

**FURTHER DETAILS REGARDING MAIN TOPICS OF
PROGRAMME No. 12/2019 (Item No.22)**

**ASSISTANT PROFESSOR IN COMMUNITY DENTISTRY
(NCA NOTIFICATION)**

**KERALA MEDICAL EDUCATION SERVICE
(Category No.029/2018)**

I. NUTRITION AND ORAL HEALTH

- I) Nutrition in Today's World
 - 1. Understanding Nutrition as the Foundation for General and Oral Health in the 21st Century
 - 2. What is an Adequate Diet?
 - 3. Energy Balance and Weight Control

- II) The Nutrients
 - 4. Carbohydrates
 - 5. Protein for Systemic and Oral Health: Meeting Needs in a Multicultural World
 - 6. Lipids in Health and Disease
 - 7. The Minerals and Mineralization
 - 8. Fluids and Electrolytes
 - 9. Vitamins Today
 - 10. Dietary Supplements

- III) Nutrition in Oral Health
 - 11. Nutrition in the Growth and Development of Oral structures
 - 12. Diet, Nutrition, and Teeth
 - 13. Nutrition and the Periodontium

- IV) Nutrition for Oral Health promotion through the Life Cycle
 - 14. Nutrition for Pregnancy, Lactation, Infancy, and Toddlers
 - 15. Nutrition for Children and Adolescents
 - 16. The Adult and Older Dental Patient
 - 17. Nutritional Concerns for the Dentally Compromised Patient
 - 18. Oral and Nutritional Concerns for Individuals with Special Medical and Health Care Needs
- V) Applied Nutrition in Clinical Practice
 - 19. Effective Communication in Dental Practice
 - 20. Principles of Diet Screening, Risk Assessment, and Guidance

II. SOCIOLOGY AND BEHAVIOURAL SCIENCES

- I) Sociology and Its Relevance to Medical Sciences
- II) Society
- III) Community
- IV) Culture
- V) Social Groups
- VI) Collective Behaviour
- VII) Family
- VIII) Socialization
- IX) Social Control
- X) Social Stratification
- XI) Social Change

III. PUBLIC HEALTH

- I) Concepts in Health Care
- II) Epidemiology of Non-communicable Diseases
- III) Demography, Family Planning and Maternal and Child Health
- IV) Nutrition
- V) School Health Service and Principles of Health Education
- VI) Occupational Health
- VII) Health Care Systems and National Health Programmes in India

IV. DENTAL PUBLIC HEALTH

- 1. Hospital Administration
- 2. Dental Needs and Resources
- 3. Planning and Evaluation in Oral Health
- 4. School Dental Health Programmes
- 5. Dental Practice Management
- 6. Dental Council of India DCI and Indian Consumer Protection Act
- 7. Behavioural Sciences
- 8. Forensic Odontology
- 9. Epidemiology of Dental Caries
- 10. Epidemiology of Periodontal Diseases
- 11. Oral Health Education
- 12. Dental Auxiliaries
- 13. Financing Dental Care

14. Indices used in Dentistry

V.SURVEY METHODS IN HEALTH RESEARCH

1. The Planning of Surveys
2. The Coverage of Surveys
3. Basic Ideas of Sampling
4. Types of Sample Design
5. Methods of Data collection
6. Questionnaires
7. Scaling Methods
8. Response Errors
9. Processing Of the Data
10. Analysis, Interpretation And Presentation

VI. EPIDEMIOLOGY

1. Introduction to Epidemiology
2. Epidemiologic Measures
3. Patterns of Occurrence
4. Medical Surveillance
5. Disease Outbreaks
6. Diagnostic Testing
7. Clinical Trials
8. Cohort Studies
9. Case-Control Studies

10. Variability & Bias
11. Clinical Decision-Making
13. Interpretation of Epidemiologic Literature

VII. BIOSTATISTICS IN ORAL HEALTHCARE

1. Summarizing Data and Clinical Trials
2. Measures of Central Tendency, Dispersion and Skewness
3. Probability and Probability distribution
4. Sampling Distributions
5. Confidence Interval and Sample Size
6. Hypothesis Testing : One and Two sample case
7. Categorical Data Analysis
8. Regression analysis and Correlation
9. One-way and Two-way analysis of Variance
10. Non-Parametric Statistics
11. Survival Analysis

VIII. PREVENTIVE DENTISTRY

1. Caries detection and diagnosis
2. Diagnosis of Periodontal diseases
3. Oral Cancer
4. Evidence-based dentistry
5. The role of Diet in the prevention of Dental diseases
6. Probiotics and Dental Caries risk

7. Mechanical Plaque control
8. The role of Sugar alcohols, Xylitol, and chewing gums in preventing dental diseases
9. Ozone in prevention of Dental diseases
10. Protection of the Dentition
11. Tooth erosion
12. The aetiology, diagnosis, and management of dentin hypersensitivity
13. Fluoride therapy
14. Dental sealants
15. Strategies for remineralisation
16. Oral health promotion in infants and preschool age children
17. High risk patients: the frail older adult living in long-term care homes
18. The effective Preventive Dental team

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper