



CBRT - 2020 Question Paper Grid

Government of Goa

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Set Name

Subjects

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Assistant Agricultural Officer

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 : AA1293

Q1 : As per the above passage, the differentiating characteristic of the Essay from other literary forms is

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

Itemcode : AA1294

Q2 : Select a synonymous expression or word for "impels" from the given options

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

Itemcode : AA1295

Q3 : "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

Itemcode : AA1296

Q4 : What is meant by "subdued" in the present context?

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

Itemcode : AA1297

Q5 : 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

Passage:

The efficiency of human memory is amazing. Modern man remembers even telephone numbers and names of actors and actresses and cricketers and footballers and murderers. Thus, he can remember almost everything in his life. For example, a man does not forget a single item of his clothing when dressing. Similarly, no one forgets to shut the front door when leaving the house. In fact, the institution of family survives in modern cities because ordinary people have efficient memory. However, in some matters human memory works less than its usual perfection. For example, most people forget to take the medicine. But they don't forget to take meals and medicines are usually taken before or after or during meals. Psychologists say that we forget things because we wish to forget them. So people don't like medicines and that is why they forget them. In a lighter vein it can be deduced that the chemists make a lot of money because people forget to take medicines and their illness is not cured and they buy more and more medicines.

Itemcode : AA1298

Q6 : The statement, " In fact, the institution of family survives in modern cities because ordinary people have efficient memory", has been made to

- (a) praise families in modern cities
- (b) illustrate the efficiency of memory

- (c) mock families in modern villages
- (d) as a paradox with village life

Itemcode : **AA1299**

Q7 : From the options given below choose the odd one out

- (a) efficiency
- (b) competence
- (c) efficacy
- (d) efficient

Itemcode : **AA1300**

Q8 : " It can be deduced that the chemists make a lot of money because people forget to take medicines".
The above statement in the passage is

- (a) an exaggeration of facts
- (b) a distortion of facts
- (c) a humorous observation on forgetting
- (d) all the above

Itemcode : **AA1301**

Q9 : "However, in some matters human memory works less than its usual perfection."
In the context of the entire passage this statement is by far

- (a) an indictment of human memory
- (b) a compliment to human memory
- (c) a critique of forgetful people
- (d) an overstatement about memory

Itemcode : **AA1302**

Q10 From the options provided below, find the antonym for the word "amazing"

:

- (a) astounding
- (b) astonishing
- (c) commonplace
- (d) bewildering

Itemcode : **AA1282**

Q11 World Hepatitis day is observed on

:

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

Itemcode : **AA1283**

Q12 What is the name of Iran's new currency?

:

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

Itemcode : **AA1284**

Q13 Which state of India has made Rain water harvesting compulsory for each house?

:

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

Itemcode : **AA1285**

Q14 Filariasis is caused by

:

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

Itemcode : **AA1286**

Q15 Who was the first Indian Chief of Army Staff of the Indian Army?

:

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

Itemcode : **AA1287**

Q16 Heavy Water Project (Talcher) and Fertilizer plant (Paradeep) are famous industries of :

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

Itemcode : **AA1288**

Q17 Hamid Karzai was chosen president of Afghanistan in :

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

Itemcode : **AA1289**

Q18 Which country is larger production of crude oil in 2019? :

- (a) Saudi Arabia
- (b) USA
- (c) Russian Feration
- (d) Iraq

Itemcode : **AA1290**

Q19 Which of the following is Academic Institute Satellite? :

- (a) CARTOSAT-2B
- (b) KALPANA - 1
- (c) SATYABAMASAT
- (d) INSAT-2E

Itemcode : **AA1291**

Q20 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

Itemcode : **AA1123**

Q21 Which of the following words is a term? :

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

Itemcode : **AA1259**

Q22 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.

Itemcode : **AA1260**

Q23 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

Itemcode : **AA1261**

Q24 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.

Itemcode : AA1262

Q25 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

Itemcode : AA1263

Q26 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

Itemcode : AA1264

Q27 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) ecdba
- (c) bcdea
- (d) edbca

Itemcode : AA1265

Q28 Four sentences are given below, labeled (A), (B), (C) and (D). 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.

Itemcode : AA1266

Q29 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

Itemcode : AA1267

Q30 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.

- J. Potash was the name given to a potassium-rich substance that is obtained by soaking ashes in pots of water, the process that gave it its name.
- K. But today a different method is used to obtain the commodity.
- L. Water is pumped underground to dissolve buried potash ore before being pumped into the evaporation ponds.
- M. The water is dyed deep blue to absorb heat and evaporate quicker, leaving behind the potash and salts.

- (a) K and L
- (b) J and M
- (c) J, K and L
- (d) Only M

Itemcode : AA1268

Q31 Instructions for the following question: The given text is followed by four alternate summaries. Choose the option that best captures the essence of the text.

Tourism officials have closed a newly opened glass walkway in a central China tourism spot after cracks appeared in the

structure at the height of the week-long National Day holiday. The glass walkway in Henan province's Yuntaishan scenic area had been supporting dozens of tourists on Monday when the cracks appeared with a loud bang. A single pane of the 68m-long (223 foot) section shattered into coin-sized segments, according to footage on state broadcaster CCTV. The area's management bureau said on its microblog on Thursday that there was no threat to safety because only one of the three layers of glass that make up the walkway was damaged.

- (a) The newly opened glass walkway in China has suffered cracks but the cracks are not a threat to safety.
 (b) The tourism officials of China have closed the newly opened glass walkway due to certain cracks appearing in the structure. These cracks were not considered a threat to safety by the area's management bureau.
 (c) The newly opened glass walkway in China has suffered cracks and even though it is not a threat to safety, the walkway has been shut down by the tourism officials.
 (d) Despite the management bureau's assurance that the cracks in the newly opened glass walkway are superficial, the tourism officials of China have closed it.

Itemcode : **AA1269**

Q32 Santosh was walking to and fro on a railway platform. He was walking at a uniform speed of 4 km/ hr in a straight path : and he reverses his direction of motion at the end of fourth, seventh, ninth and thirteenth minutes, how far will he be from the starting point at the end of the tenth minute?

- (a) 2/15 km
 (b) 3/15 km
 (c) 4/15 km
 (d) 0 km

Itemcode : **AA1270**

Q33 Ram's watch is 10 min slow but he thinks it is 5 min fast. Rahim's watch is 5 min fast but he thinks it is 10 min slow. : Both plan to catch a flight, which is supposed to leave at 6 o'clock. If both reach the airport exactly at the expected departure based upon their understanding of their respective watches, which of the following is definitely true?

- (a) Rahim reached the airport 30 minutes before Ram
 (b) Both reached together at 6'o clock
 (c) Ram reached the airport 15 minutes before Rahim
 (d) Rahim reached the airport 15 minutes before Ram

Itemcode : **AA1271**

Q34 The germination of seeds is estimated by a probability of 0.8. What is the probability that out of five seeds sown at : least four will germinate?

- (a) 0.73728
 (b) 0.4096
 (c) 0.08192
 (d) None of these

Itemcode : **AA1272**

Q35 Mayank can do as much work in 2 days as Kulmohan can do in 3 days, and Kulmohan can do as much in 4 days as Vijay : in 5 days. Three of them working together can complete a piece of work in 20 days. How long would Kulmohan alone take to complete the work?

- (a) 80 days
 (b) 60 days
 (c) 46 days
 (d) 66 days

Itemcode : **AA1273**

Q36 A contractor, having 'n' trucks, did not have space in his garage for 8 of his trucks. He, therefore, increased the size of : his garage by 50% which gave him space for 8 more trucks than what he owned at that time. What is the value of 'n'?

- (a) 30
 (b) 40
 (c) 50
 (d) 60

Itemcode : **AA1274**

Q37 Simran was looking at a portrait. Pooja asked her "Whose picture are you looking at?" Simran replied "I do not have : brothers or sisters. This woman's mother is my mother's daughter." ("this woman's mother", means, the mother of the woman in the picture). Whose picture was Simran looking at?

- (a) Simran
 (b) Simran's mother
 (c) Simran's daughter
 (d) Insufficient data

Itemcode : **AA1275**

Q38 24 red socks and 24 blue socks are lying in a drawer in a dark room. What is the minimum number of socks I must take : out of the drawer which will guarantee that I have at least two socks of the same color?

- (a) 2
 (b) 3
 (c) 24
 (d) 25

Itemcode : **AA1276**

Q39 Answer the question using the following facts: In a kingdom there are three kinds of people: Vikrams, Vetals, and : Aams. The Vikrams always tells truth, the Vetals always tells lies, and the Aams sometimes lies and sometimes tell

truth.

We are given three people: A, B, C. One of them is a Vikram, one of them is Vetal and one of them is Aam (not necessarily in this order). They make the following statements:

A said: I am Aam.

B said: What A said is true.

C said: I am not Aam.

What are A, B and C?

- (a) Aam, Vikram, Vetal
- (b) Aam, Vetal, Vikram
- (c) Vikram, Vetal, Aam
- (d) Vetal, Aam, Vikram

Itemcode : **AA1277**

Q40 Answer the question using the following facts: Marriages in that kingdom is strange. Aam people marry only Aam people. Vikrams marry only Vetals and Vetals marry only Vikrams. We meet a married couple Mr. and Mrs. Z. They make the following statements:

Mr. Z: My wife is not Aam

Mrs Z: My husband is not Aam

What are Mr and Mrs A?

- (a) both are Aam
- (b) one of them is Vikram and the other Vetal
- (c) both are Vetals
- (d) Insufficient data

Itemcode : **AA1278**

Q41 Assume you own 25 horses and a racing track which can run at most 5 horses at a time. You do not have any watch or timers to find the running time of each horse. All you can do is run 5 or less horses at a time and find out who reached first, second, third etc. How many races should you run to find the second fastest horse among these 25 horses?

- (a) 6
- (b) 7
- (c) 8
- (d) 9

Itemcode : **AA1279**

Q42 Consider a circular path in a garden which can be covered in exactly 20 steps. Suppose you start walking from a fixed point P. First you take 32 steps forward, then 82 steps backwards, then, 66 steps forward, then 29 steps forward. How many steps will you have to take, and in which direction to reach point P?

- (a) 5 steps backward
- (b) 5 steps forward
- (c) 9 steps backward
- (d) 9 steps forward

Itemcode : **AA1280**

Q43 Cyclist Ramesh started cycling towards East at a constant speed of 120km/hr. At exactly same time, his friend Umesh who is located 50km West started cycling towards East on a service road parallel to the road taken by Ramesh at a constant speed of 80km/hr. How long after cycling did Umesh catch up with Ramesh?

- (a) 1 hour
- (b) 48 minutes
- (c) 1 hour 15 minutes
- (d) 1 hour 35 minutes

Itemcode : **AA1281**

Q44 A pen drive with a capacity of 32GB is three-quarters full. 25% of the saved data in the pen drive is deleted before saving another 10GB of new data to the device. The resultant result of data saved is what percentage of the capacity of the pen drive?

- (a) 70%
- (b) 75%
- (c) 87.5%
- (d) 90%

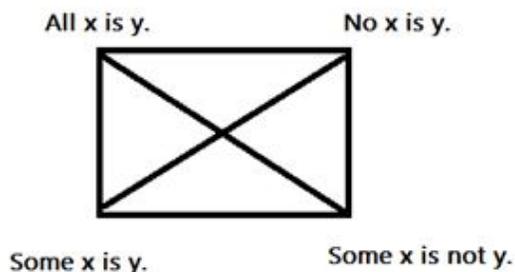
Itemcode : **AA1292**

Q45

:

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 \bar{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

Itemcode : AA1228

Q46 Total no. of nuclei involved in double fertilization in normal diploid plant is?

- (a) 3
- (b) 9
- (c) 5
- (d) 4

Itemcode : AA1229

Q47 In which direction, do the 5-3 phosphodiester bonds run, in Watson and Crick DNA model?

- (a) Parallel
- (b) Antiparallel
- (c) Forward
- (d) Alternate

Itemcode : AA1230

Q48 How many types of gametes will be formed in F1 in a trihybrid cross?

- (a) 27
- (b) 4
- (c) 8
- (d) 16

Itemcode : AA1231

Q49 Which of the following chemical is used for preparation of competent cell?

- (a) HCl
- (b) NaCl
- (c) CaCl₂
- (d) Glycine

Itemcode : AA1232

Q50 National Seed Policy, 2002 is based on the recommendation of

- (a) V. Kelkar Committee
- (b) M.V. Rao Committee
- (c) M. S. Swaminathan Committee
- (d) M. B. Shah Committee

Itemcode : AA1233

Q51 Tetrazolium test for seed viability and vigour was pioneered by

- (a) Norman Borlaug
- (b) Henry Luke Bolley
- (c) Gregor Mendel
- (d) George Lakon

Itemcode : AA1234

Q52 What is the scientific name of tea mosquito bug

- :
- (a) Helopeltis theivora
 - (b) Aedes albopictus
 - (c) Plasmodium vivax
 - (d) Camellia sinensis

Itemcode : AA1235

Q53 White muscardine disease is caused by

- :
- (a) Metarrhizium anisoplae
 - (b) Nosema sp.
 - (c) Beauveria bassiana
 - (d) Granulosis virus

Itemcode : AA1236

Q54 The causal organism of Sheath Blight of rice

- :
- (a) Xanthomonas oryzae
 - (b) Rhizoctonia solani
 - (c) Scerrotium oryzae
 - (d) Helminthosporium oryzae

Itemcode : AA1237

Q55 Exanthema in citrus is caused due to

- :
- (a) Deficiency of nitrogen
 - (b) Deficiency of potassium
 - (c) Deficiency of copper
 - (d) Deficiency of boron

Itemcode : AA1238

Q56 Red rot in sugarcane is caused by

- :
- (a) Colletotrichum falcatum
 - (b) Xanthomonas albilineans
 - (c) Herbaspirillum rubrisubalbicans
 - (d) Fusarium sacchari

Itemcode : AA1239

Q57 National Institute of Plant Health Management is situated in

- :
- (a) Delhi
 - (b) Coimbatore
 - (c) Hyderabad
 - (d) Puttur

Itemcode : AA1240

Q58 Goa dhan - 4 is developed for the salt affected coastal saline soils of Goa from the cross

- :
- (a) Jyothi X Jaya
 - (b) Jyothi X Korgut
 - (c) Jyothi X Sahyadri
 - (d) Jyothi X Munro

Itemcode : AA1241

Q59 As per ICAR -Central Coastal Agriculture Research Institute, Annual Report 2018-2019, no of fruits per plant of the Bacterial wilt resistant brinjal variety, Goa Brinjal- 4 is

- :
- (a) 7-8
 - (b) 10-11
 - (c) 12-13
 - (d) 15-16

Itemcode : AA1242

Q60 Which mango variety has been developed as a result of cross between Ratna and Alphonso varieties of the fruit

- :
- (a) Sindhu
 - (b) Kesar
 - (c) Neelum
 - (d) Amrapali

Itemcode : AA1243

Q61 Pendimethalin belongs to which group of herbicide

- :
- (a) 2-4, dinitrophenols

- (b) 2,6- dinitroanilines
- (c) Nitrophenyl ethers
- (d) Phenylureas

Itemcode : **AA1244**

Q62 Winter Queen is a variety of
:

- (a) Rose
- (b) Gladiolus
- (c) Gerbera
- (d) White Lily

Itemcode : **AA1245**

Q63 Chemical used to increase the vase life of cut flowers is
:

- (a) Cycocel
- (b) Gibberellin
- (c) 8-HQC
- (d) Glucose

Itemcode : **AA1246**

Q64 What is the chemical formula of slaked lime ?
:

- (a) CaCO₃
- (b) Ca(OH)₂
- (c) CaO
- (d) CaMg(CO₃)₂

Itemcode : **AA1247**

Q65 The conversion factor for calculating P from P₂O₅
:

- (a) P₂O₅ X 2.29
- (b) P₂O₅ X 0.44
- (c) P X 2.29
- (d) P₂O₅ X 0.44

Itemcode : **AA1248**

Q66 Which method is used for determination of available phosphorus in acid soil
:

- (a) Sergei
- (b) Olsen
- (c) Walkley and Black
- (d) Bray

Itemcode : **AA1249**

Q67 Cation exchange capacity is expressed as
:

- (a) Mole/litre
- (b) Meq/100g
- (c) Meq/lit
- (d) Per cent

Itemcode : **AA1250**

Q68 Which element is found highest in earth's crust
:

- (a) Oxygen
- (b) Silicon
- (c) Aluminium
- (d) Iron

Itemcode : **AA1251**

Q69 Rent theory of profit was propounded by
:

- (a) Adam Smith
- (b) C P Blacker
- (c) F A Walker
- (d) T A Malthus

Itemcode : **AA1252**

Q70 When TPP is maximum, the MPP will be
:

- (a) Minimum
- (b) Maximum
- (c) One
- (d) Zero

Itemcode : **AA1253**

Q71 Product are at the maximum for a farm business when output is at a level where
:

- (a) MC = AC
- (b) MR = AR
- (c) MR = AC
- (d) MC = MR

Itemcode : **AA1254**

Q72 Identify the startup venture directly associated with agriculture
:

- (a) Ninjacart
- (b) Delhivery
- (c) Udaan
- (d) Freshworks

Itemcode : **AA1255**

Q73 The 'Cone of experience' was developed by
:

- (a) David Berlo
- (b) Kurt Lewin
- (c) Anne Den Ban
- (d) Edgar Dale

Itemcode : **AA1256**

Q74 Sociometric method was developed by
:

- (a) Drucker
- (b) Fisher
- (c) Porter
- (d) Moreno

Itemcode : **AA1257**

Q75 Two factor theory of motivation was given by
:

- (a) Maslow
- (b) Marx
- (c) Herzberg
- (d) Weber