

**Paper Code : 12017**  
**B.D.S. (Fourth Professional) Examination February-2018**  
**Public Health Dentistry**

Time : Three Hours

Maximum Marks : 70

**Note :** Attempt all questions. Draw neat labelled diagrams wherever necessary.

**Part A**

(Marks : 35)

Q. No. 1. Define prevention. Describe different levels of prevention with suitable examples.

15 Marks

Q. No. 2. Write short notes on the following :

5 Marks Each

- (a) Cohort study
- (b) Mean, median and mode
- (c) Chemical plaque control

Q. No. 3. Multiple Choice Questions.

1 Mark Each

- (a) Culture is :
  - (i) Dance
  - (ii) Song
  - (iii) Drama
  - (iv) A common pattern of life
- (b) Natural sources of radiation are :
  - (i) X-rays
  - (ii) Radioisotopes
  - (iii) Occupational
  - (iv) Cosmic rays
- (c) Single host factor which is very much related to disease is :
  - (i) Heights
  - (ii) Age
  - (iii) Weight
  - (iv) Race
- (d) Leucoplakia is more common in :
  - (i) Tobacco chewers
  - (ii) Panmasala chewers
  - (iii) Bidi smokers
  - (iv) Alcohol drinkers
- (e) The basic unit of society is the :
  - (i) Child
  - (ii) Family
  - (iii) Individual
  - (iv) Man

Conti..2..

**Part B**

(Marks : 35)

Q. No. 1. Define Epidemiology. What are the principles of epidemiology?  
Describe in brief use of epidemiology.

15 Marks

Q. No. 2. Write short notes on the following:

5 Marks Each

- (a) Pit and Fissure sealants
- (b) Dental Council of India
- (c) Oral Hygiene Index (simplified)

Q. No. 3. Multiple Choice Questions :

1 Mark Each

- (a) Best approach to study a case is :
  - (i) Case control study
  - (ii) Clinical trial
  - (iii) Cross-sectional study
  - (iv) Cohort study
- (b) Systemic water fluoridation reduces caries :
  - (i) by 25%
  - (ii) only on smooth surfaces
  - (iii) on smooth and pit and fissures
  - (iv) is possible only in advanced countries
- (c) The 'chocking off' mechanism takes place after topical application of :
  - (i) Sodium fluoride
  - (ii) Acidulated phosphate fluoride
  - (iii) Stannous fluoride
  - (iv) Sodium monofluorophosphate
- (d) The recommended concentration of fluoride in a community water supply is :
  - (i) 0.1 ppm
  - (ii) 0.5 ppm
  - (iii) 1.0 ppm
  - (iv) 2.0 ppm
- (e) Opaque white areas covering more than 25% of the tooth surface is given the Deans's score of :
  - (i) 1
  - (ii) 2
  - (iii) 3
  - (iv) 4

**Paper Code : 12017**  
**BDS Final Year**  
**University Examination – 2018**  
**Public Health Dentistry**

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Write answer in separate answer book for Part A and Part B. Explain your answer with appropriate diagrams.**

**Part A**

**(35 Marks)**

- Q.1. Define Epidemiology. Discuss the epidemiological investigation methods in Analytical epidemiology. **(15 Marks)**
- Q.2. Write short notes on the following : **(5 Marks Each)**
- (a) Banglore method of waste disposal
  - (b) Jurisprudence
  - (c) Principles of Primary health care
- Q.3. Attempt all the multiple choice questions and choose one correct answer. **(1 Mark Each)**
- (a) **Multifactorial causation was given by ?**
    - (i) Mcmohan and Pugh
    - (ii) Pettenkofer of Munich
    - (iii) Brad Ford Hill's
    - (iv) Wilson and Jounger
  - (b) **Socratic method is a type of \_\_\_\_\_ communication**
    - (i) One way
    - (ii) Two way
    - (iii) Visual
    - (iv) Verbal
  - (c) **Sucrose is a :**
    - (i) Monosaccharide
    - (ii) Disaccharide
    - (iii) Polysaccharide
    - (iv) None of the above
  - (d) **How many regional offices are there of WHO ?**
    - (i) 4
    - (ii) 10
    - (iii) 6
    - (iv) 8
  - (e) **In which year shoe leather survey by T.H. Dean was carried out ?**
    - (i) 1931
    - (ii) 1945
    - (iii) 1934
    - (iv) 1942

**Conti..2..**

**Part B****(35 Marks)**

Q.1. What is Preventive Dentistry ? Describe measures used in prevention of dental and oral diseases at individual and mass level in India.

**(15 Marks)**

Q.2. Write short Notes on the following:

**(5 Marks Each)**

- (a) Delta plans
- (b) School Dental Nurse
- (c) Sampling

Q.3. Multiple Choice Questions.

**(1 Mark Each)**

(a) DCI came into existence on :

- (i) March 1949
- (ii) April 1948
- (iii) April 1947
- (iv) March 1947

(b) The weight of CPITN Probe is :

- (i) 2 gms
- (ii) 4 gms
- (iii) 3 gms
- (iv) 5 gms

(c) Prophylactic odontotomy was introduced by :

- (i) Millar
- (ii) Bodecker
- (iii) Hyatt
- (iv) Wilson

(d) Chi-square test is used to test :

- (i) Proportion
- (ii) Association
- (iii) Goodness of Fit
- (iv) All of the above

(e) The 5 As and 5 R method is used usually for :

- (i) Periodontal therapy
- (ii) Caries detection
- (iii) Tobacco cessation
- (iv) Caries activity test

**Paper Code : 12017**  
**BDS Fourth Year**  
**University Supplementary Examination – February 2019**  
**Public Health Dentistry**  
**Paper VIII**

Maximum marks: 70

TIME: 3 hours

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B.**

(35 Marks)

**Part A**

Q.1. Define Epidemiology? Classify epidemiological studies and describe briefly the case control study?

(15 Marks)

(5 Marks Each)

Q.2. Write short notes on the following :

- (a) Principles of Health education
- (b) Ethics in Dentistry
- (c) Iceberg phenomenon

(1 Mark Each)

Q.3. Multiple Choice Questions.

(a) Study of time, place & person is called as -

- |                                |                                  |
|--------------------------------|----------------------------------|
| (i) Experimental epidemiology  | (ii) Analytical epidemiology     |
| (iii) Descriptive epidemiology | (iv) Randomised controlled trial |

(b) Index teeth in OHI-S index are

- |                              |                             |
|------------------------------|-----------------------------|
| (i) 16, 11, 26, 36, 31, 46   | (ii) 16, 12, 26, 36, 32, 46 |
| (iii) 17, 11, 27, 37, 31, 47 | (iv) 16, 12, 24, 36, 32, 44 |

(c) Odd's ratio is calculated from -

- |                             |                         |
|-----------------------------|-------------------------|
| (i) Cohort Study            | (ii) Case Control Study |
| (iii) Cross-Sectional Study | (iv) Randomised trial   |

(d) Father of Epidemiology is -

- |                 |                     |
|-----------------|---------------------|
| (i) Hippocrates | (ii) Edwin Chadwick |
| (iii) John Snow | (iv) John M. Last   |

(e) IDA was founded in -

- |            |           |
|------------|-----------|
| (i) 1946   | (ii) 1935 |
| (iii) 1945 | (iv) 1955 |

Conti..2..

**Part B****(35 Marks)**

- Q.1. Define Survey? Discuss various steps in Survey with brief about Basic Oral Health Survey? **(15 Marks)**
- Q.2. Write short Notes on the following: **(5 Marks Each)**
- Measures of central tendency
  - Hopewod House Study
  - DCI & IDA
- Q.3. Multiple Choice Question. **(1 Mark Each)**
- "Choking off" phenomenon takes place after application of -**
    - NaF
    - SnF<sub>2</sub>
    - APF
    - Sodium monofluorophosphate
  - Disclosing agent is -**
    - Chlorhexidine
    - Mercurochrome preparation
    - Quaternary ammonium compound
    - Sorbitol
  - Use of Pit & fissure sealant is contraindicated in -**
    - Arrested caries
    - Recalcitrant caries
    - Remedial caries
    - Rampant caries
  - Knuttson technique for fluoride application is done in following age groups -**
    - 3, 7, 11, 13
    - 8, 13, 18, 31
    - 2, 6, 10, 16
    - 2, 7, 11, 18
  - Recommended time for acid chewing before placing the pit & fissure sealant is -**
    - 30 sec
    - 90 sec
    - 60 sec
    - 120 sec

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BDS Fourth Year

University Examination – August-September 2019

Public Health Dentistry

Paper Eight

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A**

**(35 Marks)**

Q.1. Define Epidemiology. Describe in detail etiology, Pathogenesis and epidemiology of dental caries. **(15 Marks)**

Q.2. Write short notes on the following : **(5 Marks Each)**

(a) Chemical Plaque Control

(b) Planning

(c) Survey Procedure

Q.3. Multiple Choice Questions. **(1 Mark Each)**

**(a) When is world no tobacco day celebrated?**

(i) 1<sup>st</sup> March

(ii) 31<sup>st</sup> May

(iii) 6<sup>th</sup> March

(iv) 6<sup>th</sup> November

**(b) Case control studies comes under which type of epidemiology?**

(i) Descriptive

(ii) Analytical

(iii) Experimental

(iv) None of the above

**(c) Dentist Act of India was farmed in which year?**

(i) 1947

(ii) 1948

(iii) 1949

(iv) 1950

**(d) Head Quarter of WHO is in which country?**

(i) USA

(ii) China

(iii) England

(iv) Switzerland

**(e) Psychoanalytic theory of child Psychology was given by -**

(i) Piaget

(ii) John Snow

(iii) Sigmund Freud

(iv) Eric Erickson

**Conti..2..**

**Part B****(35 Marks)**

- Q.1. Define water fluoridation and write in detail about 5 golden studies of water fluoridation? **(15 Marks)**
- Q.2. Write short Notes on the following: **(5 Marks Each)**
- Infection Control in Dentistry
  - Ice Berg's Phenomena
  - Behavior Management in Dentistry
- Q.3. Multiple Choice Question. **(1 Mark Each)**
- One step that we do not perform during Pit & Fissure sealant application -**
    - Isolation at tooth
    - Etching at tooth
    - Drying
    - Applying bonding agent
  - Type-I error in biostatics is also known as -**
    - Alpha
    - Beta
    - Gamma
    - Hexa
  - Which of the following waste is not disposed in yellow color bags -**
    - Human anatomical waste
    - Blood contaminated solid waste
    - Pharmaceutical waste
    - Microbiological waste
  - Which among the following is not a parametric test -**
    - Z test
    - T test
    - Mann whitney U test
    - ANOVA
  - CPITN index was given in which year?**
    - 1971
    - 1982
    - 1992
    - 1995

(35 Marks)  
describe briefly  
(15 Marks)  
(5 Marks Each)

(1 Mark Each)



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of dental caries

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**Paper Code : 12017**  
**BDS Fourth Year**  
**University Examination – February 2020**  
**Public Health Dentistry**  
**Paper Eight**

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TIME: 3 hours

Maximum marks: 70

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**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A**

**(35 Marks)**

Q.1. Define survey. What are the steps in surveying?

**(15 Marks)**

Q.2. Write short notes on the following :

**(5 Marks Each)**

- (a) Nutrition and oral health
- (b) Dental auxiliaries
- (c) School dental health program

Q.3. Multiple Choice Questions.

**(1 Mark Each)**

**(a) The specificity of a screening test measures -**

- (i) True positive
- (ii) False positive
- (iii) True negative
- (iv) False negative

**(b) The lethal dose of fluorides for an adult is -**

- (i) 2.0 – 3.5 g
- (ii) 2.5 – 10 g
- (iii) More than 10 g
- (iv) 10-15 g

**(c) The pressure applied by the probe in CPITN -**

- (i) 25 g
- (ii) 35 g
- (iii) 10 g
- (iv) 22 g

**(d) A hypothesis is -**

- (i) A report
- (ii) A supposition
- (iii) A theory
- (iv) An experiment

**(e) The index teeth used in OHI – S are -**

- (i) 16, 21, 24, 36, 41, 44
- (ii) 16, 11, 26, 36, 32, 46
- (iii) 16, 11, 26, 36, 31, 46
- (iv) 16, 21, 26, 32, 36, 46

**Conti..2..**

**Part B**

(35 Marks)

- Q.1. Define dental caries. Discuss etiology and prevention of dental caries. (15 Marks)
- Q.2. Write short Notes on the following: (5 Marks Each)
- (a) Topical Fluorides
  - (b) Indian Dental Association
  - (c) Various Principles of Ethics
- Q.3. Multiple Choice Question. (1 Mark Each)
- (a) **Which of these sugars is least cariogenic-**
- (i) Lactose
  - (ii) Xylitol
  - (iii) Sucrose
  - (iv) Fructose
- (b) **Diseases transmitted to man through animals -**
- (i) Communicable
  - (ii) Transmissible
  - (iii) Zoonotic
  - (iv) Emerging diseases
- (c) **Incidence of any disease can be known by-**
- (i) Longitudinal study
  - (ii) Cross-sectional study
  - (iii) Pilot study
  - (iv) Case – control study
- (d) **Root caries is caused by -**
- (i) S. Viridans
  - (ii) Lactobacillus
  - (iii) S. Mutans
  - (iv) Actinomyces
- (e) **How many scores are used in Dean's modified Fluorosis index -**
- (i) 4
  - (ii) 6
  - (iii) 5
  - (iv) 7

(35 Marks)  
briefly the  
Marks)  
Each)

**Paper Code : 12017**  
**BDS Fourth Year**  
**University Examination – September 2020**  
**Public Health Dentistry**  
**Paper VIII**

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B.**

**Part A**

**(35 Marks)**

Q.1. Define health education. Enumerate various methods of health education. AIDS.

**(15 Marks)**

Q.2. Write short notes on the following :

**(5 Marks Each)**

- (a) Pit and fissure sealant
- (b) Biomedical waste management
- (c) Various Principles of Ethics

Q.3. Multiple Choice Questions.

**(1 Mark Each)**

**(a) The concentration of NAF for Daily Mouth Rinse -**

- (i) 0.2 %
- (ii) 0.05%
- (iii) 0.1%
- (iv) 0.01%

**(b) Seasonal trend is characteristic of -**

- (i) Congenital Disease
- (ii) Communicable disease
- (iii) Auto-Immune Disease
- (iv) Non-communicable disease

**(c) Defluoridation of water can be done by -**

- (i) Chlorine
- (ii) Bleaching Powder
- (iii) Lime and Alum
- (iv) Sodium chloride

**(d) The maximum amount of fluoride is present in -**

- (i) Tea
- (ii) Coffee
- (iii) Sea Fish
- (iv) Olive Oil

**(e) Index used to measure periodontitis in large population :**

- (i) Plaque Index
- (ii) Gingival Index
- (iii) GBI Index
- (iv) Periodontal Index

**Conti..2..**

**Part B**

(35 Marks)

Q.1. Describe in detail the various modes of finance in dental care delivery.

(15 Marks)

Q.2. Write short Notes on the following:

(5 Marks Each)

- (a) Presentation of Data
- (b) Caries Activity Tests
- (c) Health Agencies in India

Q.3. Multiple Choice Question.

(1 Mark Each)

(a) **The part of greatest demineralization in enamel caries -**

- (i) Dark Zone
- (ii) Body of Lesion
- (iii) Surface Zone
- (iv) Translucent Zone

(b) **Tenacious Jelly – Like material on tooth surface-**

- (i) Dental Plaque
- (ii) Material ALBA
- (iii) Calculus
- (iv) Food Debris

(c) **Caries activity test which gives quantitative determination of acidogenic microorganisms -**

- (i) Snyder Test
- (ii) Fosdick Test
- (iii) Alban Test
- (iv) Blawary Test

(d) **The epidemiological triad is -**

- (i) Agent, Host, Disease
- (ii) Host, Disease, Time
- (iii) Agent, Disease, Time
- (iv) Agent, Host, Environment

(e) **The concentration of SNO<sub>2</sub> used for topical applications -**

- (i) 8%
- (ii) 1-23 %
- (iii) 2%
- (iv) 5%

Paper Code :  
05 Fourth Year  
Examination - Feb  
Dentistry

Marked  
Mark for  
(15  
Marks

**Paper Code : 12017**  
**Main/Supplementary University Examination – March, 2021**  
**BDS Fourth Year**  
**Public Health Dentistry**  
**Paper Eight**

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A**

(35 Marks)

- Sur Q.1. Define Potable Water. Write the characteristics of potable water. Describe water purification methods at large scale. (15 Marks)
- Q.2. Write short notes on the following : (5 Marks Each)
- Draw and discuss the Planning Cycle.
  - Differences between Incidence and Prevalence
  - Principles of Health Education
- Q.3. Multiple Choice Questions. (1 Mark Each)
- Health Promotion Phase is one of the 4 concepts of public health. This concept was present in -**

(a) 1880-1920	(b) 1920-1960
(c) 1960-1980	(d) 1980-2000
  - Spectrum of health has \_\_\_\_\_ degrees of health.**

(a) 5	(b) 6
(c) 7	(d) 8
  - The iceberg phenomenon is not observed in -**

(a) Viral hepatitis	(b) Poliomyelitis
(c) Influenza	(d) Chickenpox
  - The organism that has been isolated from dental bio-films and has been of much concern is -**

(a) Hepatitis B Virus	(b) Hepatitis C Virus
(c) Streptococcus Viridans	(d) Legionella Pneumophilia
  - First referral level is -**

(a) Primary Health Care	(b) Secondary Health Care
(c) Tertiary Health Care	(d) All of the above

(35 Marks)

**Part B**

(35 Marks)

ery.

(15 Marks)

arks Each)

Q.1. Discuss in detail the various methods used for Finance in Dentistry.

(15 Marks)

Q.2. Write short Notes on the following:

(5 Marks Each)

(a) Topical fluorides

ark Each)

(b) Hospital Waste Management

(c) Methods of Data Presentation

Q.3. Multiple Choice Question.

(1 Mark Each)

(i) **Who is often called the "Father of Public Health"?**

(a) John Snow

(b) Winslow

(c) Cholera

(d) Tuberculosis

(ii) **Anti-AIDS day is observed on :**

(a) 31<sup>st</sup> May(b) 1<sup>st</sup> July(c) 13<sup>th</sup> October(d) 1<sup>st</sup> December

acidogenic

(iii) **The concentration of ortho-phosphoric acid applied for etching the tooth surface before application of sealant is -**

(a) 23%

(b) 30%

(c) 37%

(d) 44%

(iv) **Initial carious lesions are also called -**

(a) First lesions

(b) Primary lesions

(c) White spot lesions

(d) None of the above

(v) **The epidemiological triad is -**

(a) Agent, Host, Disease

(b) Host, Disease, Time

(c) Agent, Disease, Time

(d) Agent, Host, Environment

(35 Marks)

Part  
(35 Marks)  
describe briefly the

**Paper Code : 12017**  
**University Examination – September 2021**  
**BDS Fourth Year**  
**Public Health Dentistry**  
**Paper Eight**

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A**

(35 Marks)

Q.1. Define Prevention. What are levels of Prevention? Describe in detail various methods of Prevention of Dental caries.

(15 Marks)

Q.2. Write short notes on the following :

(5 Marks Each)

- (a) Rapid Sand Filter
- (b) Balanced Diet
- (c) Fluoride Toxicity

Q.3. Multiple Choice Questions.

(1 Mark Each)

(i) In the pyrolytic chamber of the incinerator the waste is thermally decomposed at a temperature of :

- (a) 750-800°C
- (b) 800-900°C
- (c) 900-1050°C
- (d) 1100-1250°C

(ii) The type of study used for 10 year fluoride tablet study prospectively can also be described as:

- (a) Cross sectional study
- (b) Retrospective study
- (c) Experimental study
- (d) Cohort study

(iii) Which of the following is a Non-Operative auxiliary?

- (a) School dental nurse
- (b) Dental surgery assistant
- (c) Dental hygienist
- (d) Dental therapist

(iv) Which of the following is used to measure stains:

- (a) Lobens index
- (b) Navy plaque index
- (c) Russels index
- (d) Quigley – Hein index

(v) Third dose in Hepatitis vaccine schedule is after:

- (a) 3 months
- (b) 1 month
- (c) 6 months
- (d) 4 months

Paper Code : 12017  
Main/Supplementary University Examination – March, 2021  
BDS Fourth Year  
Public Health Dentistry  
Paper Eight

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A**

(35 Marks)

Q.1. Define Potable Water. Write the characteristics of potable water. Describe water purification methods at large scale. (15 Marks)

Q.2. Write short notes on the following : (5 Marks Each)

- (a) Draw and discuss the Planning Cycle.
- (b) Differences between Incidence and Prevalence
- (c) Principles of Health Education

Q.3. Multiple Choice Questions. (1 Mark Each)

(i) **Health Promotion Phase is one of the 4 concepts of public health. This concept was present in -**

- (a) 1880-1920
- (b) 1920-1960
- (c) 1960-1980
- (d) 1980-2000

(ii) **Spectrum of health has \_\_\_\_\_ degrees of health.**

- (a) 5
- (b) 6
- (c) 7
- (d) 8

(iii) **The iceberg phenomenon is not observed in -**

- (a) Viral hepatitis
- (b) Poliomyelitis
- (c) Influenza
- (d) Chickenpox

(iv) **The organism that has been isolated from dental bio-films and has been of much concern is -**

- (a) Hepatitis B Virus
- (b) Hepatitis C Virus
- (c) Streptococcus Viridans
- (d) Legionella Pneumophilia

(v) **First referral level is -**

- (a) Primary Health Care
- (b) Secondary Health Care
- (c) Tertiary Health Care
- (d) All of the above

Conti..2..

- (c) Russels index
- (v) **Third dose in Hepatitis vaccine schedule is after:**
  - (a) 3 months
  - (b) 1 month
  - (c) 6 months
  - (d) 4 months
- to measure stains:**
  - (a) Navy plaque index
  - (b) Quigley – Hein index



**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

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**University Examination – February - March 2022**

**BDS Fourth Year**

**Public Health Dentistry**

**Paper Eight**

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A**

**(35 Marks)**

Q.1. Define Epidemiology. What are the various components of Epidemiology? Describe in detail the Case Control Study. **(15 Marks)**

Q.2. Write short notes on the following : **(5 Marks Each)**

- (a) Pit & Fissure sealants
- (b) Educational Aids in Health Education
- (c) School Dental Nurse

Q.3. Multiple Choice Questions. **(1 Mark Each)**

**(i) Fluoride most commonly used in dentifrices is :**

- (a) Acidulated phosphate fluoride
- (b) Sodium fluoride
- (c) Stannous fluoride
- (d) Strontium fluoride

**(ii) Which of the following ingredients is not found in commercially prepared toothpaste?**

- (a) Humectants
- (b) Detergent
- (c) Astringent
- (d) Binding agent

**(iii) Brush biopsy is used in the detection of:**

- (a) Oral cancer
- (b) Plaque
- (c) Gingival Hyperplasia
- (d) Material Alba

**(iv) BMI of a person is 26.33 and he falls under which category:**

- (a) Normal
- (b) Overweight
- (c) Underweight
- (d) Obese

**(v) In a lecture talk should not exceed:**

- (a) 30 minutes
- (b) 45-60 minutes
- (c) 15-20 minutes
- (d) 35-40 minutes

→ labelled diagrams wherever  
for Part A and Part

TIME: :  
Note

2

Part B

(35 Marks)

Q.1. Define Biostatistics. Explain various methods of collection and representation of data. (15 Marks)

Q.2. Write short Notes on the following: (5 Marks Each)

- (a) Principles and elements of Primary Health Care
- (b) Delta Dental Plan
- (c) Knutsons Technique

Q.3. Multiple Choice Question. (1 Mark Each)

(i) **Removal of bacteria in a slow sand filter is:**

- (a) 97%
- (b) 90-99%
- (c) 99%
- (d) 99.9-99.99%

(ii) **Screening of oral cancer is which type of prevention?**

- (a) Primordial prevention
- (b) Secondary prevention
- (c) Tertiary prevention
- (d) Primary prevention

(iii) **Oral health for healthy life was the slogan of W.H.O. in which year?**

- (a) 1998
- (b) 2003
- (c) 1994
- (d) 2009

(iv) **For epidemiological studies in rural set up which type of examination is used?**

- (a) Type-1
- (b) Type-2
- (c) Type-3
- (d) Type-4

(v) **Black area on a CPITN probe measures:**

- (a) 0.5 mm
- (b) 3.5-5.5 mm
- (c) 2.5-4.5 mm
- (d) 1.5 mm

TIME: 3 hours

Note

→ labelled diagrams wherever  
for Part A and Part

Paper Code : 12017

University Examination – August-September, 2022

BDS Fourth Year

Public Health Dentistry

Paper Eight

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A****(35 Marks)**

- (i) Q.1. Define epidemiology. Which are the different types of epidemiological studies? Describe the steps of a Randomized Controlled trial. **(15 Marks)**
- (ii) Q.2. Write short notes on the following : **(5 Marks Each)**
- (a) Measures of central tendency
  - (b) Management of Acute fluoride toxicity
  - (c) Principles, Indications & Contraindications of Atraumatic Restorative Treatment
- (iv) Q.3. Multiple Choice Questions. **(1 Mark Each)**
- (v) (I) **The study which proceeds from cause to effect is-**
- (a) Retrospective
  - (b) Cohort
  - (c) Case control
  - (d) Descriptive
- (II) **The "choking off" mechanism takes place after topical application of -**
- (a) NaF
  - (b) SnF<sub>2</sub>
  - (c) APF
  - (d) Sodium monofluorophosphate
- (III) **Socratic method of communication is used for -**
- (a) Formal communication
  - (b) Two way communication
  - (c) One way communication
  - (d) Verbal communication
- (IV) **Which is not a principle of ETHICS ?**
- (a) Beneficence
  - (b) Truthfulness
  - (c) Comprehension
  - (d) Autonomy
- (V) **When a disease spreads from one country to another country, in a short period of time, it is called -**
- (a) Epidemic
  - (b) Endemic
  - (c) Sporadic
  - (d) Pandemic

Conti..2..

Part B

(35 Marks)

Q.1. Define dental public health. Discuss various procedural steps in any dental public health work. Similarities and differences between a private practitioner and a public health dentist. (15 Marks)

Q.2. Write short Notes on the following: (5 Marks Each)

- (a) Levels of prevention
- (b) Classification of Pit & Fissure sealants
- (c) Types of sampling

Q.3. Multiple Choice Question. (1 Mark Each)

(I) The number of new cases of a specific disease occurring in a defined population during a specified period of time is known as -

- (a) Prevalence
- (b) Distribution
- (c) Point prevalence
- (d) Incidence

(II) The index teeth for CPITN index are:

- (a) 17, 16, 11, 26, 27, 37, 36, 31, 46, 47
- (b) 16, 11, 26, 36, 31, 46
- (c) 16, 12, 26, 36, 32, 46
- (d) 16, 11, 24, 36, 31, 44

(III) Dentists participating in the delta plan are paid 90<sup>th</sup> percentile whereas non-participating dentists are paid:

- (a) 30<sup>th</sup> percentile
- (b) 50<sup>th</sup> percentile
- (c) 15<sup>th</sup> percentile
- (d) 100<sup>th</sup> percentile

(IV) The first community water fluoridation was carried out in:

- (a) 1945, Colorado
- (b) 1945, Grand Rapids
- (c) 1949, Oak Park
- (d) 1949, Evanston

(V) The headquarters of WHO is situated at -

- (a) New York
- (b) London
- (c) Geneva
- (d) Washington DC

Marks: 70  
revert  
part

TIME:  
Not

Paper Code : 12017  
University Examination – February 2023  
BDS Fourth Year  
Paper Eight  
Public Health Dentistry

TIME: 3 hours

Maximum marks: 70

**Note: Attempt all questions. Draw neat labelled diagrams wherever necessary. Write answer in separate answer book for Part A and Part B. Parts of a question must be answered together.**

**Part A**

(35 Marks)

Q.1. Define survey. Which are the various types of survey? Discuss the steps in conducting a survey. (15 Marks)

Q.2. Write short notes on the following : (5 Marks Each)

- (a) Measures of dispersion
- (b) Chlorhexidine
- (c) Ideal requisites of an index

Q.3. Multiple Choice Questions. (1 Mark Each)

(i) Which of the following is NOT an index for recording of patient's oral hygiene?

- (A) OHI
- (B) Stone's Index
- (C) OHI-S
- (D) PHP

(ii) Which is NOT a component of SA's approach of tobacco cessation counseling?

- (A) Ask
- (B) Asset
- (C) Arrange
- (D) Advice

Using pit & fissure sealant is:

- (A) Specific protection
- (B) Early diagnosis and treatment
- (C) Secondary prevention
- (D) Limitation of disability

(iv) The brushing technique indicated for young children is:

- (A) Fone's method
- (B) Modified Stillman technique
- (C) Modified Bass
- (D) Charter's technique

(v) ART was started in which country?

- (A) New Zealand
- (B) Tanzania
- (C) India
- (D) Bangladesh

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Part B

(35 Marks)

- Q.1. What are the different types of fluoride delivery methods? Explain in detail about mechanism of action of fluorides. Advantages and disadvantages of topical sodium fluoride application. (15 Marks)
- Q.2. Write short Notes on the following: (5 Marks Each)
- Russel's Periodontal Index
  - Operating dental auxiliaries
  - WHO pathfinder survey
- Q.3. Multiple Choice Question. (1 Mark Each)
- All are the measures of dispersion, EXCEPT-**

(A) Variance	(B) Mode
(C) Standard deviation	(D) Range
  - The prevention of emergence or development of risk factors in countries where they have not yet appeared is what type of prevention?**

(A) Primary	(B) Secondary
(C) Tertiary	(D) Primordial
  - Knutson's technique utilizes:**

(A) 1.23% APF	(B) 8% SnF <sub>2</sub>
(C) 2% NaF	(D) Any of the above
  - Which of the following methods is used for defluoridation?**

(A) Boiling	(B) Nalgonda
(C) Nalanda	(D) None of the above
  - The method of prepayment wherein the patient pays a percent of total cost -**

(A) Loan	(B) Co-insurance
(C) Reasonable fee	(D) Fee for service