



CBRT - 2020 Question Paper Grid

Government of Goa

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Set Name

Subjects

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Assistant Professor(Geology)

Passage:

In 1476, William Caxton introduced printing press in England. As a result books became cheaper and accessible. This increased the levels of literacy in England. Also publishing books for masses developed into a very profitable enterprise and made available texts written in English for the first time. This meant that the English could now read something written in their language as opposed to Latin. The printing press contributed greatly to the standardization of English. The dialects of English that were spoken in the areas where the printing houses were located were widely publish and as a result became the English with spellings and grammar becoming fixed. As a result the first English dictionary was published in 1604.

Itemcode : AL1071

Q1 : Books were written for the first time in English because

- (a) English was standardized and books were cheaper
- (b) of cheaper mass production of books
- (c) of wider literacy with easy access to books
- (d) English was opposed to Latin

Itemcode : AL1072

Q2 : The standardisation of English was facilitated due to the

- (a) proliferation of the printing press in England
- (b) role of the dialects in the areas of printing houses
- (c) wider exposure given to some dialects of English
- (d) fixation of spelling and grammar through printing

Itemcode : AL1073

Q3 : What is the term used in the passage to denote orthography

- (a) grammar
- (b) standardization
- (c) spelling
- (d) literacy

Itemcode : AL1074

Q4 : A dialect may be explained as the variety of a language specific to

- (a) the common rules of grammar
- (b) the illiterate speakers of a language
- (c) the speech of the elite strata of society
- (d) a particular region or a social group

Itemcode : AL1075

Q5 : Find a term in the passage that describes a notion that is farthest in meaning to a dictionary

- (a) lexicon
- (b) thesaurus
- (c) vocabulary
- (d) diction

Itemcode : AL1051

Q6 : Which of the following groups of terms is in the order of increasing extension?

- (a) Poodle, toy poodle, mammal, dog.
- (b) Toy poodle, poodle, dog, mammal.
- (c) Mammal, dog, poodle, toy poodle.
- (d) Toy poodle, dog, mammal, poodle.

Itemcode : AL1052

Q7 : The following argument is INVALID , if :

It is not the case that (Raju and Smitha are sincere)

If (Raju is not sincere and Smitha is not sincere) then (Mini and Nisha are sincere).

If Nisha is sincere then Mini is sincere.

Therefore, Mini is sincere.

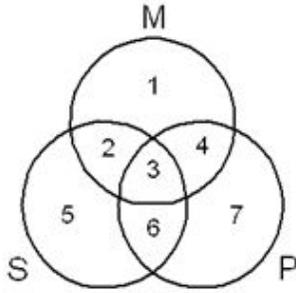
- i) P is true, Q is false, R is false, S is false,
- ii) P is false, Q is true, R is false, S is false.

- iii) P is true, Q is true, R is true, S is false.
iv) P is false, Q is false, R is false, S is true.

- (a) Only i & ii follow
(b) Only iii & iv follow
(c) Only ii & iii follow
(d) Only i & iv follow

Itemcode : **AL1053**

- Q8 :** Given the following argument:
All M are P.
Some M are S.
∴ Some S are not P.



- (a) Areas 1 and 2 are shaded, and there is an X in area 3.
(b) Areas 3 and 4 are shaded, and there is an X in area 2.
(c) Areas 1 and 2 are shaded, and there is an X on the line between areas 3 and 4.
(d) Areas 6 and 7 are shaded, and there is an X on the line between areas 2 and 3.

Itemcode : **AL1054**

- Q9 :** The mean price of new cars in Heavenly Hills is 38,563 dollars; in Cargo the mean price is only 23,769 dollars. Therefore, if you are in the market for a new car, you are likely to get a better deal on it in Cargo. Which of the following best describes the flaw in the author's reasoning?

- (a) The author's conclusion is based on a comparison that does not necessarily involve comparable things.
(b) The author assumes that the number of cars sold in Heavenly Hills is the same as the number sold in Cargo.
(c) The author has confused the mean average price with the median average price.
(d) The author assumes that new cars in Cargo are less expensive than new cars in Heavenly Hills.

Itemcode : **AL1055**

- Q10** Identify an argument that involves a reasoning process similar to that of a given argument.
: Card games requiring more than one player, such as poker and bridge, employ strategies aimed at out-witting the opponent; however, card games that are played alone, such as games of solitaire, do not. Hence, strategies that aim at outwitting an opponent are not an essential feature of all card games.
Which of the following most closely parallels the reasoning in the above passage?

- (a) Games of chance, such as roulette and craps, employ odds that are detrimental to the player, but favorable to the house. Since these are the only kinds of games that are found in gambling casinos, having odds that favor the house is an essential feature of all games played in gambling casinos.
(b) Most aircraft have wings, but others, such as helicopters, do not. Hence, having wings is not an essential property of all aircraft.
(c) Chez Bon's most celebrated features are its great food and extensive wine list. But, since these are features of many other fine restaurants as well, they are not the only features which define the essence of this outstanding restaurant.
(d) It has been reliably reported that deer occasionally eat meat, but if deer were not primarily vegetarians they would have much different shaped teeth than they do. Hence, being a vegetarian is an essential feature of being a deer.

Itemcode : **AL1056**

- Q11** There are five buildings called V, W, X, Y and Z in a row (not necessarily in that order). V is to the West of W, Z is to the East of X and the West of V, W is to the West of Y. Which is the building in the middle?

- (a) V
(b) W
(c) X
(d) Y

Itemcode : **AL1057**

- Q12** A test has twenty questions worth 100 marks in total. There are two types of questions. Multiple choice questions are worth 3 marks each and essay questions are worth 11 marks each. How many multiple choice questions does the exam have?

- (a) 12
(b) 15
(c) 18
(d) 19

Itemcode : **AL1058**

- Q13** The given text is followed by four alternate summaries. Choose the option that best captures the essence of the text.
:

The Thai holiday island of Phuket has been plunged into a poisonous grey haze caused by illegal forest fires in neighbouring Indonesia. Reduced visibility caused passenger planes from Singapore and Kuala Lumpur, and destined for Phuket airport to turn around on Thursday. The noxious fumes which have been spreading for weeks have shut down many other parts of south-east Asia. Schools have been closed in Malaysia and races in Singapore for the swimming

world cup - the FINA world championship - were cancelled on Saturday. A marathon in Malaysia on Sunday was also abandoned.

- (a) Illegal fires have resulted in poisonous smoke spreading through the neighbouring countries of Indonesia.
 (b) A poisonous haze has spread over various countries of south-east Asia due to the fires in Indonesia and it has interrupted certain activities in those countries.
 (c) Forest fires of Indonesia have resulted in spread of poisonous gases across various parts of south-east Asia and have put a stop to all the normal activities across countries over the last few weeks.
 (d) Illegal forest fires in Indonesia have spread poisonous gases across many south-east Asian countries over the last few weeks and have caused shut-down of certain normal activities in these countries.

Itemcode : **AL1059**

Q14 Five sentences are given. Each sentence has a pair of words that are italicized. From the italicized words, select the most appropriate words (1 or 2) to form correct sentences. Select the correct sequence.

Five sentences:

- I. He gave a *vivid* (1)/ *livid* (2) account of his life as a fighter pilot.
 II. The company was owned by shipping *magnet* (1)/ *magnate* (2) Fred Olsen.
 III. She wrote a feminist *critique* (1) / *critic* (2) of Freud's theories.
 IV. High temperatures can cause *delusions* (1)/ *hallucinations* (2).
 V. He was *baled* (1)/ *bailed* (2) on a minor drugs charge.

- (a) 11221
 (b) 22122
 (c) 12122
 (d) 21212

Itemcode : **AL1060**

Q15 Five sentences are given below, labeled 1, 2, 3, 4 and 5. They need to be arranged in a logical order to form a coherent paragraph. Select the correct sequence as your answer.

1. Another features a hostage-taking in a hospital.
 2. Elsewhere, an old lover surprises a lounge pianist, sending her reeling back into painful memories.
 3. An overbearing mother remembers visiting her wary son and his boisterous, pregnant wife.
 4. Most stories turn on some kind of betrayal.
 5. One story takes place at the funeral reception of a man whose wife has just learned of his infidelity.

- (a) 54231
 (b) 12453
 (c) 51234
 (d) 23451

Itemcode : **AL1061**

Q16 World Literacy Day is observed on

- (a) Sep 5
 (b) Aug 6
 (c) Sep 8
 (d) Oct 24

Itemcode : **AL1062**

Q17 In which Indian state did the game of Polo originate?

- (a) Meghalaya
 (b) Rajasthan
 (c) Manipur
 (d) West Bengal

Itemcode : **AL1063**

Q18 In which year was the 'All India Radio' set up?

- (a) 1936
 (b) 1927
 (c) 1947
 (d) 1950

Itemcode : **AL1064**

Q19 For galvanizing iron which of the following metals is used?

- (a) Aluminium
 (b) Copper
 (c) Lead
 (d) Zinc

Itemcode : **AL1065**

Q20 Excessive secretion from the pituitary gland in the children results in

:

- (a) increased height
- (b) retarded growth
- (c) weakening of bones
- (d) None of the above

Itemcode : **AL1066**

Q21 Venturi tube is used for

:

- (a) measuring intensity of earthquakes
- (b) measuring specific gravity
- (c) measuring density
- (d) measuring flow of a fluid

Itemcode : **AL1067**

Q22 The velocity of light was first measured by

:

- (a) Einstein
- (b) Newton
- (c) Romer
- (d) Galileo

Itemcode : **AL1068**

Q23 What Benjamin Franklin invented?

:

- (a) Bifocal spectacles
- (b) Radio
- (c) Barometer
- (d) Hygrometer

Itemcode : **AL1069**

Q24 Tomb of Vasco-da-Gama is situated at

:

- (a) Chittorgarh (Rajasthan)
- (b) Kochi (Kerala)
- (c) Coimbatore (Tamil Nadu)
- (d) Durgapur (West Bengal)

Itemcode : **AL1070**

Q25 This part-time race car driver invented the bucket seat in 1969. Who was he??

:

- (a) Steve McQueen
- (b) Harrison Frazier
- (c) Paul Newman
- (d) John Wayne

Itemcode : **AL1001**

Q26 Which of the following is correct decreasing order of geological evidence/assurance concerning the terminologies of reserve estimation?

:

- (a) Indicated, proved, inferred
- (b) Proved, inferred, indicated
- (c) Proved, indicated, inferred
- (d) Inferred, indicated, proved

Itemcode : **AL1002**

Q27 Pleochroic halos are commonly observed in

:

- (a) Biotite
- (b) Muscovite
- (c) Cassiterite
- (d) Calcite

Itemcode : **AL1003**

Q28 The oldest mammals and birds are known, respectively, from

:

- (a) Silurian and Devonian
- (b) Triassic and Jurassic
- (c) Cretaceous and Paleocene
- (d) Oligocene and Miocene

Itemcode : **AL1004**

Q29 In which one of the following configurations the electrodes are uniformly spaced?

:

- (a) Schlumberger array
- (b) Wenner array
- (c) Pole-dipole array
- (d) Pole-pole array

Itemcode : **AL1005**

Q30 Which one of the following is NOT a monomineralic ultrabasic rock :

- (a) Dunite
- (b) Pyroxenite
- (c) Leptynite
- (d) Anorthosite

Itemcode : **AL1006**

Q31 The length of a fault trace on a horizontal plane is 5cm, as observed on a map of 1:10,000 scale. What will be the length of the same on a 1:25,000 scale vertical aerial photograph?

- (a) 2 cm
- (b) 5 cm
- (c) 2.5 cm
- (d) 10 cm

Itemcode : **AL1007**

Q32 Which of the following is NOT a greenhouse gas :

- (a) CO₂
- (b) O₂
- (c) Methane
- (d) N₂O

Itemcode : **AL1008**

Q33 The texture of an igneous rock where a single pyroxene enveloping several well-developed plagioclase laths is known :

- (a) Ophitic
- (b) Porphyritic
- (c) Poikilotopic
- (d) Granuloblastic

Itemcode : **AL1009**

Q34 In gravity exploration Free air correction is dependent on the variation in :

- (a) density of rocks
- (b) elevation of the measuring station
- (c) latitude of the measuring station
- (d) longitude of the measuring station

Itemcode : **AL1010**

Q35 A major thrust in the Himalayas has resulted in intense shearing of a zone about 0.5 km wide on either side of the thrust leading to landslides. Which GIS function can be used to display the shear zone?

- (a) Contiguity (adjacency)
- (b) Spread
- (c) Proximity (buffer)
- (d) Search

Itemcode : **AL1011**

Q36 Which of the following best explains the principle of superposition? :

- (a) Older strata generally are deposited directly on younger strata without intervening, intermediate age strata.
- (b) Strata with fossils are generally deposited on strata with no fossils.
- (c) Both A & B
- (d) All sedimentary deposits accumulate on older rock or sediment layers.

Itemcode : **AL1012**

Q37 Global water balance shows the percentage of fresh water to the tune of :

- (a) 2.5
- (b) 97.5
- (c) 20
- (d) 50

Itemcode : **AL1013**

Q38 The folds that develop in an incompetent bed lying between the two competent beds are called :

- (a) Flexural folds
- (b) Parasitic folds

- (c) Similar folds
- (d) Drag folds

Itemcode : **AL1014**

Q39 Which one of the following combinations of sorting and roundness of sand grains results in highest permeability?

- (a) Well sorted and poorly rounded
- (b) Poorly sorted and poorly rounded
- (c) Well sorted and well rounded
- (d) Poorly sorted and well rounded

Itemcode : **AL1015**

Q40 An electromagnetic wave is composed of both electric and magnetic vectors that are

- (a) Parallel to each other
- (b) Orthogonal to each other
- (c) Oblique to each other
- (d) Circular in shape

Itemcode : **AL1016**

Q41 A reverse Fault dipping less than 45 degrees is known as

- (a) Underthrust
- (b) Overthrust
- (c) Upthrust
- (d) Thrust

Itemcode : **AL1017**

Q42 BIF consists of Magnetite/Hematite associated with

- (a) Feldspar
- (b) Quartz
- (c) Olivine
- (d) Feldspathoid

Itemcode : **AL1018**

Q43 The Characteristic mineral assemblage of eclogite facies is

- (a) Garnet-omphacite
- (b) Garnet-Pigeonite
- (c) Garnet-Diopside
- (d) Lawsonite-glaucophane

Itemcode : **AL1019**

Q44 A system for anchoring an ellipsoid to known locations on the earth is known as

- (a) Geoid
- (b) UTM
- (c) Datum
- (d) Bolide

Itemcode : **AL1020**

Q45 The normal altitude of GPS satellite is about

- (a) 16, 200 km
- (b) 20, 200 km
- (c) 24, 400 km
- (d) 36, 100 km

Itemcode : **AL1021**

Q46 The two most abundant elements in the Earth are

- (a) oxygen and Silicon
- (b) iron and magnesium
- (c) iron and silicon
- (d) oxygen and iron

Itemcode : **AL1022**

Q47 Which one of the following is NOT a set of polymorphous minerals?

- (a) quartz, coesite, tridymite
- (b) graphite, anthracite, diamond
- (c) calcite, aragonite, vaterite
- (d) kyanite, sillimanite, andalucite

Itemcode : AL1023

Q48 Choose the CORRECT statement of the following:
:

- (a) Pleuron is a part of thorax in Trilobite
- (b) Endocone is the jaw of a Gastropod
- (c) Delthyrium is a triangular cavity in Cephalopod
- (d) Madreporite is skeletal part of Brachiopod

Itemcode : AL1024

Q49 Which one of the following is CORRECT pair of ore and location of its deposit
:

- (a) Gold - Panna
- (b) Chromium - Goa
- (c) Uranium - Malanjkhand
- (d) Copper - Khetri

Itemcode : AL1025

Q50 Tsunamis are most likely to be generated when Richter scale magnitudes of earthquakes are
:

- (a) >8 under continents
- (b) >8 under oceans
- (c) <8 either under oceans or continents
- (d) >8 either under oceans or continents

Itemcode : AL1026

Q51 The most suitable radioactive method for dating of Holocene events is
:

- (a) C-12
- (b) U-Pb
- (c) C-14
- (d) Rb-Sr

Itemcode : AL1027

Q52 The Banded Iron Formation with associated iron ore deposits of Goa are hosted in which one of the following geological units
:

- (a) Vageri Formation
- (b) Bicholim-Rivona Formation
- (c) Sanvordem Formation
- (d) Trondhjemite gneiss

Itemcode : AL1028

Q53 The spatial resolution of IRS-LISS III multi-spectral sensor for Near Infra-Red (NIR) band is
:

- (a) 23.5m x 23.5 m
- (b) 70m x 70 m
- (c) 5.8m x 5.8m
- (d) 0.6m x 0.6m

Itemcode : AL1029

Q54 The Neogene Period includes
:

- (a) Palaeocene and Eocene
- (b) Palaeocene, Eocene and Oligocene
- (c) Miocene and Pliocene
- (d) Oligocene, Miocene and Pliocene

Itemcode : AL1030

Q55 Spinifex Texture is characteristic of
:

- (a) Dolerite
- (b) Diorite
- (c) Komatiite
- (d) Andesite

Itemcode : AL1031

Q56 Thrust faulting takes place along.....
:

- (a) Divergent plate tectonic setting
- (b) Convergent plate tectonic setting
- (c) Shear plate boundaries
- (d) None of the above

Itemcode : AL1032

Q57 Flexure folding involves.....

:

- (a) Bending and buckling of beds
- (b) Shear movement along micro-faults
- (c) Flowage of material towards low pressure zones
- (d) All of the above

Itemcode : AL1033**Q58** What is the change in volume of rocks due to stress called?

:

- (a) Dilation
- (b) Distortion
- (c) Dragging
- (d) Delta volume

Itemcode : AL1034**Q59** Which of the following statement is true if all the three stages of rock deformation occur?

:

- (a) Plastic deformation follows elastic deformation
- (b) Elastic deformation follows plastic deformation
- (c) Plastic deformation follows brittle deformation
- (d) Elastic deformation follows brittle deformation

Itemcode : AL1035**Q60** Birefringence of a mineral is the difference between ???

:

- (a) The refractive indices of the two rays that are transmitted through it
- (b) The velocity of the two rays that are transmitted through it
- (c) The wavelength of the two rays that are transmitted through it
- (d) The frequency of the two rays that are transmitted through it

Itemcode : AL1036**Q61** Which mineral shows pleochroism from deep brown to pale yellow?

:

- (a) Hornblende
- (b) Biotite
- (c) Tourmaline
- (d) Hypersthene

Itemcode : AL1037**Q62** A mineral is in extinction position when its vibration plane is ???.

:

- (a) Parallel to the vibration direction of analyser
- (b) At 35 degree to the vibration direction of polarizer
- (c) At 45 degree to the vibration direction of polarizer
- (d) At 45 degree to the vibration direction of analyser

Itemcode : AL1038**Q63** What is 2V in a biaxial indicatrix?

:

- (a) Acute angle between the optic axes
- (b) Obtuse angle between the optic axes
- (c) Obtuse angle between the two circular planes
- (d) Angle between the acute bisectrix and the obtuse bisectrix

Itemcode : AL1039**Q64** The Normal class of the Tetragonal crystal system is called??

:

- (a) Baryte type
- (b) Beryl type
- (c) Zircon type
- (d) Gypsum type

Itemcode : AL1040**Q65** The total number of symmetry axes in the 622 point group is??

:

- (a) 5
- (b) 7
- (c) 10
- (d) 3

Itemcode : AL1041**Q66** Which of the following forms does not occur in Orthorhombic system?

:

- (a) Macro-dome

- (b) Brachy-pinacoid
- (c) Pyramid
- (d) Octahedron

Itemcode : **AL1042**

Q67 Which factors govern the grain size of minerals in an igneous rock?
:

- (a) Diffusion rate
- (b) Rate of cooling of the magma
- (c) Viscosity of the magma
- (d) All of the above

Itemcode : **AL1043**

Q68 Dacite is the volcanic equivalent of ??
:

- (a) Norite
- (b) Syenite
- (c) Granodiorite
- (d) Granite

Itemcode : **AL1044**

Q69 Which of the following lamprophyres is essentially made up of phenocrysts of alkali pyroxenes or alkali amphiboles in a groundmass of plagioclase?
:

- (a) Minette
- (b) Alnoite
- (c) Camptonite
- (d) Monchiquite

Itemcode : **AL1045**

Q70 Layering marked by appearance and disappearance of minerals in a layered maficultramafic igneous complex is referred to as
:

- (a) Rhythmic layering
- (b) Cryptic layering
- (c) Isomodal layering
- (d) Phase layering

Itemcode : **AL1046**

Q71 Matrix supported massive gravel facies with weak grading is indicative of.....
:

- (a) Plastic debris flow
- (b) Deltaic deposit
- (c) Minor channel flows
- (d) Abandoned channel deposit

Itemcode : **AL1047**

Q72 Braided stream channels develop due to.....
:

- (a) High dissolved load
- (b) Steep surface gradient
- (c) Low surface gradient
- (d) High suspended load

Itemcode : **AL1048**

Q73 Symmetrical ripples are formed in??
:

- (a) Beach environment
- (b) Fluvial environment
- (c) Aeolian environment
- (d) Deep marine environment

Itemcode : **AL1049**

Q74 An allochemical rock with clear granular recrystallised carbonate cement will be called as.....
:

- (a) Biosparite
- (b) Biomicrite
- (c) Biolithite
- (d) None of the above

Itemcode : **AL1050**

Q75 Which of the following rivers of India drains into the Arabian Sea?
:

- (a) Penna
- (b) Tapi
- (c) Bhima
- (d) Gomati

