4A.1.2 SYLLABUS (Including Teaching Hours.)

MUST KNOW 46 HRS

1. Introduction: 01 HR
   - History of Dentistry (India and abroad),
   - Definitions - Public Health
   - Introduction, Definition, History, Changing concepts, History of Public Health In India
   Characteristic method and Technique

2. Dental Public Health 01 HR
   - Aims, and Objectives, Tools, Procedural Steps in Dental
   Public Health, Similarities and dissimilarities between
   Clinical Dentistry and Public Health Dentistry, Functions
   of the public health dentist

3. Survey 02 HR
   - Need, Aims of a Survey, types of survey, Oral health Surveys
   - Basic Methods (WHO 1997)

4. Program Planning and Evaluation. Planning cycle, types of evaluation 01 HR

5. Biostatistics 03 HRS
   - Introduction, Application in Dentistry, data collection,
   Sampling techniques - Measures of Central Tendency,
   - Measures of Dispersion, Normal Curve, Presentation of
   data- Tables, charts and Diagram.
   - Tests of Significance, Confidence limits.

6. General Epidemiology 03 HRS
   - Introduction, Definition, Aims and Objectives, Principles,
   Difference between clinical medicine and Epidemiology,
   Basic measurement in Epidemiology, Incidence and
   Prevalence. Descriptive Epidemiology,
   Analytical Epidemiology (Case control and Cohort study),
   Experimental Epidemiology. Uses of Epidemiology.

7. Health 01 HR
   - Definition, Changing concepts, Dimension, Determinants,
   Ecology, and Spectrum of health.

8. Disease 01 HR
   - Concepts, Natural history, Epidemiological Triad, Iceberg
   Phenomenon, Spectrum of disease and Dynamics of disease
   transmission. Concepts of prevention
   (Levels and modes of intervention)

9. Environment and Health 02 HRS
   - Water: Norms of Potability, uses of water and sources,
   purification of water (Large and small scale), hardness of water
- Air: Composition, air pollution, effects, prevention and control of air pollution.

10 Social Environment 01 HR
Definitions, Types of Family
Influence of culture on oral health, Influence of social class on oral health
Types of social classes.
Utilization of dental care according to social class

11 Waste Disposal 01 HR
- Sources of refuse, health hazard and methods of Disposal

12 Communication for Health Education. 02 HRS
- Definition, communication process, types, barriers, approaches in health education, health education and Propaganda,
- Contents of Health Education, Principles, methods, and aids

13 School health programmes 01 HR
- Aims, elements, advantages, disadvantages
- School Health programs in developing and developed countries

14 Epidemiology of Dental caries 02 HRS
- Host, agent and Environmental factors.
- Levels of prevention for dental caries

15 Prevention and control of Dental caries. Fluorides 02 HRS
- Introduction, History, Physiology of Fluoride, sources,
- Systemic fluoridation, topical fluoride
- Defluoridation, toxicity, safety dose, Caries vaccine.

16 Caries Activity tests 01 HR
- Pit and fissure sealant.

17 Epidemiology of Periodontal disease. 01 HR
- Host, agent and Environmental factors.
- Prevalence of periodontal disease.

18 Prevention and control of Periodontal Disease. 01 HR
- Levels of prevention for periodontal disease.
- Plaque control

19 Epidemiology and Prevention and control of malocclusion. 01 HR

20 Epidemiology Prevention and control of oral cancer. 02 HRS
- Host, agent and Environmental factors. Prevalence
Levels of prevention for oral cancer.

21 Indices. 03 HRS
- Introduction, classification, ideal requisites, uses.
- Dental caries indices – DMFT, DMFS, dmft, dft, dfs, defs,
- Gingival Indices - Loe and Sillness index
- Plaque Indices- Sillness and Loe index.
- Oral hygiene indices- OHI and OHIS
- Periodontal Indices - Russell's periodontal index, CPITN, CPI.
- Dental fluorosis Index- Dean's fluorosis index
WHO proforma 1997

22 Provision of dental care 01 HR
Private and group practice, Part time practice, HMO, PPO,
Neighborhood health clinic, Portable equipments.

23 Dental Payments. 01 HR
Types of dental payments in detail
Dental insurance

24 Dental Auxiliaries. 01 HR
Definition, classification, description of each in Detail,
New type of dental auxiliaries, Degree of supervision of auxiliaries

25 Health care of the community 01 HR
- PHC, Elements of primary health care, Principles of primary health care.
Health care system in India.- Public sector, private sector,
indigenous systems voluntary health agency, National health program and National oral health care program

26 Health agencies around the world. 01 HR

27 WHO 01 HR

28 Dental council of India 01 HR
Dentist's Act 1948

29 Indian Dental Association. Structure, functions. 01 HR

30 Ethics, Ethical Principles, Ethical rules for Dentists 01 HR

31 Dental Jurisprudence and Consumer Protection Act 01 HR

32 Dental Practice Management 01 HR
- Areas for consideration - planning, finance, setting up of fees, quality care, records, Legal implications,
Consumer related aspects.
DESIRABLE TO KNOW  15HRS

The UN Millennium developmental goals.
National oral health Policy
Indian Association of Public Health Dentistry.
Training and calibration of examiners.
Evaluating a public health problem (Problem Based learning)
Regression techniques
Association and Causation
Investigation of an epidemic
Recent advances in epidemiology
Epidemic, endemic and pandemic diseases across the world.
Light, Requirement of good lighting, Natural and artificial light, methods of artificial lighting.
Noise: Sources, properties, effects, control.
Radiation: Sources, Types, Biological Effects, Radiation protection.
Social and Cultural Anthropology.
Dental waste disposal.
Health promotion, Approaches to Health Promotion.
WHO contribution, Implementation of school health program.
Trends in dental caries in developed and developing countries
Caries risk assessment i.e. Cariogram
Chairside caries activity test newer advances in pit and fissure sealants
Periodontal risk assessment
Tobacco control and Habit cessation. New modalities in diagnosis of oral cancer
Genetics and oral cancer
Malocclusion indices.-
Recent dental caries index i.e. ICDAS
Indices for incipient caries
Community fluorosis index.
Provision of dental care in India
National Rural Health Mission
Contribution of centre and state in oral health in India, oral health care for special groups

Indian Association of Public Health Dentistry, International Labor organization.
International food Organization.
WHO goals for oral health.
Organisation of IDA in India
Nuremberg code,
Declaration of Geneva,
World medical association
International code of Medical ethics,
Declaration of Helsinki Ethics in Dental Research
Classification of malpractice
New materials for ART
### 4A.1.3 EXAMINATION PATTERN

<table>
<thead>
<tr>
<th>NAME OF EXERCISE</th>
<th>TIME ALLOTTED</th>
<th>MARKS ALLOTTED</th>
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<tbody>
<tr>
<td>Case History including Indices.</td>
<td>01 Hr</td>
<td>50</td>
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<tr>
<td>Project Work</td>
<td>NA</td>
<td>15</td>
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<tr>
<td>Journal</td>
<td>NA</td>
<td>05</td>
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<tr>
<td>Preventive Procedure</td>
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<td>20</td>
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<tr>
<td>Viva</td>
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