



## CBRT - 2020 Question Paper Grid

Government of Goa

11 October 2020

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### Lecturer(Public Health Dentistry)

**Passage:**

Mikhail Gorbachev's ouster, through dramatic in every respect, is on no account a surprise. Both his foes and his closest friends have been warning him of it with a heightening sense of urgency for the past several months. Its consequences, however, are wholly unpredictable. The Soviet Union, could well witness protracted violence on a mass scale should the reformist and republics, those which have sought varying degrees of sovereignty for themselves, choose to defy the central authority. It is possible that the country after an initial period of uncertainty, and perhaps even violence, could revert to the pre-perestroika system. Equally uncertain is the course of East-West relations. These are bound to deteriorate through the extent of deterioration must remain a matter of conjecture. Hailed abroad as a leader who had dared to free Soviet Citizens from fear, who had enabled the countries of Eastern Europe to become democracies even as they regained their full sovereign status, who had paved the way for the reunification of Germany and who had exposed the moribund and totalitarian character of communism, he appeared, at home, to come under fire from all sides.

**Itemcode : EA1071**

**Q1 :** Under Gorbachev's term, the Soviet people were

- (a) Afraid to speak
- (b) Indisciplined and lazy
- (c) Committed to Communism
- (d) Not afraid to criticize

Key: **D**

**Itemcode : EA1072**

**Q2 :** The relations between the Soviet Union and Western Countries

- (a) are likely to remain unaffected
- (b) may improve considerably
- (c) will definitely get worse
- (d) will fluctuate

Key: **C**

**Itemcode : EA1073**

**Q3 :** The post- Gorbachev era may witness

- (a) A more open economy
- (b) reversal of perestroika
- (c) Greater role for reformers
- (d) Sovereignty for Republics

Key: **B**

**Itemcode : EA1074**

**Q4 :** As a result of his policies, the countries of Easter Europe became

- (a) Democratic and truly independent
- (b) Authoritarian and inhuman
- (c) United and totalitarian
- (d) Democratic but with a monarchy

Key: **D**

**Itemcode : EA1075**

**Q5 :** The removal of Mikhail Gorbachev from power is

- (a) Thrilling and extraordinary
- (b) Dramatic but expected
- (c) Vivid and shocking
- (d) Strange and cruel

Key: **B**

**Itemcode : EA1061**

**Q6 :** Which word is the odd man out?

- (a) hate
- (b) fondness
- (c) liking
- (d) Attachment

Key: **A**

**Itemcode : EA1062**

**Q7 :** REPORT is related to UGSQUV in the same way as LONGER is related to

- (a) OQPIHT
- (b) OQQFGS
- (c) OQQIHT
- (d) QPQHIT

Key: **C**

**Itemcode : EA1063**

**Q8 :** The following text is followed by four alternative summaries. Choose the option that best captures the essence of the text.

All human rights are indivisible, whether they are civil and political rights, such as the right to life, equality before the law and freedom of expression; economic, social and cultural rights, such as the rights to work, social security and education; or collective rights, such as the rights to development and self-determination, are indivisible, interrelated and interdependent. The improvement of one right facilitates advancement of the others. Likewise, the deprivation of one right adversely affects the others.

- (a) Deprivation of one person's rights adversely affects rights of another person.
- (b) Human rights are a combination of economic, social and cultural rights.
- (c) Human rights are interdependent and interrelated.
- (d) Improvement of one right facilitates advancement of others.

Key: **C**

**Itemcode : EA1064**

**Q9 :** If the number of students who passed in exactly two subjects was equal to number of students who failed in exactly two subjects, then which of the following could not be a possible number of students who passed in all the three subjects?

- (a) 24
- (b) 20
- (c) 15
- (d) 30

Key: **C**

**Itemcode : EA1065**

**Q10** Find out whether the given argument is:

:  
 There are hundred marbles in the box  
 One of the marbles is red.  
 Ninety nine of the marble is blue.  
 Therefore, the probability that next marble picked will be blue is 99%.

- (a) Inductive
- (b) Deductive.
- (c) Both
- (d) Cannot say

Key: **B**

**Itemcode : EA1066**

**Q11** The below argument is:

:  
 Some students are boys.  
 Someone is not a student.  
 Therefore, someone is not a boy

- (a) Invalid
- (b) valid
- (c) Data is not sufficient
- (d) Inductive

Key: **A**

**Itemcode : EA1067**

**Q12** Given a series 31,28,36,26,41,24,46,22,.... the next two terms are

:

- (a) 20,44
- (b) 48,20
- (c) 51,20
- (d) 56,22

Key: **A**

**Itemcode : EA1068**

**Q13** On weekends, Mr. Sanchez spends many hours working in his vegetable and flower gardens. Mrs. Sanchez spends her free time reading and listening to classical music. Both Mr. Sanchez and Mrs. Sanchez like to cook.

- (a) Sanchez enjoys planting and growing vegetables.
- (b) Sanchez does not like classical music.
- (c) Mrs. Sanchez cooks the vegetables that Mr. Sanchez grows.
- (d) Mrs. Sanchez enjoys reading nineteenth century novels.

Key: **A**

**Itemcode : EA1069**

**Q14** Look carefully for the pattern, and then choose which pair of numbers comes next.

: 8 12 9 13 10 14 11

- (a) 14 11
  - (b) 15 12
  - (c) 8 15
  - (d) 15 19
- Key: **B**

Itemcode : **EA1070**

**Q15** Find the x in the sequence: 5, 7, 25, 131, x, 8335  
:

- (a) 925
  - (b) 990
  - (c) 1233
  - (d) 1325
- Key: **A**

Itemcode : **EA1051**

**Q16** Which state government has decided to launch a scheme called 'Ektu Khelo, Ektu Padho' which means 'Play little, Study little', from June 25, 2020?  
:

- (a) Tripura
  - (b) West Bengal
  - (c) Sikkim
  - (d) Assam
- Key: **A**

Itemcode : **EA1052**

**Q17** Who invented the internet?  
:

- (a) Robert E. Kahn and Vint Cerf
  - (b) Philip Diehl
  - (c) William Sturgeon
  - (d) Frederick Banting
- Key: **A**

Itemcode : **EA1053**

**Q18** B. C. Roy Award is given in the field of  
:

- (a) Music
  - (b) Journalism
  - (c) Medicine
  - (d) Environment
- Key: **C**

Itemcode : **EA1054**

**Q19** OS' computer abbreviation usually means ?  
:

- (a) Order of Significance
  - (b) Open Software
  - (c) Operating System
  - (d) Optical Sensor
- Key: **C**

Itemcode : **EA1055**

**Q20** Which year is observed as Poverty Eradication Year by SAARC?  
:

- (a) 1998
  - (b) 1997
  - (c) 1996
  - (d) 1995
- Key: **D**

Itemcode : **EA1056**

**Q21** Which of the following dances is a solo dance?  
:

- (a) Ottan Thullal
  - (b) Kuchipudi
  - (c) Yakshagana
  - (d) Odissi
- Key: **A**

Itemcode : **EA1057**

**Q22** Which of the following is not associated with the UNO?  
:

- (a) ILO
- (b) WHO
- (c) ASEAN

(d) All of the above

Key: **C**

Itemcode : **EA1058**

**Q23** Who was the first Indian to be President of UN General Assembly?

:

- (a) Vijay Lakshmi Pandit
- (b) Ramesh Bhandari
- (c) Natwar Singh
- (d) Krishna Menon

Key: **A**

Itemcode : **EA1059**

**Q24** Which of the following is a cultural organisation?

:

- (a) UNESCO
- (b) ILO
- (c) WHO
- (d) FAO

Key: **A**

Itemcode : **EA1060**

**Q25** Headquarters of the World Health Organisation is located at

:

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

Key: **A**

Itemcode : **EA1001**

**Q26** Public health dentistry is mainly concerned with the following Health practices

:

- (a) Promotive and Therapeutic
- (b) Preventive and Therapeutic
- (c) Preventive and Promotive
- (d) Therapeutic and curative

Key: **C**

Itemcode : **EA1002**

**Q27** In an epidemiological study the incidence of disease in females is more than that of males but the prevalence is equal in both. It indicates:

- (a) Case fatality is more in female
- (b) Mortality in male is higher
- (c) Disease is of less duration in males
- (d) Females harbour disease for longer duration

Key: **A**

Itemcode : **EA1003**

**Q28** In a village of 1 lakh population, among 20,000 exposed to smoking, 200 developed cancer, and among 40,000 people unexposed, 40 developed cancer. The relative risk of smoking in the development of cancer is:

- (a) 20
- (b) 10
- (c) 5
- (d) 15

Key: **B**

Itemcode : **EA1004**

**Q29** According to the latest data released by the NITI Aayog in 2016; What is the Infant Mortality Rate in India in 2016?

:

- (a) 42 per 1000 live births
- (b) 34 per 1000 live births
- (c) 29 per 1000 live births
- (d) 54 per 1000 live births

Key: **B**

Itemcode : **EA1005**

**Q30** Which year is known as the year of demographic divide?

:

- (a) 1921
- (b) 1920
- (c) 1919
- (d) 1918

Key: **A**

Itemcode : **EA1006**

**Q31** Which of the following statements defines the density of population

:

- (a) Number of persons living per unit area
- (b) Number of persons living in a country
- (c) Change in the number of inhabitants of a country during a specific period of time
- (d) Absolute numbers added every year

Key: **A**

Itemcode : **EA1007**

**Q32** Which of these methods is called natural family planning?

:

- (a) Tracking basal temperature
- (b) Tracking changes in cervical mucus
- (c) Tracking the menstrual cycle on a calendar
- (d) All of the above

Key: **D**

Itemcode : **EA1008**

**Q33** The relationships between protracted conflict and HIV transmission has been studied in several countries. Available evidence suggests that:

- (a) Protracted conflict consistently accelerates HIV transmission.
- (b) HIV transmission is faster within the poorest population groups.
- (c) In most protracted conflicts HIV prevalence is lower than expected.
- (d) In most protracted conflicts HIV prevalence is higher than expected

Key: **C**

Itemcode : **EA1009**

**Q34** The hallmark feature of an analytic epidemiologic study is: (Choose one best answer)

:

- (a) Use of an appropriate comparison group
- (b) Laboratory confirmation of the diagnosis
- (c) Publication in a peer-reviewed journal
- (d) Statistical analysis using logistic regression

Key: **A**

Itemcode : **EA1010**

**Q35** A study in which children are randomly assigned to receive either a newly formulated vaccine or the currently available vaccine, and are followed to monitor for side effects and effectiveness of each vaccine, is an example of which type of study?

- (a) Experimental
- (b) Cross sectional
- (c) Cohort
- (d) Case-control

Key: **A**

Itemcode : **EA1011**

**Q36** Social factors acting in institutions, organizations and social network act at which level?

- (a) Micro
- (b) Meso
- (c) Macro
- (d) Mega

Key: **B**

Itemcode : **EA1012**

**Q37** SMART objectives for oral health education was given by

:

- (a) Jacob & Plamping
- (b) Rogers
- (c) Prochaska
- (d) Green & Kreuter

Key: **A**

Itemcode : **EA1013**

**Q38** Archie Cochrane is associated with

:

- (a) Evidence based medicine
- (b) Health promotion
- (c) Health Education
- (d) Biomedical ethics

Key: **A**

Itemcode : **EA1014**

**Q39** If n is sample size in paired parametric test, n-1 is

:

- (a) Actual Sample size

- (b) Degrees of freedom
  - (c) Standard error
  - (d) Variance
- Key: **B**

Itemcode : **EA1015**

**Q40** Deontological ethics implies  
:

- (a) Ethics in dentistry
  - (b) Ethics that regard morality is important rather than actions
  - (c) Ethics in medico-legal cases
  - (d) Ethics that regard actions are important rather than morality
- Key: **B**

Itemcode : **EA1016**

**Q41** A most insanitary method that creates public health hazards, nuisance and severe pollution of the environment is  
:

- (a) Incineration
  - (b) Controlled tipping
  - (c) Dumping
  - (d) Composting
- Key: **C**

Itemcode : **EA1017**

**Q42** What is case-cohort study?  
:

- (a) Comparing subjects with disease and those without disease in different cohorts
  - (b) Comparing the incidence of disease among cases and controls
  - (c) Comparing the past histories of cases and non-cases in the same cohort.
  - (d) Comparing the prevalence of disease among cases and control
- Key: **C**

Itemcode : **EA1018**

**Q43** Daily requirement of fluoride is  
:

- (a) 0.1-0.7 mg
  - (b) 1-3 mg
  - (c) 4-7 mg
  - (d) >7 mg
- Key: **B**

Itemcode : **EA1019**

**Q44** Opaque white areas covering more than 25% but less than 50% of the tooth surface, is the Dean's score of  
:

- (a) 1
  - (b) 2
  - (c) 3
  - (d) 4
- Key: **C**

Itemcode : **EA1020**

**Q45** The model of web of causation of diseases was first suggested by  
:

- (a) Pettenkofer
  - (b) Mac Mohan & Pugh
  - (c) John M. Last
  - (d) C. E. A. Winslow
- Key: **B**

Itemcode : **EA1021**

**Q46** Rural health scheme' in India was launched in the year  
:

- (a) 1978
  - (b) 1975
  - (c) 1977
  - (d) 1976
- Key: **A**

Itemcode : **EA1022**

**Q47** First step in planning a Public Health program is  
:

- (a) Analysis of Programme
  - (b) Establishing objectives
  - (c) Situation analysis
  - (d) Appraisal of programme
- Key: **C**

Itemcode : **EA1023**

**Q48** Ethical principles that requires health professionals to fully inform their patients and protect their confidentiality is the principle of

- (a) Justice
- (b) Autonomy
- (c) Veracity
- (d) Beneficence

Key: **B**

Itemcode : **EA1024**

**Q49** Most effective method of Preventing Dental decay in general population is

:

- (a) Oral prophylaxis
- (b) Diet counseling
- (c) Systemic fluorides
- (d) Topical fluorides

Key: **C**

Itemcode : **EA1025**

**Q50** In medico-legal terms 'Tort' means

:

- (a) deceit
- (b) injury
- (c) battery
- (d) defamation

Key: **C**

Itemcode : **EA1026**

**Q51** A progressive increase or decrease of a disease over a long period of time, generally several years or decades is known as

:

- (a) Secular trends
- (b) cyclic trends
- (c) Seasonal trends
- (d) periodic fluctuations

Key: **A**

Itemcode : **EA1027**

**Q52** All the following are approaches to the health education except

:

- (a) Regulatory approach
- (b) Service approach
- (c) Health education approach
- (d) Primary health center approach

Key: **D**

Itemcode : **EA1028**

**Q53** The following term is used to describe the impact of school-based health education programmes on parents.

:

- (a) Side effect
- (b) Secondary effect
- (c) Ripple effect
- (d) String effect

Key: **C**

Itemcode : **EA1029**

**Q54** Law penalty for the independent practice of dental hygienists was first started in

:

- (a) Colorado
- (b) California
- (c) New-Mexico
- (d) India

Key: **A**

Itemcode : **EA1030**

**Q55** When individual patient come for dental treatment, the first procedural step is history taking and clinical examination, the corresponding step for community is

:

- (a) evaluation
- (b) study
- (c) planning
- (d) survey

Key: **D**

Itemcode : **EA1031**

**Q56** If an individual who is 12 years of age starts consuming water containing 9 ppm fluoride, over a period time (say 10 yrs), one can expect

:

- (a) dental fluorosis  
 (b) skeletal fluorosis  
 (c) both dental and skeletal fluorosis  
 (d) none  
 Key: **B**

Itemcode : **EA1032**

**Q57** Autonomy to the states from the center in terms of public health was brought about mainly by  
 :

- (a) Bore Committee report  
 (b) Montague-Chelmsford reforms  
 (c) Mukherjee Committee report  
 (d) Home rule  
 Key: **B**

Itemcode : **EA1033**

**Q58** To test the efficacy of commercially available toothpastes, the following is the relevant study design:  
 :

- (a) the participant does not know which toothpaste is being given  
 (b) the investigator does not know which toothpaste is being given  
 (c) both investigator & patient know the toothpaste being given  
 (d) neither investigator nor patient know the toothpaste being given  
 Key: **D**

Itemcode : **EA1034**

**Q59** Managed prevention is  
 :

- (a) private & public/community programs  
 (b) prevention by legislation  
 (c) 3rd party payments for preventive services  
 (d) preventive services in workplaces  
 Key: **B**

Itemcode : **EA1035**

**Q60** A system of delivery of a comprehensive health care to the people by a dental health team to improve the oral health of  
 : the community is

- (a) health  
 (b) public health  
 (c) dental public health  
 (d) community health  
 Key: **C**

Itemcode : **EA1036**

**Q61** First phase of changing concept of public health was in between  
 :

- (a) 1880-1920  
 (b) 1920-1960  
 (c) 1960-1980  
 (d) 1980-2000  
 Key: **A**

Itemcode : **EA1037**

**Q62** In the year 2017, we examined 1000 subjects in a town, and we found 50 subjects with oral submucous fibrosis (OSF).  
 : We followed same 1000 subjects for 2 years and examined again this time we noticed 60 subjects with OSF, what is  
 incidence of disease

- (a) 50/1000 / 2 years  
 (b) 60/1000/2 years  
 (c) 10/1000/2 years  
 (d) 110/1000/2 years  
 Key: **C**

Itemcode : **EA1038**

**Q63** If we give you 10 liters of water and dry fluoride powder, how much fluoride you add to the water to become 1 ppm  
 :

- (a) 10 grams in 10 liters  
 (b) 1 gram in 10 liters  
 (c) 10 milligrams in 10 liters  
 (d) 1 milligram in 10 liters  
 Key: **C**

Itemcode : **EA1039**

**Q64** Which one of the following is pre-requirement of water fluoridation?  
 :

- (a) presence of caries in community  
 (b) fluoride level 1 ppm in water  
 (c) No need of central water supply

(d) No need of community acceptance

Key: **A**

Itemcode : **EA1040**

**Q65** Knowledge instilled in the minds of people is

:

- (a) Health education
- (b) Health propaganda
- (c) Health motivation
- (d) Health promotion

Key: **B**

Itemcode : **EA1041**

**Q66** Following are the uses of .....

- :
- I. To measure the progress of each activity.
  - II. To measure the effectiveness of each activity.
  - III. To identify problems in carrying out the activity.
  - IV. For plan revision and modification

- (a) Planning
- (b) Biostatistics
- (c) Epidemiology
- (d) Evaluation

Key: **D**

Itemcode : **EA1042**

**Q67** Health economics concerns with

:

- (a) quantification of the resources used in health service delivery over a period
- (b) efficiency with which resources are allocated and used for health purpose
- (c) effect of various health service upon health and well -being of the population
- (d) all of the above

Key: **D**

Itemcode : **EA1043**

**Q68** What is / are the importance of oral health economics?

- :
- I. to formulate oral health services
  - II. to establish the true cost of delivering health care
  - III. to evaluate the relative costs and benefit of particular policy options
  - IV. to estimate the effects of certain economic variable on the utilization of health service

- (a) I
- (b) I, II
- (c) I, II, III
- (d) I, II, III, IV

Key: **D**

Itemcode : **EA1044**

**Q69** Which one is example of marginal cost?

:

- (a) Cost of OPD treatment at PHC per patient per day
- (b) Additional cost of adding hepatitis B Vaccine in universal immunization program
- (c) Both above
- (d) None of the above

Key: **B**

Itemcode : **EA1045**

**Q70** Arrange in correct order for the steps in economic evaluation?

- :
- I. Deciding upon the study question
  - II. Assessment of cost and health effects
  - III. Adjustment of uncertainty
  - IV. Adjustment of timing
  - V. Making a decision

- (a) I, III,II,IV,V
- (b) I,II,IV,III,V
- (c) I,II,III,IV,V
- (d) II,I,III,IV,V

Key: **B**

Itemcode : **EA1046**

**Q71** Advantages of cost-utility analysis

:

- (a) To measure health care cost and interventions
- (b) To evaluate the effect of nursing intervention on patient outcomes
- (c) To compare current practice and the change in practice need
- (d) all the above

Key: **D**

Itemcode : **EA1047**

**Q72** Arrange in correct order for 5 A" in counseling

:

- (a) Ask, advise, assess, assist, arrange
  - (b) Ask, advice, assist, assess, arrange
  - (c) Ask, assist, assess, advice, arrange
  - (d) Ask, Assess, advice, assist, arrange
- Key: **A**

Itemcode : **EA1048**

**Q73** Management of tobacco cessation is by

:

- (a) Counseling
  - (b) behavioral management
  - (c) pharmacotherapy
  - (d) all the above
- Key: **D**

Itemcode : **EA1049**

**Q74** India rank \_\_\_\_\_ in world for total tobacco consumption?

:

- (a) 3
  - (b) 5
  - (c) 2
  - (d) 1
- Key: **A**

Itemcode : **EA1050**

**Q75** Which one of the following is Aim of health education?

:

- (a) To adopt and sustain healthy life practices
  - (b) Known to unknown
  - (c) Motivation
  - (d) Reinforcement
- Key: **A**