



CBRT - 2019 Question Paper Grid

Government of Goa

25 August 2019

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Assistant Agricultural Officer

Passage:

Read the following passage and answer the questions below:

Progress in life depends a good deal on crossing one threshold after another. Some time ago, a man watched his little nephew trying to write his name. It was hardwork, very hardwork. The little boy had arrived at an effort threshold. Today he writes his name with comparative ease. No new threshold confronts him. This is the way with all of us. As soon as we cross one threshold, as soon as we conquer one difficulty, a new difficulty appears, or should appear. Some people make the mistake of steering clear of thresholds. Anything that requires genuine thinking and use of energy they avoid. They prefer to stay in a rut where thresholds are not met. Probably, they have been at their job a number of years. Things are easy for them. They make no effort to seek out new obstacles to overcome. Real progress stops under such circumstances.

Some middle-aged and elderly people greatly enrich their lives by continuing to cross thresholds. One man went into an entirely new business when he was past middle life and made success of it, De Morgan didn't start to write novels until he was past sixty. Psychologists have discovered that man can continue to learn throughout his life. And it is undoubtedly better to try and fail than not to try at all. There one can be placed in the category of the Swiss mountaineer of whom it was said. "He died climbing". When a new difficulty arises to obstruct your path, do not complain. Accept the challenge. Determine to cross this threshold as you have crossed numerous other thresholds in your past. In the words of a poet, do not rest but strive to pass from dream to grander dream.

Itemcode : AA1113

Q1 : What Obstructs real progress in life?

- (a) Remaining at one and the same post
- (b) Avoiding the thinking and energy
- (c) Shunning every work
- (d) Stopping education

Key: **A**

Itemcode : AA1114

Q2 : What does progress in life depend upon?

- (a) Good habits
- (b) Hardwork
- (c) Overcoming one difficulty after another
- (d) Spirit of service and Cooperation

Key: **C**

Itemcode : AA1115

Q3 : What does 'He died climbing' signify?

- (a) He dies when he was climbing the hill
- (b) He died before getting at the top
- (c) He strove hard till the last moment of life
- (d) He climbed the hill and then died

Key: **C**

Itemcode : AA1116

Q4 : What does 'to pass from dream to grander dream' mean?

- (a) Always having greater and greater aspiration in life.
- (b) Seeing one good dream and then greater aspiration in life.
- (c) Making plan after plan.
- (d) Seeing one dream after the other.

Key: **A**

Itemcode : AA1117

Q5 : What does De Morgan's life teach?

- (a) That it is futile to learn many things.
- (b) That one is never old in case he has vigour
- (c) That it is never too late to learn
- (d) That creative writing can be made even late in life

Key: **B**

Passage:

Read the following passage and answer the questions below:

There is a fairly universal sentiment that the use of nuclear weapon is clearly contrary to morality and that its production does not go far enough. These activities are not only opposed to morality but also to law and if the legal objection can be added to

the moral, the argument against the use and the manufacturer of these weapons will considerably be reinforced. Now the time is ripe to evaluate the responsibility of scientists who knowingly use their expertise for the construction of such weapons which has deleterious effect on mankind.

To this must be added the fact that more than 50 percent of the skilled scientific manpower in the world is now engaged in the armaments industry. How appropriate it is that all this valuable skill should be devoted to the manufacturer of weapons of death in a world of poverty is a question that must touch the scientific conscience.

A meeting of biologist on the Long term Worldwide Biological Consequences of Nuclear War added frightening dimensions to those forecasts. Its report suggested that the long biological effects resulting from climatic changes may at least be as serious as the immediate ones.

Sub freezing temperatures, low light levels and high dose of ionizing and ultraviolet radiations extending for many months, after a large scale nuclear war, could destroy the biological support systems of civilization, at least in the Northern Hemisphere. Productivity in natural and agricultural ecosystems could be severely restricted for a year or more. Post-war survivors would face starvation as well as freezing conditions in the dark and be exposed to near-lethal dose of radiation. If, as now seems possible, the Southern Hemisphere were affected also, global disruption of the biosphere could ensue. In any event, there would be severe consequences, even in the areas not affected directly because of the interdependence of the world economy. In either case the extinction of a large fraction of the earth's animals, plants and microorganisms seems possible. The population size of Homo sapiens conceivably could be reduced to pre-historic levels or below and extinction of the human species itself cannot be excluded.

Itemcode : **AA1118**

Q6 : The author's most important objective of writing the above passage seems to

- (a) Highlight the use of nuclear weapons as an effective population control measure
- (b) Illustrate the devastating effects of use of nuclear weapons on mankind
- (c) Duly highlight the supremacy of the nations which possess nuclear weapons
- (d) Summarise the long biological effects of use of nuclear weapons

Key: **B**

Itemcode : **AA1119**

Q7 : The scientists possessing expertise in manufacturing destructive weapons are

- (a) Very few in number
- (b) Irresponsible and incompetent
- (c) More than half of the total number
- (d) Engaged in the armaments industry against their desire

Key: **C**

Itemcode : **AA1120**

Q8 : According to the passage, the argument against the use and manufacture of nuclear weapons

- (a) Does not stand the test of legality
- (b) Possess legal strength although it does not have moral standing
- (c) Is acceptable only on moral grounds
- (d) Becomes stronger if legal and moral considerations are combined

Key: **D**

Itemcode : **AA1121**

Q9 : Which of the following best explains the word 'devoted' as used in the passage?

- (a) Dedicated for a good cause
- (b) Utilized for betterment
- (c) Abused for destruction
- (d) Underutilized

Key: **C**

Itemcode : **AA1122**

Q10 It appears from the passage that the use of nuclear weapons is considered against morality by

:

- (a) Only such of those nations who cannot afford to manufacture weapons
- (b) Almost all the nations of the world
- (c) Only the superpowers who can afford to manufacture and sell weapons
- (d) A minority group of scientists who have the necessary skill and competence

Key: **B**

Itemcode : **AA1103**

Q11 Which ministry has launched the scheme 'Indian Cyber Crime Coordination Centre (I4C)' for 2018-2020?

:

- (a) Ministry of Corporate Affairs
- (b) Ministry of Human Resource Development
- (c) Ministry of External Affairs
- (d) Ministry of Home Affairs

Key: **D**

Itemcode : **AA1104**

Q12 What is the name of the satellite that India is planning to send to study the sun's corona?

:

- (a) Aditya-L1
- (b) Viraj 1
- (c) Aditya-L2

(d) Viraj 2

Key: **A**

Itemcode : **AA1105**

Q13 India celebrates National Broadcasting day on _____

:

- (a) 23rd July
- (b) 22nd July
- (c) 21st July
- (d) 24th July

Key: **A**

Itemcode : **AA1106**

Q14 Which of the following is the 11th Biosphere Reserve from India to be included in the World Network of Biosphere Reserves (WNBR) of UNESCO?

- (a) Pachmarhi Biosphere Reserve
- (b) Great Nicobar Island Biosphere Reserve
- (c) Nanda Devi Biosphere Reserve
- (d) Khangchendzonga Biosphere Reserve

Key: **D**

Itemcode : **AA1107**

Q15 Which of the following countries hosted the FIFA 2019 women's world cup?

:

- (a) Russia
- (b) Uruguay
- (c) Argentina
- (d) France

Key: **D**

Itemcode : **AA1108**

Q16 The name of World's 1st Hindi-Speaking Robot is _____

:

- (a) Jayanti
- (b) Rashmi
- (c) Shakshi
- (d) Khatoon

Key: **B**

Itemcode : **AA1109**

Q17 Which of the following State received the first prize in the National Water Awards ceremony under the category best state in resource management?

- (a) Andhra Pradesh
- (b) Maharashtra
- (c) Gujarat
- (d) Rajasthan

Key: **B**

Itemcode : **AA1110**

Q18 The interactive game show named "Confetti" was launched by _____

:

- (a) Google
- (b) Facebook
- (c) Microsoft
- (d) Apple

Key: **B**

Itemcode : **AA1111**

Q19 Who is the chairman of ISRO?

:

- (a) A.S. Kiran siva
- (b) G.Madhavan Nair
- (c) Krishnaswamy Kasturirangan
- (d) Kailasavadivoo Sivan

Key: **D**

Itemcode : **AA1112**

Q20 Name the country which will host the ICC World Cup 2023?

:

- (a) India
- (b) NewZealand
- (c) Pakistan
- (d) Sri Lanka

Key: **A**

Itemcode : **AA1077**

Q21 A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?

- (a) 120 m
- (b) 240 m
- (c) 300 m
- (d) None of these

Key: **B**

Itemcode : **AA1078**

Q22 Look at this series: F2, __, D8, C16, B32, ... What number should fill the blank?

:

- (a) A16
- (b) G4
- (c) E4
- (d) E3

Key: **C**

Itemcode : **AA1079**

Q23 Look at this series: 83, 73, 93, 63, __, 93, 43, ... What number should fill the blank?

:

- (a) 33
- (b) 53
- (c) 73
- (d) 93

Key: **B**

Itemcode : **AA1080**

Q24 Look at this series: 0.15, 0.3, ____, 1.2, 2.4, ... What number should fill the blank?

:

- (a) 4.8
- (b) 0.006
- (c) 0.6
- (d) 0.9

Key: **C**

Itemcode : **AA1081**

Q25 Which word does NOT belong with the others?

:

- (a) peninsula
- (b) island
- (c) bay
- (d) cape

Key: **C**

Itemcode : **AA1082**

Q26 Which word does NOT belong with the others?

:

- (a) scythe
- (b) knife
- (c) pliers
- (d) saw

Key: **C**

Itemcode : **AA1083**

Q27 FINCH : BIRD

:

- (a) frog : toad
- (b) elephant : reptile
- (c) Dalmatian : dog
- (d) collie : marsupial

Key: **C**

Itemcode : **AA1084**

Q28 SKEIN : YARN

:

- (a) squeeze : lemon
- (b) fire : coal
- (c) ream : paper
- (d) tree : lumber

Key: **C**

Itemcode : **AA1085**

Q29 SLAPSTICK : LAUGHTER

:

- (a) fallacy : dismay
- (b) genre : mystery

- (c) satire : anger
 (d) horror : fear
 Key: **D**

Itemcode : **AA1086**

Q30 In the question below are given three statements followed by three conclusions numbered I, II and III, You have to take the given statements to be true even if they seem to be at variance from the commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

All fruits are vegetables. All pens are vegetables. All vegetables are rains.

Conclusions:

I All fruits are rains.

II All pens are rains.

III Some rains are vegetables.

- (a) All follow
 (b) Only I and II follow
 (c) Only II and III follow
 (d) Only I and III follow
 Key: **A**

Itemcode : **AA1087**

Q31 In the question below are given three statements followed by three conclusions numbered I, II and III, You have to take the given statements to be true even if they seem to be at variance from the commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statements:

Some saints are balls. All balls are bats. Some tigers are balls.

Conclusions:

I. Some bats are tigers.

II. Some saints are bats.

III. All bats are balls.

- (a) Only I and II follow
 (b) Only II follows
 (c) Only I and III follow
 (d) Only III follows
 Key: **A**

Itemcode : **AA1088**

Q32 The future of women in India is quite bright and let us hope that they will justify their abilities by rising to the occasion. Napoleon was right when he declared that by educating the women we can educate the whole nation. Because a country can never rise without the contribution of 50% of their population.

The passage best supports the statement that:

- (a) India is striving hard for the emancipation of women.
 (b) all women should be well educated.
 (c) a nation can progress only when women are given equal rights and opportunities as men.
 (d) women ought to be imparted full freedom to prove their worth and contribute to the progress of the nation.
 Key: **D**

Itemcode : **AA1089**

Q33 Exports and imports, a swelling favourable balance of trade, investments and bank-balances, are not an index or a balance sheet of national prosperity. Till the beginning of the Second World War, English exports were noticeably greater than what they are today. And yet England has greater national prosperity today than it ever had. Because the income of average Englishmen, working as field and factory labourers, clerks, policemen, petty shopkeepers and shop assistants, domestic workers and other low-paid workers, has gone up.

The passage best supports the statement that:

- (a) a country's economic standard can be best adjudged by per capital income.
 (b) a country's balance of trade is the main criteria of determining its economic prosperity.
 (c) a nation's economy strengthens with the increase in exports.
 (d) English trade has continually increased since the Second World War.
 Key: **A**

Itemcode : **AA1090**

Q34 Four defensive football players are chasing the opposing wide receiver, who has the ball. Calvin is directly behind the ball carrier. Jenkins and Burton are side by side behind Calvin. Zeller is behind Jenkins and Burton. Calvin tries for the tackle but misses and falls. Burton trips. Which defensive player tackles the receiver?

- (a) Burton
 (b) Zeller
 (c) Jenkins
 (d) Calvin
 Key: **C**

Itemcode : **AA1091**

Q35 The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?

- (a) Mr. Rhodes
 (b) Mr. Temple
 (c) Ms. West
 (d) Ms. Brody
 Key: **A**

Itemcode : **AA1092**

Q36 Look carefully for the pattern, and then choose which pair of numbers comes next.

:
 16 26 56 36 46 68 56

- (a) 80 66
 (b) 64 82
 (c) 66 80
 (d) 78 68
 Key: **C**

Itemcode : **AA1093**

Q37 Look at this series: 8, 43, 11, 41, __, 39, 17, ... What number should fill in the blank?

- :
 (a) 8
 (b) 14
 (c) 43
 (d) 44
 Key: **B**

Itemcode : **AA1094**

Q38 In these series, you will be looking at the letter pattern. Fill the blank end of the series

:
 QAR, RAS, SAT, TAU, _____

- (a) UAV
 (b) UAT
 (c) TAS
 (d) TAT
 Key: **A**

Itemcode : **AA1095**

Q39 A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Euro 1000 more than D, what is B's share?

- (a) Euro 500
 (b) Euro 1500
 (c) Euro 2000
 (d) None of these
 Key: **C**

Itemcode : **AA1096**

Q40 Here are some words translated from an artificial language.

:
 slar means jump
 slary means jumping
 slarend means jumped

Which word could mean "playing"?

- (a) clargslarend
 (b) clargy
 (c) ellaclarg
 (d) slarmont
 Key: **B**

Itemcode : **AA1097**

Q41 Find the related word to complete the analogy

:
 French : France : : Dutch : ?

- (a) Fiji
 (b) Sweden
 (c) Holland

(d) Norway

Key: **C**Itemcode : **AA1098****Q42** Complete the series 3, 7, 23, 95, ?

:

- (a) 62
- (b) 128
- (c) 479
- (d) 575

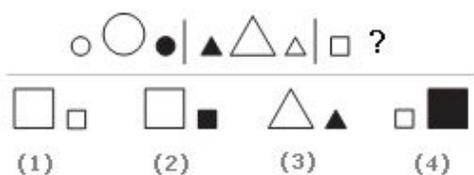
Key: **C**Itemcode : **AA1099****Q43** Complete the series

: 8, 22, 64, 190, 568, ?

- (a) 1702
- (b) 1315
- (c) 7134
- (d) 6445

Key: **A**Itemcode : **AA1100****Q44** Look carefully at the sequence of symbols to find the pattern. Select correct pattern.

:



- (a) 1
- (b) 2
- (c) 3
- (d) 4

Key: **B**Itemcode : **AA1101****Q45** Look carefully at the sequence of symbols to find the pattern. Select correct pattern

:



- (a) 1
- (b) 2
- (c) 3
- (d) 4

Key: **A**Itemcode : **AA1102****Q46** Polyploidy is induced through

:

- (a) Radiation
- (b) Mutagenic chemicals
- (c) Colchicine
- (d) Ethylene

Key: **C**Itemcode : **AA1124****Q47** Somatic hybridisation is achieved through

:

- (a) Grafting
- (b) Conjugation
- (c) Protoplast fusion
- (d) Recombinant DNA technology

Key: **C**Itemcode : **AA1125****Q48** The first empirical demonstration that plants reproduce sexually is credited to

:

- (a) Gregor Mendel
- (b) Rudolf Jakob Camerarius
- (c) Heinrich Anton de Bary
- (d) Sir Edwin John Butler

Key: **B**

Itemcode : **AA1126**

Q49 Which of these insects has elytra?

:

- (a) Housefly
- (b) Ladybug
- (c) Butterfly
- (d) Wasp

Key: **B**

Itemcode : **AA1127**

Q50 The science of study of honey bee is known as

:

- (a) Apiary
- (b) Apiculture
- (c) Melittology
- (d) Mycology

Key: **C**

Itemcode : **AA1128**

Q51 First bioinsecticide that developed commercial scale

:

- (a) quinine
- (b) sporeine
- (c) organophosphate
- (d) DDT

Key: **B**

Itemcode : **AA1129**

Q52 The blotter method of seed health testing detects primarily

:

- (a) Virus
- (b) Fungi
- (c) Bacteria
- (d) Nematodes

Key: **B**

Itemcode : **AA1130**

Q53 When two mycelium of opposite strains(+) and (-) come near one another, the mycelia produce small outgrowths called as

:

- (a) Sclerotia
- (b) Ascus
- (c) Progametangia
- (d) Metulae

Key: **C**

Itemcode : **AA1131**

Q54 Which of the following is non PCR based monocular marker?

:

- (a) SSRP
- (b) AFLP
- (c) RAPD
- (d) RFLP

Key: **D**

Itemcode : **AA1132**

Q55 Father of Phytobacteriology is

:

- (a) Edward Jenner
- (b) Robert Koch
- (c) Millardet
- (d) E.F.Smith

Key: **D**

Itemcode : **AA1133**

Q56 How many principals are there for plant distribution?

:

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

Key: **C**

Itemcode : **AA1134**

Q57 The growth regulator often used to control marketable heights of potted tulips, dahlias and lilies is

:

- (a) Benlate
(b) Florel
(c) Bonzi-1
(d) A-rest
Key: **D**

Itemcode : **AA1135**

Q58 Used to control mango malformation
:

- (a) NAA
(b) IAA
(c) IBA
(d) 2,4-D
Key: **A**

Itemcode : **AA1136**

Q59 Seedlessness in the Sindhu variety of mango is due to
:

- (a) Stimulative parthenocarpy
(b) Parthenogenesis
(c) Stenospermocarpy
(d) Vegetative parthenocarpy
Key: **C**

Itemcode : **AA1137**

Q60 Sucrose content in cane is
:

- (a) 3-4 percent
(b) 13-14 percent
(c) 23-24 percent
(d) 33-34 percent
Key: **B**

Itemcode : **AA1138**

Q61 Production of Kokum in kg of fruits/tree per year in Goa
:

- (a) 20-30
(b) 35-45
(c) 50-60
(d) 65-75
Key: **C**

Itemcode : **AA1139**

Q62 How many Biosphere reserves are present in India?
:

- (a) 11
(b) 14
(c) 22
(d) 27
Key: **B**

Itemcode : **AA1140**

Q63 In CA storage oxygen concentration is reduced from 21 percent to
:

- (a) 15 percent
(b) 10 percent
(c) 5 percent
(d) 3 percent
Key: **B**

Itemcode : **AA1141**

Q64 Acid rain is caused by
:

- (a) SO₂ and NO₂
(b) SO₂ and CO
(c) NH₃ and CO
(d) SO₂ and NH₃
Key: **A**

Itemcode : **AA1142**

Q65 Water blooms are formed by
:

- (a) Lemna
(b) Hydrilla
(c) Water hyacinth

(d) Planktonic algae

Key: **D**

Itemcode : **AA1143**

Q66 95 to 99.5 percent portion of plant tissues are made up of :

- (a) N, P and K
- (b) C, H and O
- (c) Ca, Mg and C
- (d) None of these

Key: **B**

Itemcode : **AA1144**

Q67 Saturated hydraulic conductivity is measured by :

- (a) Pycnometer
- (b) Tensiometer
- (c) Amoozemeter
- (d) Hydrometer

Key: **C**

Itemcode : **AA1145**

Q68 Which method is used for determination of available phosphorus in acid soil? :

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

Key: **A**

Itemcode : **AA1146**

Q69 Who has contributed the modern theory of interest? :

- (a) Knut Wiksell
- (b) Gunnar Myrdal
- (c) J. R. Hicks
- (d) Adam Smith

Key: **C**

Itemcode : **AA1147**

Q70 When total product is highest, marginal product will be :

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

Key: **C**

Itemcode : **AA1148**

Q71 The technique which protect the traders from extreme fall in price is known as :

- (a) Speculation
- (b) Future trading
- (c) Hedging
- (d) Inflation fencing

Key: **C**

Itemcode : **AA1149**

Q72 NATP was launched in :

- (a) 1992
- (b) 1995
- (c) 1998
- (d) 2000

Key: **C**

Itemcode : **AA1150**

Q73 The website created to facilitate correct, consistent and quick replies to the queries of farmers and capture all the details of their call is :

- (a) dackkms.gov.in
- (b) agriclinics.net
- (c) manage.gov.in
- (d) agricoop.nic.in

Key: **A**

Itemcode : **AA1151**

Q74 The first agri business incubator and accelerator in India
:

- (a) a-IDEA
 - (b) Startup Village
 - (c) IITM's Rural-TBI
 - (d) Society for Innovation and Entrepreneurship
- Key: **A**

Itemcode : **AA1152**

Q75 In the process of conducting research "Formulation of Hypothesis" is followed by
:

- (a) statement of objectives
 - (b) analysis of data
 - (c) selection of research tools
 - (d) collection of data
- Key: **C**