
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</tr>
</tbody>
</table>

REFERENCE BOOKS:
1. Head and neck anatomy by *chaurasia*
2. Head and neck anatomy by *A.K.DAS*
3. General anatomy by *Sitchers*
4. Grays anatomy
5. Human physiology by *Chattergy*
6. Human physiology by *A.K.Jain*
7. Dental anatomy by *wheelers*
## DENTAL HYGIENIST COURSE

### DENTAL HYGIENIST

**ORAL PATHOLOGY, BACTERIOLOGY & DENTAL PHARMACOLOGY**

**1ST YEAR**

**PART-B (VOCATIONAL)**

**PAPER-II (THEORY)**

Theory: 135hrs  Marks: 50

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>General principals of pathology&lt;br&gt;Inflammation, repair, de generation &amp; Necrosis&lt;br&gt;Immunity&lt;br&gt;White lesions of oral cavity</td>
<td>20</td>
<td>08</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>II</td>
<td>Pre-cancerous lesions &amp; conditions&lt;br&gt;Neoplasm - differences between malignant &amp; Benign lesions&lt;br&gt;Systemic diseases with oral manifestations&lt;br&gt;Nutritional, vitamin, &amp; iron deficiency&lt;br&gt;Infections of oral Cavity- ANUG, Herpetic stomatitis, candidiasis, HIV, Hepatitis</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>III</td>
<td>Sterilization &amp; Infection control&lt;br&gt;Bacteria - types&lt;br&gt;Dental anomalies&lt;br&gt;Attrition, abrasion &amp; erosion&lt;br&gt;Normal microbial flora of oral cavity&lt;br&gt;Dental caries - etiology, pathogenesis</td>
<td>30</td>
<td>18</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>IV</td>
<td><strong>Dental Pharmacology:</strong>&lt;br&gt;Nomenclature, sources of various drugs&lt;br&gt;routes of Drug administration&lt;br&gt;Pharmacological action &amp; therapeutic uses of drugs commonly used in dentistry&lt;br&gt;Antibiotics&lt;br&gt;Chemotherapeutic agents&lt;br&gt;Analgesics &amp; anti inflammatory drugs</td>
<td>25</td>
<td>16</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>V</td>
<td>Sedatives&lt;br&gt;Local anesthetics&lt;br&gt;Haemostatics&lt;br&gt;Astringents</td>
<td>20</td>
<td>08</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>VI</td>
<td>Antiseptics&lt;br&gt;Mouth washes, Gum paints, disclosing agents&lt;br&gt;Obtundents, dentifrices.</td>
<td>20</td>
<td>08</td>
<td>1</td>
<td>1</td>
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</table>
**DENTAL HYGIENIST COURSE**

**DENTAL HYGIENIST**

**ORAL PATHOLOGY, BACTERIOLOGY & DENTAL PHARMACOLOGY**  
1ST YEAR  
PART-B (VOCATIONAL)  
PAPER-II (PRACTICAL)

**PRACTICALS: 135**  
Marks: 50

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Study of Pathological &amp; Bacteriological slides of oral conditions</td>
<td>20</td>
<td>20</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>II</td>
<td>Study of various drugs Identification of drugs</td>
<td>20</td>
<td>20</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>III</td>
<td>Clinical observation of oral manifestations of systemic diseases</td>
<td>30</td>
<td>30</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>IV</td>
<td>Simple urine tests- Benedict’s test</td>
<td>20</td>
<td>10</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>V</td>
<td>Blood test- Bleeding time , clotting time, hb%</td>
<td>25</td>
<td>20</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**REFERENCE BOOKS:**  
1. Dental Pharmacology by *Tripathi.*  
2. Dental Pharmacology by *Sathoskar.*  
3. Oral pathology by *Shafer.*  
4. Oral pathology by *Allen.*  
5. Oral pathology by *Somasunderan.*
### SUBJECT: DENTAL RADIOLOGY, FOOD & NUTRITION

**1ST YEAR**

**PART-B (VOCATIONAL)**

**PAPER-III (THEORY)**

Theory: 135hrs  \[\text{Marks: 50}\]

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
</table>
| I | Properties & production of x-rays  
Radiation Physics  
X-ray film composition  
classification of x-ray film | 15 | 08 | 1 | 1 |
| II | Technique of intra oral x-rays  
Composition of developer and fixer  
Processing & mounting of dental radio graphs  
Common errors in x-ray processing | 15 | 08 | 1 | 1 |
| III | Hazards of radiation  
Protection from hazards  
Protection of the patient  
Protection of the operator | 20 | 10 | 2 | 1 |
| IV | Normal radiographic anatomy  
Study of normal radio graph | 10 | 08 | 1 | 1 |
| V | Food & Nutrition:  
Basic food chemistry in relation to general & oral health  
Carbohydrates: their effects on general & oral health  
Proteins: their effects on general & oral health  
Fats: their effects on general & oral health  
Vitamins: their effects on general & oral health  
Minerals: their effects on general & oral health | 20 | 10 | 2 | 1 |
| VI | Etiology of dental caries, rampant caries, prevention of dental caries role of fluorides in prevention of dental caries  
Fluorosis | 20 | 08 | 1 | 1 |
| VII | Dietary requirement- in maxilla facial injury  
Dietary requirement-during pregnancy, during lactation, during development of jaw bones & in geriatric patients | 20 | 08 | 1 | 1 |
| VIII | Dietary management of new denture wearer, patients with cleft palate & after cleft palate repair  
Dietary management of diabetic patients, individual dietary requirement & diet counseling  
Effects of mal nutrition on general & oral tissues | 15 | 08 | 1 | 1 |
### DENTAL RADIOLOGY, FOOD & NUTRITION

1\textsuperscript{ST} YEAR

PART-B (VOCATIONAL)

PAPER-III (PRACTICALS)

PRACTICALS: 135                                               Marks: 50

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
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<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Parts of x-ray machine</td>
<td>10</td>
<td>6</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
| II    | Technique of intra oral x-ray(on patients)
       | Periapical, occlusal , bitewing. Orthopantamography, lateral cephalometry.
       | Processing & mounting of dental radiograph                                       | 65             | 30                  | 4                      | 2                   |
| III   | Study of defective radiograph                                                    | 10             | 6                   | -                      | -                   |
| IV    | Charts on Food & nutrition study on slides on dental caries                      | 20             | 15                  | 2                      | 1                   |
| V     | Preparation of diet charts
       | Collection of models about nutrition and healthy food                           | 30             | 15                  | 2                      | 1                   |

**REFERENCE BOOKS:**

3. Dental radiology by White & Pharoah.
4. Modern Dental assisting by Torrus & Ehrlich.
5. Periodontology by Carranza.
6. Dental pharmacology by Tripathi.
### Theory: 110hrs  
Marks: 50

<table>
<thead>
<tr>
<th>S.NO.</th>
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<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
</table>
| I     | Definition of Hygiene & Health  
Objectives of Dental Hygiene  
Classification of Gingival & Periodontal diseases. | 10           | 04                  | 2                      |                      |
| II    | Periodontal micro biology  
Plague- Definition, Composition, Classification & its role in periodontal diseases.  
Calculus- Definition composition, Classification mode of attachment, Mechanism of formation & its role in periodontal diseases. | 20           | 16                  | 2                      | 2                    |
| III   | Etiology of gingival &periodontal diseases  
Gingival enlargements.  
Acute infection of oral cavity-ANUG-Herpetic gingivostomatitis, Pericoronitis oral thrush  
Gingivities & periodontitis-clinical features  
Desquamative gingivitis | 30           | 16                  | 2                      | 2                    |
| IV    | AIDS & periodontal manifestations, special care  
Periodontal pockets, pathogenesis, classification, clinical sign& symptoms  
Periodontal Instrumentation  
Special emphasis on probes & scaling instruments.  
Instruments used for implant surgery | 25           | 16                  | 2                      | 2                    |
| V     | Plague control methods  
Brushing and inter dental cleaning  
Aggressive periodontitis(juvenile periodontities)  
Patients education &motivation  
Mouth washes & gum paints  
Desensitization of teeth | 25           | 16                  | 2                      | 2                    |
# DENTAL HYGIENIST

## DENTAL HYGIENE & ORAL PROPHYLAXIS

### 2ND YEAR PART-B (VOCATIONAL)

### PAPER-I (PRACTICALS)

Periods : 115

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the Unit</th>
<th>No. of periods</th>
<th>Weight age in marks</th>
<th>Short Answer Questions</th>
<th>Easy Type Question</th>
</tr>
</thead>
</table>
| 1.    | - Introduction of periodontal instruments & equipments  
       - Demonstration of oral prophylaxis on models.  
       - Demonstration of oral prophylaxis on patients. | 25 | | | |
| II.   | Oral prophylaxis on patients polishing of teeth fluoride application | 30 | | | |
| III.  | Tooth brushing & Inter Dental Clearing other plague control methods sharpening of hand instruments. | 30 | | | |
| IV.   | Ultra Sonic Scaling preparation of splints Patients education on plague control. | 30 | | | |

**Reference books:**

1. Text book of periodontics by Glickman
2. Essentials of periodontics of Powlack.
3. Periodontology by Shantipriya.
4. Modern Dental Assisting by Torrus & Ehrlich.
5. Periodontology by Dilip Nayak.
# PUBLIC HEALTH AND DENTAL PUBLIC HEALTH

**Theory:** 110hrs  
**Marks:** 50

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
</table>
| I     | Introduction to public Health:  
Introduction  
Definition of Health  
Definition of Health-WHO  
Epidemiological triad  
Iceberg of disease  
Definition of Primary Health care  
Elements/Components of Primary Health care  
Principals of Primary Health care  
Public Health care in India | 15            | 02                |                        | 1                    |
| II    | Public Health Dentistry:  
Difference between Public Health dentist and General Dentist  
Private practice and public health Dentistry  
Definition of Prevalence, point prevalence  
Definition of incidence  
Pandemic  
Epidemic  
Endemic  
Uses of Epidemiology | 10            | 08                | 1                     | 1                   |
| III   | Epidemiology, ethology and prevention of dental caries  
Prevention of periodontal diseases and prevention of oral cancers | 5             | 02                | 1                     |                    |
| IV    | Oral Health Education and Promotion  
Principals of Health Education  
Contents of Health Education  
Health Education & Propaganda  
Components of communication  
Types of communication | 10            | 08                | 1                     | 1                   |
| V     | School Dental Health Programme  
Definition  
Aspects of Health Services  
Objectives  
Ideal requirements  
Advantages  
Elements/Components of School Dental Health Program me | 10            | 08                | 1                     | 1                   |
<table>
<thead>
<tr>
<th>S.NO.</th>
<th>Name of the unit</th>
<th>No.of periods</th>
<th>Weight age in marks</th>
<th>Short answer questions</th>
<th>Essay type questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>VI</td>
<td><strong>Fluorides in preventive dentistry.</strong>&lt;br&gt;Fluoride delivery methods&lt;br&gt;Unital fluorides, compounds used in preventive dentistry.&lt;br&gt;Water fluoridation&lt;br&gt;Salt fluoridation&lt;br&gt;Milk fluoridation&lt;br&gt;Fluoride tablets/drops/lozenges&lt;br&gt;Fluoride toxicity.</td>
<td>15</td>
<td>08</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>VII</td>
<td><strong>Indices in dental epidemiology</strong>&lt;br&gt;Introduction&lt;br&gt;Definitions&lt;br&gt;Ideal requisites of an index&lt;br&gt;Criteria for selecting an index&lt;br&gt;Classification of indices&lt;br&gt;Uses of index&lt;br&gt;Indices used for assessing oral hygiene and plaque.&lt;br&gt;Oral Hygiene Index (OHI)&lt;br&gt;Simplified Oral Hygiene Index (OHI-S)&lt;br&gt;Indices used for assessing gingival and periodontal disease&lt;br&gt;Russels Periodontal Index&lt;br&gt;Community Periodontal Index of Treatment Needs (CPITN)&lt;br&gt;Community Periodontal Index and Loss of Attachment (CPILOA)&lt;br&gt;Indices used for assisting dental caries&lt;br&gt;DMFT Index&lt;br&gt;DMFS Index&lt;br&gt;Indices used for assessing fluorosis</td>
<td>20</td>
<td>08</td>
<td>1</td>
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<tr>
<td>VIII</td>
<td><strong>Dental Man Power</strong>&lt;br&gt;Introduction&lt;br&gt;Dentist&lt;br&gt;Dental Auxiliaries&lt;br&gt;Frontier Auxiliaries&lt;br&gt;New Auxiliary Types&lt;br&gt;Dental Manpower in India</td>
<td>10</td>
<td>08</td>
<td>1</td>
<td>1</td>
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<tr>
<td>IX</td>
<td><strong>Atraumatic Restorative Treatment (ART)</strong>&lt;br&gt;Introduction&lt;br&gt;Principles&lt;br&gt;Indications&lt;br&gt;Advantages&lt;br&gt;Procedure</td>
<td>10</td>
<td>08</td>
<td>1</td>
<td>1</td>
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<tr>
<td>1X</td>
<td><strong>Environment and Health</strong>&lt;br&gt;Water&lt;br&gt;Waste Management</td>
<td>5</td>
<td>02</td>
<td>1</td>
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<tr>
<td>S.NO.</td>
<td>Name of the unit</td>
<td>No.of periods</td>
<td>Weight age in marks</td>
<td>Short answer questions</td>
<td>Essay type questions</td>
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<tr>
<td>XI</td>
<td>Occupational Hazards and Infection control in Dentistry</td>
<td>5</td>
<td>02</td>
<td>1</td>
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</tr>
</tbody>
</table>
DENTAL HYGIENIST COURSE

DENTAL HYGIENIST

2ND YEAR - PAPER-II (PRACTICALS)

PUBLIC HEALTH AND DENTAL PUBLIC HEALTH

PRACTICALS: 115  
Marks: 50

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the unit</th>
<th>No of periods</th>
<th>Weightage of marks</th>
<th>Short Questions</th>
<th>Long Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preparation of models, charts on dental problems</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Health Education</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Making arrangements for dental camps</td>
<td>25</td>
<td>10</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Charting of indices</td>
<td>20</td>
<td>10</td>
<td>2</td>
<td>1</td>
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<tr>
<td>5</td>
<td>Demonstration of plaque control method using models, posters, and dramas showing the importance of oral hygiene and use of audio-visual aids.</td>
<td>30</td>
<td>20</td>
<td>3</td>
<td>2</td>
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</tbody>
</table>

Reference Books:

1. Community Dentistry By Soben Peter.
3. Modern Dental Assisting by Torrus and Ehrlich.

Equalency of Subject

<table>
<thead>
<tr>
<th>Old Syllabus</th>
<th>New Syllabus</th>
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</thead>
<tbody>
<tr>
<td>Dental Health Education</td>
<td>Public Health and Dental Public Health</td>
</tr>
</tbody>
</table>
# DENTAL HYGIENIST COURSE

## 2ND YEAR - PAPER-III (THEORY)

**CHAIR SIDE ASSISTANCE, DENTAL ETHICS, JURISPRUDENCE AND DENTAL MATERIALS**

Theory: **110**  
Marks: **50**

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Unit</th>
<th>No of Periods</th>
<th>Weight age Marks</th>
<th>Short Questions</th>
<th>Long Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reception of patients management of waiting patients. Chairside assisting in various dental surgical procedures. Chairside assisting in dental Implant placement.</td>
<td>15</td>
<td>08</td>
<td>1</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Preparation of patient for treatment sterilization of dental equipment and various instruments Maintenance and care for infection control in dental practice.</td>
<td>10</td>
<td>08</td>
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<tr>
<td>3</td>
<td>Care and Maintenance of dental instruments Requirements of an Ideal Dental Clinic Sharpening of instruments Charting of teeth Instructions to patients before and after surgery. Homecare procedures and follow up after receiving dental implants. Local Anesthetics used in dental practice. Through knowledge about components of dental chair and adjustments. Basic knowledge about management of medical emergencies.</td>
<td>30</td>
<td>20</td>
<td>4</td>
<td>2</td>
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<tr>
<td>4</td>
<td>Dental Ethics and Juries procedures Principles of ethics code of professional conduct Dentists Act 1948 Dental Auxiliaries Duties of a dental hygienist according to 1948</td>
<td>15</td>
<td>08</td>
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<td>No of Periods</td>
<td>Weightage Marks</td>
<td>Short Questions</td>
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<td>Dental Council of India.</td>
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<td>5</td>
<td>State Dental Council</td>
<td>15</td>
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<td>Indian Dental Association</td>
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<td>Aims and Objectives of WHO</td>
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<td>Health Organization of India</td>
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<td>6</td>
<td>Dental Materials</td>
<td>15</td>
<td>08</td>
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<tr>
<td></td>
<td>1. General Knowledge of various materials used in dental practice</td>
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<tr>
<td></td>
<td>Gypsum Products</td>
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<td>Waxes</td>
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<td></td>
<td>Impression materials</td>
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<td>7</td>
<td>Filling materials - Temporary and permanent</td>
<td>10</td>
<td>08</td>
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<tr>
<td></td>
<td>Mixing techniques of filling materials</td>
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<td>Their composition and uses.</td>
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<td></td>
<td>Mixing techniques of silver amalgam</td>
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<td>Impression materials</td>
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<td></td>
<td>Denture base materials</td>
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<td></td>
<td>Dental implant materials</td>
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</tbody>
</table>
DENTAL HYGIENIST COURSE

2ND YEAR - PAPER-III (PRACTICALS)

CHAIR SIDE ASSISTANCE, DENTAL ETHICS, JURISPRUDENCE AND
DENTAL MATERIALS

Practicals: 115  Marks: 50

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the Unit</th>
<th>No of Periods</th>
<th>Weight age Marks</th>
<th>Short Questions</th>
<th>Long Questions</th>
</tr>
</thead>
</table>
| 1.    | - Adjustment of Dental Chair.  
       - Mixing of filling materials.  
       - Placement of periodontal pack. | 30            | 20               |                 |               |
| 2.    | - Sterilization techniques – charts & Record work.  
       - Collection of Gypsum products & Identifying them.  
       - Collection of various waxes & identifying them. | 25            | 20               |                 |               |
| 3.    | - Collection of Impression materials & Identifying them.  
       - Layout of an ideal Dental clinic. | 20            | 15               |                 |               |
| 4.    | - Collection of Denture bas materials & Identifying them.  
       - Impression taking & preparation of models.  
       - Assisting in surgical procedures.  
       - Identification of various instruments. | 40            | 20               |                 |               |
|       | Total                                                                           | 115           |                  |                 |               |

Reference Book:

Dental materials by –Phillps.  
Dental materials by –Mannepalli.  
Dental materials by -Subba Rao.  
Modern Dental Assisting by -Torrus and Ehrlich .  
Oral surgery – Neelima Anil Malik.  
Oral surgery – Peterson.  
Local Anesthesia by –Monteim.  
Local Anesthesia by –Malamad.
ON THE JOB TRAINING SYLLABUS:

First Year:

1. To Assist The Dental Surgeons In The Following Development In Govt Dental College & Hospital Hyd.
   b. Department Of Conservative Dentistry- for ChairSide Assisting.
   c. Department Of Pedodontia- for ChairSide Assisting.
   d. Department Of Oral Surgery - for Chair Side Assisting.
   e. Department Of Pharmacy – For Loading Of Syringes.
   f. Discussion, Dramas & Talks regarding Oral Hygiene.

Second Year:

1. Posting at Mental Hospital
2. Preparation of splints
3. Attend Dental Health Camps.
DENTAL HYGIENIST COURSE

SITES FOR OJT

1. Govt Dental College & Hospital Hyd
2. Full Fledged Corporate Dental Hospitals Recognized By The Dental Council Of India
3. Government Dental College – Vijayawada – With The Consent Of The Principal
4. Ravi Gandhi Institute For Dental Sciences – Cuddapah With The Consent Of The Principal
5. Posting At The Mental Hospital & Institutions For Mentally Handicapped children. Learn How To Cope Up With Mentally Handicapped Patients.

SITES FOR OJT AFTER COMPLETION OF 2ND YEAR COURSE

1. Govt Dental College & Hospital – Hyderabad.
   a. Department Of Community Dentistry.
   b. Periodontia Department.
   c. Other Department in Government dental college & hospital.
2. Other govt or corporate dental hospitals which are recognized by the Dental Council of India.

VIII) COLLABORATION INSTITUTIONS FOR CURRICULUM TRANSACTION

1. Govt Dental college & hospital AFzulgunj which is attached to Osmania, general hospital-Afzulgunj. The collaboration for this course is since 1980.
2. All the classes except English and G.F.C are being conducted in Govt. dental College and hospital. English & G.F.C. are being taught in Govt City Jr. College – Hyderabad.
3. They can be posted in various specialty departments of Govt dental college & hospital to observe and assist in different treatment procedures.
4. Govt dental college – Vijayawada – A.P.
5. Rajiv Gandhi Institute for Dental Sciences Cuddapah – AP.
6. These courses may be attached to the departments of periodontia & Department of Community dentistry where they get sufficient exposure to work directly on patients & participate in dental health camps in rural areas & slums.
LIST OF EQUIPMENTS

1. Dental chairs with units.
2. Ultra sonic scalars.
5. Sets of supra gingival scalars & sub-gingival scalars.
6. Tweezers.
7. Mouth mirrors.
8. Slide projectors.
9. Auto clave & Other Sterilizers.
10. Instruments Trays.
14. X-Ray Unit.
15. O.P.G Unit.
16. Van With Mobile Dental Chair For Dental Camps.

TEACHING STAFF & THEIR QUALIFICATIONS:

1. Lectures Teaching The Dental Hygienist Students Should Have Minimum Qualifications Of – B.D.S (Bachelor Of Dental Surgery).
2. A senior Qualified Dental Hygienist With Five Years In Oral Prophylaxis & Chairside Assistance Under The Guidance Of Faculty Members.
VERTICAL MOBILITY

a) With Bridge Course:-

After passing D.H Course the students are eligible to appears for EAMCET Examination. They can opt for Degree Courses; like B.S.C. Microbiology/B.S.C. Biotechnology, B.S.C. Nutrition/ B.S.C Computers electronics etc.

b) Without Bridge Course:-

The students are eligible to take admission in to B.S.C/B.Com/ B.A. degrees .

Work Load for Lecturers

I) Lecturer I is teaching

2. Human Physiology – first year.
4. Dental Health Education - Second year .
5. Chairside Assistance - Second year.

II) Lecturer II is teaching

2. Oral Pathology, Bacteriology & Dental Pharmacology – first year .
4. Dental ethics & jurisprudence - Second year .
DENAL HYGIENIST
MODEL QUESTION PAPER
1ST YR –PAPER-1
DENTAL ANATOMY, PHYSIOLOGY & HISTOLOGY

TIME :3 Hours
max .marks :50

SECTION –A
Note: (i) Answer all the Questions
(ii) Each Question Carries 2 Marks

1. What is Rickets?
2. What is cleft lip?
3. What is deglutition
4. Draw the histological picture of the normal Mucosa and label it?
5. What is Cementum?
6. Eruption Sequence of permanent lower and upper anterior teeth?
7. What are the muscles of mastication?
8. Name the different types of periodontal fibers.
9. Name the cranial nerves.
10. Names the ducts of the major salivary glands.

SECTION-B
Note: (i) Answer any 5 Question
(ii) Each Question carries 6 marks

11. Describe the Mandibular 1st Molar permanent tooth.
12. Describe the 7th cranial nerve course and distribution.
14. Describe about the dental pulp.
15. Describe the mechanism of blood clotting.
16. Describe the development stages of tooth.
17. Describe the maxilla.
18. Describe the various muscles of facial expression.
DENTAL HYGIENIST COURSE

DENTAL HYGIENIST
MODEL QUESTION PAPER
1ST YR - PAPER-II
ORAL PATHOLOGY, BACTERIALOGY & DENTAL PHARMACOLOGY

TIME : 3 Hours          max .marks : 50

SECTION – A

Note: (i) Answer all the Questions  
      (ii) Each Question Carries 2 Marks

1. What are the factors causing dental caries?
2. Mention some oral manifestations of diabetic patients.
3. Define sedatives and name any two sedatives.
4. What is microdontia and macrodontia?
5. Define bacteriaemia, septicemia?
6. Therapeutic uses of gum paints
7. What is Gingivitis and its clinical features?
8. Define Attrition, Abrasion and Erosion.
9. Define Sterilization, mention the various methods.
10. What is immunity?

SECTION – B

Note: (i) Answer any 5 Question  
      (ii) Each Question carries 6 marks

11. What is AIDS write in detail about it?
12. Classify the various routes of drug Administration and write in detail about them?
13. What is analgesic? Classify and describe the various analgesics used in dentistry?
14. Describe various mouthwashes dentifrices and gum paints used in dentistry?
15. Describe various antibiotics commonly used in dentistry?
16. What are the differences between malignant and benign lesions of oral cavity?
17. Describe various types of gingival enlargement?
18. Describe the various Dental Anamolies.
DENTAL HYGIENIST COURSE

DENTAL HYGIENIST

1ST YR –PAPER-III

DENTAL RADIOLOGY, FOOD & NUTRITION

TIME :3 Hours

max .marks :50

SECTION –A

Note: (i) Answer all the Questions 10 X 2 = 20
(ii) Each Question Carries 2 Marks

1. What is the speed of a film?
2. What is lateral oblique view?
3. What is long technique?
4. What is a bite wing x-ray?
5. Name the contents of an x-ray film packet.
6. How do you prepare a diet chart for a diabetic patient?
7. What is the size of an O.P.G film?
8. What is malnutrition?
9. What is Beri –Beri?
10. Why is lead Apron used?

SECTION –B

Note: (i) Answer any 5 Question 5 x 6 =30
(ii) Each Question carries 6 marks

11. Classify vitamins. Write in detail about vitamin B complex.
12. What are the dietary requirements during pregnancy and Lactation?
13. Give the composition and explain processing of a radiograph.
14. Classify intra –oral and extra-oral radiographs give their sizes and uses.
15. What is a balanced diet? What is the importance of each component?
16. Describe the various methods of fluoridation.
17. What are the hazards of radiation discuss in detail.
18. Give the Diet chart for a patient with facture jaw bones.
DENTAL HYGIENIST
II YEAR –PAPER-1
DENTAL HYGIENE & ORAL PROPHYLAXIS

TIME: 3 Hours          max .marks:50

SECTION –A

Note: ( i) Answer all the Questions  10 X 2 = 20
(ii) Each Question Carries 2 Marks

1. What are oral irrigation devices?
2. What are the various grasps of hands instruments?
3. What are Entrinsic Stains?
4. What is Gingivitis?
5. What is tooth-brush? What are the desirable features of tooth-brush?
6. What is Gingival Hyperplasia?
7. What is gingival abscess?
8. What is periodontal packet marking probe?
9. What is periodontitis?
10. What is periodontal pack?

SECTION –B

Note: (i) Answer any 5 Question  5 x 6 =30
(ii) Each Question carries 6 marks

12. What are the different tooth brushing techniques?
13. Write about Inter dental cleansers.
14. Write about ultrasonic scales.
15. Write about plaque control methods.
16. Write about polishing agents & colonal polishing techniques.
17. What is periodontal disease? Write about causes & types.
18. Describe the etiology, clinical features and treatment for ANUG.
DENTAL HYGIENIST MODEL QUESTION PAPER 2nd YR –PAPER-II
PUBLIC HEALTH & DENTAL PUBLIC HEALTH

TIME :3 Hours max .marks :50

SECTION –A

Note: (i) Answer all the Questions (ii) Each Question Carries 2 Marks

1. Write a note on Thumb sucking habit..
2. Write about Bruxism.
3. What are the traditional tooth cleaning methods?
4. What are the functions of saliva?
5. Write about DMF index.
6. How do you prevent Dental caries?
7. Write about mouth-washes.
8. What is a ultrasonic scaler.
9. Define plaque and calculus.
10. What are the requirements of an ideal tooth brush?

SECTION-B

Note: (i) Answer any 5 Question (ii) Each Question carries 6 marks

11. What is the etiology of Dental caries?
12. How do you conduct a Dental Health Camp?
13. How do you manage a physically handicapped child?
14. What is the etiology of oral cancer?
15. What type of Dental health education is given to pregnant mothers?
16. What is Epidemiology? Describe OHI-S.
17. Describe the various methods of fluoridation.
18. Describe the procedure of giving atraumatic restorations.
MODEL QUESTION PAPER
DENTAL HYGIENIST
2nd YR –PAPER-III
CHAIRSIDE ASSITANCE, DENTAL ETHICS JURISPRUDENCE AND DENTAL MATERIALS
TIME :3 Hours          max .marks :50

SECTION –A
Note I) answer all the Questions       10 X 2 = 20
   (ii) Each Question Carries 2 Marks
1. What Is Criminal Law?
2. Write The Names Of The Instruments Used To Examine The Patient.
3. List out The Suturing Instruments.
4. What is tensile Strength of Gypsum?
5. Write The Composition Of Zinc Oxide Eugenol cement.
6. Write About Suction Apparatus.
7. Write the names of Permanent filling materials.
8. What are dental auxiliaries?
9. What Is Corrosion?
10. What Are The Expanded Duties Of Dental Hygienist?

SECTION-B
Note: (i) Answer any 5 Question       5 x 6 =30
   (ii) Each Question carries 6 marks
11. What are the advantages and disadvantages Of Alginate Impression Material?
13. What is the composition of dental council of India and state dental council?
14. What are The Principles of Surgery?
15. What are the Methods of Sterilization and maintaining Asepsis in Dental Practice?
17. Write In Detail About Appointment Control And Management Of Waiting Patients.
18. Describe the various temporary filling materials.
SUBJECT COMMITTEE MEMBERS:

1. Dr.S.Jagadeshwar Rao, MDS, Asst. Professor, Department of Community Dentistry, Government Dental College & Hospital, Hyderabad.

2. Dr.N.Manjula, BDS, Lecturer in Dental Hygienist Course, Govt. City Junior College, Hyderabad.

3. Dr.G.Sucharita, BDS, MBA, Director, Rukkus Cosmetic & Dental Hospital, Hyderabad.


5. Sri B.Gnana Sagar, Professor (FAC), S.I.V.E. & Deputy Director, O/o the Commissioner of Intermediate Education, Andhra Pradesh, Hyderabad.