



## CBRT - 2020 Question Paper Grid

Government of Goa

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**Subjects**

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### Lecturer(Orthodontics and Dentofacial Orthopaedics)

**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 : OD1071**

**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 : OD1072**

**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 : OD1073**

**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 : OD1074**

**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 : OD1075**

**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 : OD1061**

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

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

Key: **A**

Itemcode : **OD1062**

**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 : **OD1063**

**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 : **OD1064**

**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 : **OD1065**

**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 : **OD1066**

**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 : **OD1067**

**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: **C**

Itemcode : **OD1068**

**Q13** Find the x in the sequence: 5, 7, 25, 131, x, 8335

:

- (a) 925
- (b) 990
- (c) 1233
- (d) 1325

Key: **A**

Itemcode : **OD1069**

**Q14** 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 : **OD1070**

**Q15** 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 : **OD1051**

**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 : **OD1052**

**Q17** Who invented the internet?

:

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

Key: **A**

Itemcode : **OD1053**

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

:

- (a) Music  
(b) Journalism  
(c) Medicine  
(d) Environment

Key: **C**

Itemcode : **OD1054**

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

:

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

Key: **C**

Itemcode : **OD1055**

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

:

- (a) 1998  
(b) 1997  
(c) 1996  
(d) 1995

Key: **D**

Itemcode : **OD1056**

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

:

- (a) Ottan Thullal  
(b) Kuchipudi  
(c) Yakshagana  
(d) Odissi

Key: **A**

Itemcode : **OD1057**

**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 : **OD1058**

**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 : **OD1059**

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

:

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

Key: **A**

Itemcode : **OD1060**

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

:

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

Key: **A**

Itemcode : **OD1001**

**Q26** Mordex normalis, rectus and apertus is a classification of malocclusion given by:

:

- (a) Edward H Angle
- (b) Lischer
- (c) Carabelli
- (d) Strang

Key: **C**

Itemcode : **OD1002**

**Q27** Incisor classification for malocclusion was given by

:

- (a) Ballard and Wayman
- (b) Simon
- (c) Ackerman and Profitt
- (d) Katz

Key: **A**

Itemcode : **OD1003**

**Q28** Index of complexity, outcome and need (ICON) was given by

:

- (a) Grainger
- (b) Daniels and Richmond
- (c) Shaw et al
- (d) None of the above

Key: **B**

Itemcode : **OD1004**

**Q29** Gene involved in growth and development of cartilage and bone are

:

- (a) Sox 9
- (b) Indian hedgehog
- (c) IGF
- (d) All the above

Key: **A**

Itemcode : **OD1005**

**Q30** The mechanism by which growth of naso maxillary complex occurs is

:

- (a) Sutures
- (b) Nasal septum
- (c) Periosteal and endosteal surfaces
- (d) All the above

Key: **D**

Itemcode : **OD1006**

**Q31** Which is the theory that has been put forward to explain thumb sucking habit:

:

- (a) Sear's oral drive
- (b) Palermo
- (c) Eysenck's learning
- (d) All the above

Key: **C**

Itemcode : **OD1007**

**Q32** Phases of tooth movement (initial, lag and post-lag) was given by

:

- (a) Angle
- (b) Strang
- (c) Burstone
- (d) Nanda

Key: **C**

Itemcode : **OD1008**

**Q33** Syndrome associated with mandibular deficiency is

:

- (a) Gorlin
- (b) Klinefelter
- (c) Goldenhar
- (d) Crouzon

Key: **D**

Itemcode : **OD1009**

**Q34** The number of line angles in a posterior tooth are:

:

- (a) 4
- (b) 6
- (c) 8
- (d) 10

Key: **C**

Itemcode : **OD1010**

**Q35** The primordia responsible for facial development are readily observed by:

:

- (a) Fifth week of intrauterine life
- (b) Tenth week of intrauterine life
- (c) Fifteenth week of intrauterine life
- (d) Twentieth week of intrauterine life

Key: **B**

Itemcode : **OD1011**

**Q36** The cranial base grows primarily by cartilage growth in

:

- (a) Spheno-ethmoidal synchondrosis
- (b) Inter-sphenoidal synchondrosis
- (c) Spheno-occipital synchondrosis
- (d) All the above

Key: **C**

Itemcode : **OD1012**

**Q37** By 10 years which body tissue is 96 % complete ?

:

- (a) Lymphoid
- (b) Neural
- (c) General
- (d) Genital

Key: **A**

Itemcode : **OD1013**

**Q38** What serves as a 'safety valve' for pubertal growth spurt:

:

- (a) Maxillary intercanine dimension
- (b) Mandibular intercanine dimension
- (c) Maxillary intermolar dimension
- (d) Mandibular intermolar dimension

Key: **A**

Itemcode : **OD1014**

**Q39** Who gave the K-9 Spring?

:

- (a) Samules
- (b) Becker

(c) Dillingham  
(d) Varun  
Key: **D**

Itemcode : **OD1015**

**Q40** When a tooth undergoes controlled tipping, how many pressure zones do you expect to find in PDL?  
:

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

Itemcode : **OD1016**

**Q41** Milwaukee brace is used for:  
:

- (a) Maxillary teeth
  - (b) Mandibular teeth
  - (c) Scoliosis
  - (d) All of the above
- Key: **C**

Itemcode : **OD1017**

**Q42** Centre of resistance of maxillary teeth is located?  
:

- (a) Between the roots of premolar teeth
  - (b) Between the roots of first molar teeth
  - (c) Between the roots of second molar teeth
  - (d) Midway of canine root
- Key: **B**

Itemcode : **OD1018**

**Q43** The play (degree) for 21.5 x 28 wire size used in 0.022 inch slot bracket is:  
:

- (a) 2.5
  - (b) 0.5
  - (c) 1
  - (d) 1.8
- Key: **D**

Itemcode : **OD1019**

**Q44** Which of the following is an intramatrix rotation of mandible  
:

- (a) Rotation of mandibular base in relation to cranium
  - (b) Rotation of mandibular plane in relation to cranium
  - (c) Rotation of mandibular plane in relation to core of mandible
  - (d) Rotation of mandibular base in relation to maxilla
- Key: **C**

Itemcode : **OD1020**

**Q45** Individualized arch form in MBT was made after alignment with  
:

- (a) 016x022 inch NiTi archwire
  - (b) 017x025 inch NiTi archwire
  - (c) 018x025 inch NiTi archwire
  - (d) 019x025 inch NiTi archwire
- Key: **C**

Itemcode : **OD1021**

**Q46** Center of resistance of a tooth is based on the following EXCEPT:  
:

- (a) Size & shape of tooth
  - (b) PDL attachment
  - (c) Tooth position
  - (d) level of alveolar bone
- Key: **C**

Itemcode : **OD1022**

**Q47** Turbo wire in Orthodontics is:  
:

- (a) Dual flex wire
  - (b) Esthetic wire
  - (c) Braided nickel Titanium wire
  - (d) Copper nitiwire
- Key: **C**

Itemcode : **OD1023**

**Q48** "C" Anchorage in Orthodontics describes:  
:

- (a) Critical Anchorage
- (b) Moderate Anchorage
- (c) Noncritical Anchorage
- (d) Temporary Anchorage

Key: **C**

Itemcode : **OD1024**

**Q49** All of these are sign of vertical growth rotation of mandible except:  
:

- (a) Large gonial angle
- (b) Large mandibular plane angle
- (c) High jaraback ratio
- (d) Deep antigonialnotch

Key: **C**

Itemcode : **OD1025**

**Q50** All of these drugs may inhibit the Orthodontic tooth movement except:  
:

- (a) Bisphosphonates
- (b) doxycycline
- (c) Indomethacin
- (d) Prostaglandin

Key: **D**

Itemcode : **OD1026**

**Q51** In Harvold analysis ,mandibular length is measured from:  
:

- (a) gonion to menton point
- (b) gonion to gnathion point
- (c) condylon to pogonion point
- (d) gonion to pogoion point

Key: **C**

Itemcode : **OD1027**

**Q52** Models for clear aligner therapy are made by the process called:  
:

- (a) Stereography
- (b) Sterolithography
- (c) Steroangiography
- (d) stereocranigraphy

Key: **A**

Itemcode : **OD1028**

**Q53** Which of the following Orthodontic arch wire has maximum surface friction:  
:

- (a) Stainless steel wire
- (b) AJW wire
- (c) TMA wire
- (d) NIti wire

Key: **C**

Itemcode : **OD1029**

**Q54** A patient is involved in chronic mouth breathing, the clinical examination of patient reveals:  
:

- (a) Convex profile, long face
- (b) Concave profile, long face
- (c) Convex profile, short face
- (d) Concave profile, short face

Key: **A**

Itemcode : **OD1030**

**Q55** Average Korkhous palatal Index value is:  
:

- (a) 10-15%
- (b) 15-20%
- (c) 40-50 %
- (d) 60-80%

Key: **C**

Itemcode : **OD1031**

**Q56** Which of these is a nickelfree Orthodontic wire?  
:

- (a) Stainless steel wire
  - (b) Elgiloy wire
  - (c) Cobalt chromium alloy wire
  - (d) Beta titanium wire
- Key: **D**

Itemcode : **OD1032**

**Q57** Which of the following is not corrected by functional appliance?  
:

- (a) Sagittal dysplasia
- (b) Transverse dysplasia
- (c) Dental midline shift
- (d) Skeletal midline shift

Key: **D**

Itemcode : **OD1033**

**Q58** To avoid overhanging of mesiolingual cusp of maxillar first molar during expansion, it requires  
:

- (a) Lingual root torque
- (b) Increased Buccal root torque
- (c) No torque
- (d) Bayonet bend

Key: **B**

Itemcode : **OD1034**

**Q59** Artistic positioning bend is  
:

- (a) First order bend
- (b) Second order bend
- (c) Third order bend
- (d) None of the above

Key: **B**

Itemcode : **OD1035**

**Q60** Magnets in Orthodontics was introduced by:  
:

- (a) Behrman &Egan
- (b) Blechman & Smiley
- (c) Cerny
- (d) Dellinger

Key: **B**

Itemcode : **OD1036**

**Q61** Middle layer of Optiflex wire contains:  
:

- (a) Silicon Dioxide
- (b) Strain resistant Nylon
- (c) TefloN
- (d) Silicon resin

Key: **A**

Itemcode : **OD1037**

**Q62** Which appliance is also known as skeletanized Activator:  
:

- (a) Frankel II
- (b) Bimler Appliance
- (c) Bionator
- (d) Twin Block

Key: **C**

Itemcode : **OD1038**

**Q63** Apertognathia refers to:  
:

- (a) Open bite
- (b) Deep bite
- (c) Cross bite
- (d) Scissor bite

Key: **A**

Itemcode : **OD1039**

**Q64** The first bone formed in response to orthodontic loading is:  
:

- (a) Lamellar
- (b) Woven
- (c) Compact



(d) Composite  
Key: **B**

Itemcode : **OD1040**

**Q65** Which of the following is an example of dynamic anchorage:  
:

- (a) Sved plate
  - (b) Transpalatal arch
  - (c) Tip back bends
  - (d) Nance palatal button
- Key: **A**

Itemcode : **OD1041**

**Q66** Which of the following is the most common cause of gummy smile:  
:

- (a) Tipped down pre maxilla
  - (b) Gingival enlargement
  - (c) Short upper lip
  - (d) Maxillary vertical excess
- Key: **D**

Itemcode : **OD1042**

**Q67** During which of the following orthodontic tooth movement , the centre of rotation is at the bracket slot:  
:

- (a) Controlled tipping
  - (b) Torque
  - (c) Tipping
  - (d) Rotation
- Key: **D**

Itemcode : **OD1043**

**Q68** According to envelope of discrepancy, maximum amount of upper incisor retraction achieved is:  
:

- (a) 7mm
  - (b) 16mm
  - (c) 9mm
  - (d) 26mm
- Key: **A**

Itemcode : **OD1044**

**Q69** The concept of driftodontics was popularized by:  
:

- (a) William Wilcko
  - (b) Ronald Roth
  - (c) Wick Alexander
  - (d) Howard Lang
- Key: **C**

Itemcode : **OD1045**

**Q70** Power ridges is a smart force feature used in:  
:

- (a) Lingual orthodontics
  - (b) Labial orthodontics
  - (c) Aligner therapy
  - (d) Myobrace therapy
- Key: **C**

Itemcode : **OD1046**

**Q71** Important aspect of the mini aesthetic is:  
:

- (a) Incisor height/width ratio
  - (b) Black triangle
  - (c) Connectors
  - (d) Buccal Corridors
- Key: **A**

Itemcode : **OD1047**

**Q72** Trifocal ellipse is:  
:

- (a) Braiders' arch form
  - (b) Rickets arch form
  - (c) Mushroom shaped form
  - (d) Bonwill Hawley form
- Key: **A**

Itemcode : **OD1048**

**Q73** Staging of tooth movement in aligners has maximum linear and relative velocity of:  
:

- (a) 0.18 mm and 2 degrees
- (b) 2 mm and 4 degrees
- (c) 0.25 mm and 2 degrees
- (d) 2 mm and 6 degrees

Key: **A**

Itemcode : **OD1049**

**Q74** Headgear should not be prescribed in which of the following situations  
:

- (a) Facial asymmetry is severe
- (b) Posterior movement of mandibular teeth is needed
- (c) Maxillary teeth need only slight restraints from forward movement
- (d) The mandibular plane angle is high

Key: **D**

Itemcode : **OD1050**

**Q75** Buccopharyngeal membrane is present till:  
:

- (a) 2nd week post conception
- (b) 3rd week post conception
- (c) 4th week post conception
- (d) 5th day post conception

Key: **C**