



CBRT - 2020 Question Paper Grid

Government of Goa

09 October 2020

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Set Name

Subjects

Display

Assistant Professor(Geography)

Itemcode : PG1121

Q1 : World Hepatitis day is observed on

- (a) 28th July
- (b) 26th June
- (c) 28th September
- (d) 23rd October

Key: **A**

Itemcode : PG1122

Q2 : What is the name of Iran's new currency?

- (a) Reman
- (b) Sian
- (c) Toman
- (d) Broon

Key: **C**

Itemcode : PG1123

Q3 : Which state of India has made Rain water harvesting compulsory for each house?

- (a) Maharashtra
- (b) Rajasthan
- (c) Madhya Pradesh
- (d) Tamil Nadu

Key: **D**

Itemcode : PG1124

Q4 : Filariasis is caused by

- (a) Bacteria
- (b) Mosquito
- (c) Protozoa
- (d) Virus

Key: **B**

Itemcode : PG1125

Q5 : Who was the first Indian Chief of Army Staff of the Indian Army ?

- (a) K.M. Cariappa
- (b) Vice-Admiral R.D. Katari
- (c) Maharaja Rajendra Singhji
- (d) None of the above

Key: **A**

Itemcode : PG1126

Q6 : Heavy Water Project (Talcher) and Fertilizer plant (Paradeep) are famous industries of

- (a) Orissa
- (b) Tamil nadu
- (c) Andhra Pradesh
- (d) Kerala

Key: **A**

Itemcode : PG1127

Q7 : Hamid Karzai was chosen president of Afghanistan in

- (a) 2000
- (b) 2001
- (c) 2002
- (d) 2003

Key: **C**

Itemcode : PG1128

Q8 : Which country is larger production of crude oil in 2019?

- (a) Saudi Arabia
 (b) USA
 (c) Russian Federation
 (d) Iraq
 Key: **B**

Itemcode : **PG1129**

Q9 : Which of the following is Academic Institute Satellite?

- (a) CARTOSAT-2B
 (b) KALPANA -1
 (c) SATYABAMASAT
 (d) INSAT-2E
 Key: **C**

Itemcode : **PG1130**

Q10 Which of the following countries has agreed to accept the payment of export of oil and petroleum products to India, in rupee terms instead of dollar or any other currency?

- (a) Kuwait
 (b) Libya
 (c) Iran
 (d) Iraq
 Key: **C**

Itemcode : **PG1111**

Q11 Which of the following words is a term?
 :

- (a) Opportunity.
 (b) Repeat.
 (c) Above the hill.
 (d) Everywhere but here.
 Key: **A**

Itemcode : **PG1112**

Q12 Salt is a nonpoisonous compound. Therefore, its component elements, sodium and chlorine, are nonpoisonous. The problem with the given argument is:

- (a) Missing the point.
 (b) False cause.
 (c) Division.
 (d) Composition
 Key: **C**

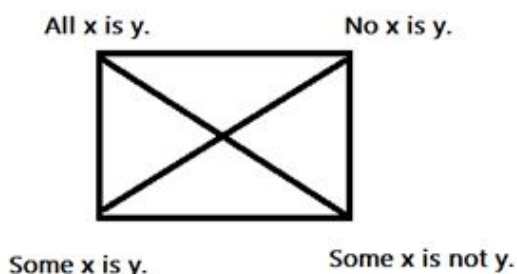
Itemcode : **PG1113**

Q13 The death penalty is clearly immoral. This is so because life is intrinsically valuable. And this follows from the fact that human beings are ends in themselves. And we know this is true because human beings have a right not to be killed - which follows from the fact that the state has no right to take human life. And why is this true? Because the death penalty is clearly immoral. This is:

- (a) Begging the question
 (b) False cause.
 (c) Slippery slope.
 (d) Good argument
 Key: **A**

Itemcode : **PG1114**

Q14
 : From the following square, find out the relationships between statements.
 If all the four statements have same subject and predicate and the given statement 'some x is y' is true, then what does NOT follow:



- i) All x is y is doubtful
 ii) No x is y is false.
 iii) Some x is not y is doubtful
 iv) Some x is not y is true

- (a) Only (i) does not follow
 (b) Only (i) and (ii) do not follow
 (c) Only (iii) does not follow

(d) Only (iv) does not follow

Key: **D**

Itemcode : **PG1115**

Q15 Which statement is logically equivalent to the statement 'it is not the case that 'No politicians are corrupted'':

- (a) All politicians are corrupted.
- (b) Some politicians are not corrupted.
- (c) Some corrupted beings are not politicians.
- (d) Some politicians are corrupted.

Key: **D**

Itemcode : **PG1116**

Q16 A six sided unbiased die with four green faces and two red faces is rolled seven times. Which of the following combinations is the most likely outcome of the experiment?

- (a) Three green faces four red faces
- (b) Four green faces and three red faces
- (c) Five green faces and two red faces
- (d) Six green faces and one red face

Key: **C**

Itemcode : **PG1117**

Q17 Six people are seated around a circular table. There are atleast two men and two women. There are at-least three right handed persons. Every woman has a left handed person to her immediate right. None of the women are right handed. The number of women at table is

- (a) 2
- (b) 3
- (c) 4
- (d) Cannot be determined

Key: **A**

Itemcode : **PG1118**

Q18 Five sentences are given below, labelled a, b, c, d and e. They need to be arranged in a logical order to form a coherent paragraph/passage. From the given options, choose the most appropriate sequence.

- a. It is estimated that over 99 per cent of Bangalore silk saris are being made with Chinese silk yarn.
- b. Markets across Indian towns and cities that are flooded with Chinese products, more so around festivals such as Deepavali, are grim reminders of how Made-in-China has come to dominate homes and offices.
- c. JLR's China launch has set alarm bells ringing for the Modi government: 'Make in India' will have to go quickly from being a statement of intent to real action on the ground.
- d. From furniture and gadgets to industrial equipment, India is importing almost all products from its neighbour, even yarn for saris.
- e. The five-year period of 2005-06 to 2009-10 was one of a smart 10 per cent plus growth for the manufacturing sector when several advantages - engineering skills, a growing domestic market, a raw material base and a large pool of skilled labour - trumped the vast barriers to doing business in India.

- (a) abedc
- (b) ecbda
- (c) bcdea
- (d) edbca

Key: **B**

Itemcode : **PG1119**

Q19 Four sentences are given below, in options. Of these, three sentences need to be arranged in a logical order to form a coherent paragraph/passage. From the given options, choose the one that does not fit the sequence.

- (a) Half of the children were conceived naturally, without the help of IVF.
- (b) Ovarian tissue transplants for women who want to have a baby after cancer treatment appear to be safe and are very successful, according to a team of experts in Denmark.
- (c) One in three young women who had a transplant and wanted to become pregnant succeeded in having a baby, analysis of results over the last 10 years has shown.
- (d) In Denmark, young women with cancer are routinely offered ovarian tissue freezing, but it is not automatic in the UK or elsewhere.

Key: **D**

Itemcode : **PG1120**

Q20 Given below are four sentences that form a paragraph. Identify the sentence(s) or part(s) of sentence(s) that is/are correct in terms of grammar and usage (including spelling, punctuation and logical consistency). Then, choose the most appropriate option.

- a. "There are very less three-month-long assignments out there," says freelance photographer Ivor Prickett.
- b. So when the Irish photographer was offered one by United Nations Refugee Agency, he didn't hesitate.
- c. "I was approached to cover the Syrian refugee crisis in the Middle East.
- d. It was a topic I was already interested in, so it's not a hard decision to say yes."

- (a) b and c
- (b) a and d
- (c) only c
- (d) a, b and d

Key: **C**

Passage:

Of all forms of literature, however, the essay is the one which least calls for the use of long words. The principle which controls

it is simply that it should give pleasure; the desire which impels us when we take it from the shelf is simply to receive pleasure. Everything in an essay must be subdued to that end. It should lay us under a spell with its first word, and we should only wake, refreshed, with its last. In the interval we may pass through the most various experiences of amusement, surprise, interest, indignation. We may soar to the heights of fantasy with Lamb or plunge to the depths of wisdom with Bacon, but we must never be roused.

Itemcode : PG1131

Q21 As per the above passage, the differentiating characteristic of the Essay from other literary forms is

:

- (a) interest
- (b) conciseness
- (c) amusement
- (d) pleasure

Key: **B**

Itemcode : PG1132

Q22 Select a synonymous expression or word for "impels" from the given options

:

- (a) drives from within
- (b) pleads with
- (c) compels
- (d) forces

Key: **A**

Itemcode : PG1133

Q23 "Everything in an Essay must be subdued to that end". What is implied by the phrase "that end" here?

:

- (a) the final part
- (b) the happy ending
- (c) that objective
- (d) that conclusion

Key: **C**

Itemcode : PG1134

Q24 What is meant by "subdued" in the present context?

:

- (a) toned down
- (b) lowered
- (c) defeated
- (d) made secondary

Key: **A**

Itemcode : PG1135

Q25 Identify from the given options the correct antonyms of "interest, pleasure, indignation," in their respective order.

:

- (a) keenness, amusement, disdain
- (b) boredom, displeasure, contentment
- (c) enthusiasm, contentment, disdain
- (d) monotony, unhappiness, sympathy

Key: **B**

Itemcode : PG1061

Q26 Which of the following is NOT a variable used to describe meandering channels?

:

- (a) Radius of curvature
- (b) Width
- (c) Channel multiplicity
- (d) Wave length

Key: **C**

Itemcode : PG1062

Q27 An open system is _____

:

- (a) One that exchanges energy and matter with its surroundings
- (b) One that exchanges only energy with its surroundings
- (c) One that does not allow an exchange of energy
- (d) None of the above

Key: **A**

Itemcode : PG1063

Q28 Coalescence of series of alluvial fans in the piedmont zone forms _____

:

- (a) Hamada
- (b) Bajada
- (c) Pediment

(d) Pediplain
Key: **B**

Itemcode : **PG1064**

Q29 What is nivation?
:

- (a) Erosion by snow
- (b) Melting of snow
- (c) Accumulation of snow
- (d) None of the above

Key: **A**

Itemcode : **PG1065**

Q30 The epipelagic zone extends from
:

- (a) Surface to 50 m depth
- (b) Surface to 100m depth
- (c) Surface to 200m depth
- (d) Surface to 500 m depth

Key: **C**

Itemcode : **PG1066**

Q31 Which of the following muds is composed of potassium silicate
:

- (a) Red mud
- (b) Blue mud
- (c) Green mud
- (d) Coral mud

Key: **C**

Itemcode : **PG1067**

Q32 J.T Hack derived his perspectives of time independent model from the works of____
:

- (a) W. M Davis
- (b) L. C King
- (c) W Penck
- (d) G.K Gilbert

Key: **D**

Itemcode : **PG1068**

Q33 Nutritional eutrophication is associated with the bloom of the following
:

- (a) Reeds
- (b) Phytoplaktons
- (c) Fish
- (d) Fleas

Key: **B**

Itemcode : **PG1069**

Q34 Which of the following is the most recent warm event?
:

- (a) Bolling
- (b) Younger Dryas
- (c) Older Dryas
- (d) The Allerød

Key: **D**

Itemcode : **PG1070**

Q35 Chasms are formed in
:

- (a) Rocks with vertical strata
- (b) Rocks with inclined strata
- (c) Rocks with horizontal strata
- (d) Rocks without strata

Key: **D**

Itemcode : **PG1071**

Q36 According to Clement"s succession theory, which stage is characterized by initial growth of vegetation?
:

- (a) Nudation
- (b) Ecesis
- (c) Competition
- (d) Stabilization

Key: **B**

Itemcode : **PG1072**

Q37 _____ type of climax is the result of anthropogenic activities

:

- (a) Climatic
- (b) Edaphic
- (c) Disclimax
- (d) Sere

Key: **C**

Itemcode : **PG1073**

Q38 The branch of ecology that deals with the structure, development, and distribution of ecological communities is called _____ as _____

:

- (a) Ethnology
- (b) Autecology
- (c) Synecology
- (d) Genecology

Key: **C**

Itemcode : **PG1074**

Q39 Which of the following comes under a lotic ecosystem?

:

- (a) River
- (b) Lake
- (c) Pond
- (d) Wetland

Key: **A**

Itemcode : **PG1075**

Q40 The pyramids of numbers in a pond food chain is

:

- (a) Lateral
- (b) Inverted
- (c) Spindle shaped
- (d) Upright

Key: **D**

Itemcode : **PG1076**

Q41 Which biome is transitional between tropical rainforest and deserts?

:

- (a) Savanna
- (b) Deciduous
- (c) Taiga
- (d) Chaparral

Key: **A**

Itemcode : **PG1077**

Q42 What percentage of energy, on an average, is passed on to the next trophic level?

:

- (a) 10
- (b) 30
- (c) 60
- (d) 80

Key: **A**

Itemcode : **PG1078**

Q43 Minamata disease was caused by _____ pollution

:

- (a) Air
- (b) Water
- (c) Soil
- (d) Noise

Key: **B**

Itemcode : **PG1079**

Q44 Acid rain is mainly caused by _____

:

- (a) Ozone
- (b) Oxides of sulphur
- (c) Oxides of carbon
- (d) None of the above

Key: **B**

Itemcode : **PG1080**

Q45 Functional utility of resources is a function of

:

- (a) Space
- (b) Time

- (c) Both space and time
(d) None of the above

Key: **C**

Itemcode : **PG1081**

Q46 Consider the following statements and choose the correct sequence

- : 1. If anything or substance does not contain function ability or utility value, it is termed neutral stuff.
2. A neutral stuff remains neutral forever.

- (a) Both 1 and 2 are true
(b) 1 is true and 2 is false
(c) 1 is false and 2 is true
(d) Both 1 and 2 are false

Key: **B**

Itemcode : **PG1082**

Q47 Wealth "consists of all potentially exchangeable means of satisfying human wants". This statement is forwarded by_____

:

- (a) E.W. Zimmerman
(b) J. M Keynes
(c) Wesley C. Mitchell
(d) Hamilton

Key: **B**

Itemcode : **PG1083**

Q48 Donbas region is rich in

:

- (a) Copper
(b) Gold
(c) Silver
(d) Coal

Key: **D**

Itemcode : **PG1084**

Q49 Which of the following is an example of footloose industry?

:

- (a) Iron and steel
(b) Automobile
(c) Cement
(d) Cotton textile

Key: **D**

Itemcode : **PG1085**

Q50 _____ is the process of injecting liquid at high pressure into subterranean rocks, boreholes, etc. so as to force open existing fissures and extract oil or gas.

:

- (a) Drilling
(b) Fractional distillation
(c) Fracking
(d) Refining

Key: **C**

Itemcode : **PG1086**

Q51 Family planning was initiated in most countries after_____

:

- (a) Industrial revolution
(b) First world war
(c) Second world war
(d) Cold war

Key: **C**

Itemcode : **PG1087**

Q52 Janani Suraksha yojna was launched in

:

- (a) 2005
(b) 2010
(c) 2015
(d) 2018

Key: **A**

Itemcode : **PG1088**

Q53 Which of the following is not a Ramsar site in India?

:

- (a) Deepor bil
(b) Asthamudi lake
(c) Bhitorkanika mangroves
(d) Majuli island

Key: **D**

Itemcode : **PG1089**

Q54 Goal 14 of the Sustainable development goals is associated with :

- (a) Conservation of oceans, seas and marine resources
- (b) Reduce inequality
- (c) Water and sanitation for all
- (d) Climate change and its impact

Key: **A**

Itemcode : **PG1090**

Q55 The term Topophilia, meaning love of place, was popularized by :

- (a) Edward Relph
- (b) Yi fu Tuan
- (c) Tim Cresswell
- (d) Kevin Lynch

Key: **B**

Itemcode : **PG1091**

Q56 Who defined the scope of geography?

:

- (a) Kant
- (b) Humboldt
- (c) Varenius
- (d) Cluverious

Key: **A**

Itemcode : **PG1092**

Q57 ____ are considered to be the earliest geographers.

:

- (a) Chinese
- (b) Arabs
- (c) Greeks
- (d) Romans

Key: **C**

Itemcode : **PG1093**

Q58 Ratzel used the word _____ to describe physical geography as a factor that influences human activities in developing into a society

:

- (a) Geopolitics
- (b) Possibilism
- (c) Lebensraum
- (d) Raison d'etre

Key: **C**

Itemcode : **PG1094**

Q59 O. H .K Spate forwarded the concept of _____ in geography

:

- (a) Possibilism
- (b) Probabilism
- (c) Positivism
- (d) Pragmatism

Key: **B**

Itemcode : **PG1095**

Q60 Descriptive approach and process oriented approach are the two approached of ____

:

- (a) Welfare geography
- (b) Radical geography
- (c) Humanistic geography
- (d) Behavioral geography

Key: **A**

Itemcode : **PG1096**

Q61 The process of cyclogenesis produces ____

:

- (a) Cold front
- (b) Warm front
- (c) Stationary front
- (d) Occluded front

Key: **D**

Itemcode : **PG1097**

Q62 Consider the following statements and choose the correct option

: A. Urban heat islands have a mean temperature 8 to 10 degrees more than the surrounding rural areas

B. Many buildings found in urban areas have dark surfaces, thereby decreasing albedo and increased absorption of heat

- (a) Both A and B are true
 (b) A is true and B is false
 (c) A is false and B is true
 (d) Both A and B are false
 Key: **A**

Itemcode : **PG1098**

Q63 Consider the following statements and choose the correct sequence

- : A. Bay of Bengal branch of monsoon is more powerful than Arabian sea branch
 B. Entire Bay of Bengal branch of monsoon enters India while only a part of Arabian sea branch enters India

- (a) Both A and B are true
 (b) A is true and B is false
 (c) A is false and B is true
 (d) Both A and B are false
 Key: **D**

Itemcode : **PG1099**

Q64 Rossby waves are _____

:

- (a) Whirl movements of jet streams
 (b) Sub-tropical jet streams
 (c) Seasonal migration of jet streams
 (d) None of the above
 Key: **A**

Itemcode : **PG1100**

Q65 Consider the following statements and choose the correct option

- : A. According to Losch, industry will not necessarily be located within the least cost (transport cost and labour cost) location; rather it would locate in areas where maximum profit will occur.
 B. Like Weber's theory, 'profit maximization' theory of Losch is also universally applicable.

- (a) Both A and B are true
 (b) A is true and B is false
 (c) A is false and B is true
 (d) Both A and B are false
 Key: **B**

Itemcode : **PG1101**

Q66 Distance of geostationary satellite from Earth is about:

:

- (a) 32,000 km
 (b) 40,000 km
 (c) 36,000 km
 (d) 24,000 km
 Key: **C**

Itemcode : **PG1102**

Q67 Wein's displacement law gives wavelength at which emittance is maximum, related to the temperature of the ideal black body. Which of the following options is the correct equation? (Where T is temperature)

- (a) $\lambda_{\max} = 273.15 / T$
 (b) $\lambda_{\max} = 2623.85 / T$
 (c) $\lambda_{\max} = 2897 / T$
 (d) $\lambda_{\max} = 373.15 / T$
 Key: **C**

Itemcode : **PG1103**

Q68 For an ideal black body at temperature of 26.85 degree Celsius, what is the wavelength for which emittance is maximum?

- (a) 13.89 μm
 (b) 10.17 μm
 (c) 9.66 μm
 (d) 8.75 μm
 Key: **C**

Itemcode : **PG1104**

Q69 For GPS system, if you want to find your current location, with highest accuracy we need to correct for clock bias of the receiver, to that end how many number of minimum satellites are required?

- (a) 3
 (b) 5
 (c) 4
 (d) 6
 Key: **C**

Itemcode : **PG1105**

Q70 Which of the following statement is not true?

:

- (a) Remote sensing of the earth surface can happen only in the atmospheric window section of the electromagnetic spectrum
- (b) The wavelength range for microwave band starts from 1mm to 1m
- (c) LANDSAT-8 satellite has spatial resolution of 30m in visible region
- (d) Mie scattering occurs when the size of the particle is less than wavelength of the incident light

Key: **D**

Itemcode : **PG1106**

Q71 I've captured an image that has low contrast. To improve the image contrast I want to apply a contrast enhancement technique. Assume the range of Digital Number (DN) values in the captured scene varies from 0 to 256. If I wish to stretch the DN values between 125 to 256 more than 0 to 125, which of the following technique I should use?

- (a) Linear stretch
- (b) Nth root stretch
- (c) Logarithmic stretch
- (d) Inverse logarithmic stretch

Key: **D**

Itemcode : **PG1107**

Q72 NDVI (Normalized Difference Vegetation Index) is an image transformation technique, which is used to highlight the vegetation areas in the satellite image. Which of the following bands are used to calculate NDVI?

- (a) Infrared, green
- (b) Infrared, red, green
- (c) Green, red
- (d) Infrared, red

Key: **D**

Itemcode : **PG1108**

Q73 The Landsat-8, band5 (NIR) operates in the range of 0.85 to 0.88 μ m. Which of the following material would give the highest reflectance?

- (a) Vegetation
- (b) Dry soil
- (c) Wet soil
- (d) Water

Key: **A**

Itemcode : **PG1109**

Q74 Which of the following is an unsupervised image classification technique?

- (a) Parallelepiped
- (b) Maximum likelihood
- (c) K-means
- (d) Minimum distance to means

Key: **C**

Itemcode : **PG1110**

Q75 As polar satellite is revolving around a rotating earth, which of the following issues can arise during remote sensing?

- (a) Periodic line dropout in the captured image
- (b) Image distortion of the captured image
- (c) Random bad pixels of the captured image
- (d) Stripping of the captured image

Key: **B**