CBRT - 2020
Question Paper Grid

Government of Goa   09 October 2020

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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
Key: **B**

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
Key: **A**

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
Key: **C**

Itemcode : **AA1296**

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

(a) toned down
(b) lowered
(c) defeated
(d) made secondary
Key: **A**

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
Key: **B**

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
Key: **B**

Itemcode : **AA1299**

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

(a) efficiency
(b) competence
(c) efficacy
(d) efficient
Key: **C**

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
Key: **D**

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
Key: **B**

Itemcode : **AA1302**

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

(a) astounding
(b) astonishing
(c) commonplace
(d) bewildering
Key: **C**

Itemcode : **AA1282**

Q11 : World Hepatitis day is observed on

(a) 28th July
(b) 26th June
(c) 28th September
(d) 23rd October
Key: **A**

Itemcode : **AA1283**

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

(a) Reman
(b) Sian
(c) Toman
(d) Broon
Key: **C**

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
Key: **D**

Itemcode : **AA1285**

Q14 : Filaria is caused by

(a) Bacteria

(b) Mosquito
(c) Protozoa
(d) Virus
Key: **B**

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
Key: **A**

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
Key: **A**

Itemcode : **AA1288**

Q17 Hamid Karzai was chosen president of Afghanistan in
:

(a) 2000
(b) 2001
(c) 2002
(d) 2003
Key: **C**

Itemcode : **AA1289**

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

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

Itemcode : **AA1290**

Q19 Which of the following is Academic Institute Satellite?
:

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

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
Key: **C**

Itemcode : **AA1123**

Q21 Which of the following words is a term?
:

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

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.
Key: **C**

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
Key: **A**

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.
Key: **D**

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
Key: **C**

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
Key: **A**

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) ecbda
(c) bcdea
(d) edbca
Key: **B**

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.
Key: **D**

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
Key: **C**

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
Key: **A**

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.
Key: **B**

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
Key: **A**

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
Key: **A**

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
Key: **A**

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
Key: **D**

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
Key: **B**

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
Key: **C**

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
Key: **B**

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
Key: **D**

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
Key: **A**

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
Key: **C**

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
Key: **A**

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
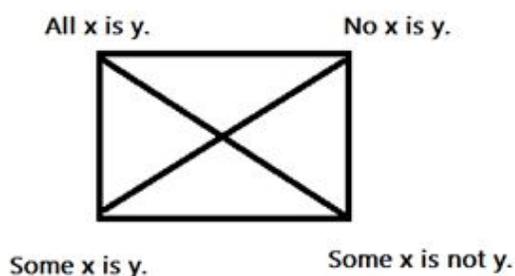(b) 48 minutes
(c) 1 hour 15 minutes
(d) 1 hour 35 minutes
Key: **C**

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%
Key: **C**

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 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 : **AA1228**

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

(a) 3
(b) 9
(c) 5
(d) 4
Key: **C**

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
Key: **B**

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
Key: **C**

Itemcode : **AA1231**

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

(a) HCl
(b) NaCl
(c) CaCl2
(d) Glycine
Key: **C**

Itemcode : **AA1232**

Q50 National Seed Policy, 2002 is based on the recommendtion of
:

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

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
Key: **D**

Itemcode : **AA1234**

Q52 What is the scientific name of tea mosquito bug
:

(a) Helopeltis theivora
(b) Aedes albopictus
(c) Plasmodium vivax
(d) Camellia sinensis
Key: **A**

Itemcode : **AA1235**

Q53 White muscardine disease is caused by
:

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

Itemcode : **AA1236**

Q54 The causal organism of Sheath Blight of rice
:

(a) Xanthomonas oryzae
(b) Rhizoctonia solani
(c) Screrotium oryzae
(d) Helminthosporium oryzae
Key: **B**

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
Key: **C**

Itemcode : **AA1238**

Q56 Red rot in sugarcane is caused by
:

(a) Colletotrichum falcatum
(b) Xanthomonas albilineans
(c) Herbaspirillum rubrisubalbicans
(d) Fusarium sacchari
Key: **A**

Itemcode : **AA1239**

Q57 National Institute of Plant Health Management is situated in
:

(a) Delhi
(b) Coimbatore

(c) Hyderabad
(d) Puttur
Key: **C**

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 Muno
Key: **B**

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
Key: **C**

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
Key: **A**

Itemcode : **AA1243**

Q61 Pendimethalin belongs to which group of herbicide
:

(a) 2-4, dinitrophenols
(b) 2,6- dinitroanilines
(c) Nitrophenyl ethers
(d) Phenylureas
Key: **B**

Itemcode : **AA1244**

Q62 Winter Queen is a variety of
:

(a) Rose
(b) Gladiolus
(c) Gerbera
(d) White Lily
Key: **C**

Itemcode : **AA1245**

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

(a) Cycocel
(b) Gibberellin
(c) 8-HQC
(d) Glucose
Key: **C**

Itemcode : **AA1246**

Q64 What is the chemical formula of slaked lime ?
:

(a) $CaCO_3$
(b) $Ca(OH)_2$
(c) CaO
(d) $CaMg(CO_3)_2$
Key: **B**

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
Key: **D**

Itemcode : **AA1248**

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

(a) Sergei
(b) Olsen
(c) Walkley and Black
(d) Bray
Key: **D**

Itemcode : **AA1249**

Q67 Cation exchange capacity is expressed as
:

(a) Mole/litre
(b) Meq/100g
(c) Meq/lit
(d) Per cent
Key: **B**

Itemcode : **AA1250**

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

(a) Oxygen
(b) Silicon
(c) Aluminium
(d) Iron
Key: **A**

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
Key: **C**

Itemcode : **AA1252**

Q70 When TPP is maximum, the MPP will be
:

(a) Minimum
(b) Maximum
(c) One
(d) Zero
Key: **D**

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
Key: **D**

Itemcode : **AA1254**

Q72 Identify the startup venture directly associated with agriculture
:

(a) Ninjacart
(b) Delhivery
(c) Udaan
(d) Freshworks
Key: **A**

Itemcode : **AA1255**

Q73 The 'Cone of experience' was developed by
:

(a) David Berlo
(b) Kurt Lewin
(c) Anne Den Ban
(d) Edgar Dale
Key: **D**

Itemcode : **AA1256**

Q74 Sociometric method was developed by
:

(a) Drucker
(b) Fisher
(c) Porter
(d) Moreno
Key: **D**

Itemcode : **AA1257**

Q75 Two factor theory of motivation was given by
:

(a) Maslow
(b) Marx
(c) Herzberg
(d) Weber
Key: **C**