

FOURTH YEAR B.D.S. DEGREE EXAM
(Common to Third Year Paper IV - Modified Regulation III Candidates and
Final Year Paper VIII - New Modified Regulation Candidates)

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Mention the various methods of water purification. Write in detail about rapid sand filter method.
2. Define and classify epidemiology. Describe in detail about descriptive epidemiology.

II. Write Notes on: **(10 x 5 = 50)**

1. Barriers of communication.
2. Comprehensive dental care.
3. Types of biomedical waste.
4. Measures of dispersion.
5. Indian Dental Association.
6. Mechanical plaque control.
7. Pit and fissure sealant.
8. Cohort.
9. Defluoridation methods.
10. Epidemiological triad.

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PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Define Potable water. Enumerate various methods of water purification. Write in detail about biological water purification.
2. Define planning. Enumerate the steps in planning.

II. Write Notes on: **(10 x 5 = 50)**

1. Behaviour learning theory.
2. Differentiate between Propaganda and health education.
3. ASKOV.
4. Comprehensive dental care.
5. Community water fluoridation.
6. Cluster sampling.
7. Sampling error.
8. Recommended dietary allowance.
9. ART.
10. Biomedical waste management.

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PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Define Health Education. Enumerate various methods of Health Education aids.
2. Describe in detail the various modes of Finance in dental care delivery.

II. Write Notes on: **(10 x 5 = 50)**

1. Write a brief note on the historical studies on artificial water fluoridation.
2. Enumerate the indications of pit and fissure sealants. Enumerate the various steps in the disposal of hospital waste.
3. Describe in detail the various concepts of disease.
4. Enumerate the various modes of interventions of primary prevention of dental caries.
5. OHI - S Index.
6. Enumerate the various principles of ethics.
7. Describe the Antiplaque mechanism of action of chlorhexidine mouthwash.
8. Defluoridation.
9. Describe the various methods of dispersion in biostatistics.
10. Enumerate the various types of smokeless tobacco products.

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Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Discuss the various caries activity and susceptibility test used in dental practice.
2. Define dental auxiliaries. Discuss the functions of various non operating dental auxiliaries in oral health promotion.

II. Write Notes on: **(10 x 5 = 50)**

1. Describe the difference between a individual and public health practice.
2. Describe the various principles of primary health care approach.
3. Describe the various uses of epidemiology.
4. Discuss the importance of normal distribution.
5. Discuss the various approaches for tobacco cessation practices.
6. Discuss the basis for third party pre payment plans in dental finance.
7. Describe the method and criteria for scoring Plaque Index.
8. Describe the various works of World Health Organization.
9. Discuss the role of caries vaccines in preventive dentistry.
10. Discuss the various concepts of causation of diseases.

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Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Describe in details the procedural steps in planning a dental public health program.
2. Define Health Education. Enumerate the contents of Health Education. Add a note on mass media.

II. Write Notes on: **(10 x 5 = 50)**

1. Describe the various milestones in dental public health.
2. Describe the importance of Blinding in a epidemiological study.
3. Describe the principle and procedure of Lactobacillus colony count test.
4. Discuss the role of school dental nurse in oral health delivery.
5. Epidemic.
6. Nalgonda Technique.
7. Principles of Epidemiology.
8. Discuss the advantages and disadvantages of 2% Sodium Fluoride Solution.
9. Discuss the importance of recommended index ages for oral health assessment.
10. Discuss the factors affecting the retention of a pit and fissure sealant.

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Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Discuss the mechanism of action of systemic fluorides. Write in detail about professionally applied topical fluorides.
2. Discuss in detail prevention of oral cancer.

II. Write Notes on: **(10 x 5 = 50)**

1. Presentation of Data.
2. Mortality and morbidity indicators.
3. Randomized Control Trial.
4. Delta dental plan.
5. Chemical plaque control methods.
6. WHO.
7. Dean's Fluorosis Index.
8. Levels of prevention.
9. Write a brief note on sociology.
10. Pathfinder survey.

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Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Discuss in detail the components of school oral health program.
2. What is potable water? Discuss in detail large scale purification of water.

II. Write Notes on: **(10 x 5 = 50)**

1. Acute fluoride toxicity and its management.
2. Write a note on screening.
3. Public financing in dental care.
4. Describe Epidemiological Triad
5. Discuss in brief about Cohort study.
6. Write a note on Association and causation.
7. Disposal of solid waste.
8. CPITN.
9. Etiology and risk factors for oral cancer.
10. Describe Nicotine Replacement Therapy

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Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Define Epidemiology. Mention the different Epidemiological studies. Describe in detail about Experimental Epidemiology.
2. Define Survey. Write in detail steps in conducting a Survey.

II. Write Notes on: **(10 x 5 = 50)**

1. Fluoride varnish.
2. Incremental dental care.
3. Bangalore method of waste disposal.
4. Interdental cleaning aids.
5. Barriers of health education.
6. Vipeholm study.
7. Consumer protection act.
8. Write a note on sampling.
9. Functions of Dental Council of India.
10. Write a note on Central Tendency.

[LR 661]

**NOVEMBER 2020
(AUGUST 2020 SESSION)**

Sub. Code: 4223

**FOURTH YEAR B.D.S. DEGREE EXAM
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PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Define Water Fluoridation. Describe Mechanism of action of systemic Fluorides.
2. Define Dental Caries. Discuss the levels of Prevention of Dental Caries.

II. Write Notes on: **(10 x 5 = 50)**

1. Write a note on Precancerous Lesions of Oral Cavity.
2. Describe Modified Bass Technique.
3. Tools of Dental Public Health.
4. Describe the principles of Health Education.
5. Describe Chemical Plaque Control.
6. Write about Incidence and Prevalence.
7. Acute Fluoride Toxicity and its Management.
8. Operating Auxiliaries.
9. Russell's Periodontal Index.
10. Indian Dental Association.

[BDS 0921]

SEPTEMBER 2021
(FEBRUARY 2021 SESSION)

Sub. Code: 4223

FOURTH YEAR B.D.S. DEGREE EXAM

**(Common to Third Year Paper IV - Modified Regulation III Candidates and
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PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Define Health. Write in detail about Health Care System in India.
2. Define Dental Auxiliary. Discuss the Functions of Various Operating Dental Auxiliaries Oral Health Promotion.

II. Write Notes on:

(10 x 5 = 50)

1. Professional Negligence.
2. Mechanism of Action of Fluorides.
3. Write a note on Mechanical Plaque Control.
4. Computers in Biostatistics.
5. Nuremberg Code.
6. Caries Risk Assessment.
7. Hand Over Mouth Exercise.
8. Private Practice and Public Health Dentist.
9. Changing Concepts of Public Health.
10. Personal Barrier Techniques for Infection Control.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1221]

**DECEMBER 2021
(AUGUST 2021 SESSION)**

Sub. Code: 4223

FOURTH YEAR B.D.S. DEGREE EXAM

**(Common to Third Year Paper IV - Modified Regulation III Candidates and
Final Year Paper VIII - New Modified Regulation Candidates)**

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Define and Classify Epidemiology. Describe in detail about Descriptive Epidemiology.
2. Define Planning. Plan an Oral Health Program for School Children in India.

II. Write Notes on:

(10 x 5 = 50)

1. Defluoridation.
2. Non-operating Dental Auxiliaries.
3. Hill's Criteria of Causation.
4. Chemical Disinfection.
5. Cariogram.
6. Bloomberg Initiative.
7. Tests of Significance.
8. The UN Millennium Development Goals.
9. Third Party Pre-Payment.
10. Principles of Ethics.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0522]

**MAY 2022
(FEBRUARY 2022 SESSION)**

Sub. Code: 4223

**B.D.S. DEGREE EXAM
(Common to Third Year Paper IV Modified Regulation III Candidates and
Final Year Paper VIII New Modified Regulation Candidates)**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: **(2 x 10 = 20)**

1. Define Sampling. Add a note on ideal requirements of Sampling. Write in detail about various Sampling methods.
2. Describe in detail about various modes of Finance in Dental care delivery.

II. Write Notes on: **(10 x 5 = 50)**

1. Health for all in 21st century.
2. Duties of Public Health Dentist.
3. Write a note on small scale water purification.
4. Comparison between Case Control and Cohort study.
5. Nutrition and Dental Caries.
6. Dental Caries Vaccine.
7. Types of Evaluation.
8. Root Caries Index.
9. Various approaches to achieve Health.
10. Parametric Tests.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1022]

**OCTOBER 2022
(AUGUST 2022 SESSION)**

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

**(Common to Third Year Paper IV Modified Regulation III Candidates and
Final Year Paper VIII New Modified Regulation Candidates)**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Define Health. Write in detail about Health Care System in India.
2. Define Dental Auxiliary. Discuss the functions of various operating dental auxiliaries in oral health promotion.

II. Write Notes on:

(10 x 5 = 50)

1. Professional Negligence.
2. Mechanism of Action of Fluorides.
3. Write a note on Mechanical Plaque Control.
4. Computers in Biostatistics.
5. Nuremberg Code
6. Caries Risk Assessment
7. Hand Over Mouth Exercise.
8. Private Practice and Public Health Dentist.
9. Changing Concepts of Public Health.
10. Personal Barrier Techniques for Infection Control.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0223]

FEBRUARY 2023

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

**(Common to Third Year Paper IV Modified Regulation III Candidates and
Final Year Paper VIII New Modified Regulation Candidates)**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on: (2 x 10 = 20)

1. Define Health Education. Elaborate in detail about various principles of Health Education.
2. Define Potable Water. Discuss in detail about Large Scale Purification of Water.

II. Write Notes on: (10 x 5 = 50)

1. Correlation in health research.
2. Types of needs in dental care for utilization of dental services.
3. Self-applied topical fluorides.
4. Consumer Protection Act.
5. Cohort study.
6. Russell's Periodontal Index.
7. Presentation of Data.
8. Indian Dental Association.
9. Chemical Plaque Control.
10. Nicotine Replacement Therapy.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0723]

JULY 2023

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

**(Common to Third Year Paper IV Modified Regulation III Candidates and
Final Year Paper VIII New Modified Regulation Candidates)**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Elaborate on various Caries activity and susceptibility tests used in Dental Practice.
2. Discuss in detail about etiology and risk factors for Oral Cancer.

II. Write Notes on:

(10 x 5 = 50)

1. Tertiary level of Prevention.
2. Dean's Fluorosis Index.
3. Bangalore method of Waste Disposal.
4. Bias in Cohort studies.
5. Steps in Planning a Health Programme.
6. Atraumatic Restorative Treatment.
7. Incidence and Prevalence.
8. Controlled Water Fluoridation Studies.
9. School Dental Nurse.
10. Measures of Central Tendency.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 1023]

**OCTOBER 2023
(AUGUST 2023 EXAM SESSION)**

Sub. Code: 4223

**B.D.S. DEGREE EXAMINATION
(Common to Third Year Paper IV Modified Regulation III Candidates and
Final Year Paper VIII New Modified Regulation Candidates)**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: 180 Minutes

Maximum: 70 Marks

I. Elaborate on:

(2 x 10 = 20)

1. Define Potable water. Enumerate various methods of water purification. Write in detail about biological water purification.
2. Define and classify Epidemiology. Describe in detail about Experimental Epidemiology.

II. Write Notes on:

(10 x 5 = 50)

1. Differentiate between Propaganda and health education.
2. Iceberg phenomenon.
3. Blinding in Epidemiological study.
4. Delta dental plan.
5. Nicotine Replacement Therapy.
6. Consumer Protection Act.
7. World Health Organization.
8. Degrees of supervision in Dental Auxiliaries.
9. Incremental dental care.
10. Fluoride varnishes.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0224]

FEBRUARY 2024

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

**(Common to Third Year Paper IV Modified Regulation III Candidates and
Final Year Paper VIII New Modified Regulation Candidates)**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Elaborate on various Plaque Control Measures.
2. Discuss in detail about Principles of Primary Health Care and add a note on levels of Prevention.

II. Write Notes on:

(10 x 5 = 50)

1. Parametric and Non Parametric test of significance.
2. Space maintainers.
3. Role and Responsibilities of Dental Hygienist.
4. Dentifrices.
5. Pit and Fissure sealant.
6. Bio Medical Waste Management.
7. Tools of measurement in Epidemiology.
8. Nalgonda Technique of Water defluoridation.
9. Tell show do technique of Behavior Management.
10. Probability sampling methods.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0824]

AUGUST 2024

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Write about types of Fluoridation. Write in detail about professionally applied topical Fluorides.
2. Discuss the various levels of prevention of Periodontal disease and discuss in detail about risk factors for Periodontal disease.

II. Write Notes on:

(10 x 5 = 50)

1. Barriers of communication.
2. Nalgonda technique.
3. Ideal requirements of an Index.
4. Pathfinder survey.
5. Procedural steps in pit and fissure sealant application.
6. Steps in Cohort study.
7. Behaviour learning theory.
8. Measures of Dispersion.
9. Millennium Development Goals.
10. Tattle Tooth Programme.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BDS 0225]

FEBRUARY 2025

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

**New Modified Revised Regulation (August 2016 Examination Session onwards)
and New Modified Regulation {Candidates admitted from 2008-2009 onwards}**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Describe in detail the advantages and disadvantages of various types of topical fluorides used in preventive dentistry.
2. Define Health, Public Health and discuss briefly the tools of Dental Public Health.

II. Write Notes on:

(10 x 5 = 50)

1. What are the types of oral examination?
2. Write about caries vaccine.
3. Discuss the measures of dispersion.
4. Discuss on various bias in case control study.
5. Write about rapid filters in water purification.
6. Write a brief note on tobacco cessation.
7. Discuss the various barriers of health education.
8. Discuss DMFT index.
9. What is comprehensive dental care?
10. Discuss the dental plan.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[BDS 0825]

AUGUST 2025

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

**New Modified Revised Regulation (August 2016 Examination Session onwards)
and New Modified Regulation {Candidates admitted from 2008-2009 onwards}**

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: Three Hours

Maximum: 70 Marks

**Answer All Questions in the same order
Draw suitable diagrams wherever necessary**

I. Elaborate on:

(2 x 10 = 20)

1. Define Survey. Write in detail about steps in conducting a Survey.
2. Write about categories of Hospital waste. Describe in detail about Hospital Waste Management.

II. Write Notes on:

(10 x 5 = 50)

1. Tools of Epidemiology.
2. Vipeholm study.
3. Chemical plaque control.
4. Comprehensive dental care.
5. Normal distribution.
6. Concepts of disease.
7. Educational aids used in health education.
8. Preventive Resin Restoration.
9. CPITN probe.
10. Snyder test.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[BDS 0226]

FEBRUARY 2026

Sub. Code: 4223

B.D.S. DEGREE EXAMINATION

{New Modified Revised Regulation (August 2016 Examination Session onwards)}

And New Modified Regulation (Candidates admitted from 2008-2009 onwards)}

(For the candidates admitted during the academic year 2021-2022)

FINAL YEAR

PAPER VIII – PUBLIC HEALTH DENTISTRY

Q.P. Code: 544223

Time: Three Hours

Maximum: 70 Marks

Answer All Questions in the same order

Draw suitable diagrams wherever necessary

I. Elaborate on:

(2 x 10 = 20)

1. Difference between Systemic and Topical Fluorides. Discuss in detail about professionally applied topical fluorides.
2. Define Health. Write in detail the indicators of Health.

II. Write Notes on:

(10 x 5 = 50)

1. Write briefly about Dental hygienist.
2. Discuss the steps in descriptive study.
3. Dental Varnishes.
4. Discuss briefly the defluoridation methods.
5. Write the properties of Normal curve.
6. Write about specific Oral Health Programs in School.
7. Discuss briefly about Counselling for tobacco cessation.
8. Discuss about the methods of Health Education.
9. Modes of transmission of Hepatitis B virus and prevention.
10. Describe about training and calibration in survey.
