SSC MTS Previous Year Paper (Held on: 5 July 2022 Shift 1)

SSC Multi-Tasking Staff (MTS) • 2022 • 100 questions • 90 minutes • Answer key

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GENERAL INTELLIGENCE & REASONING

Q1. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

I. Some X are M.

II. All W are X.

Conclusions:

I. Some M are not W.

II. No W is M.

III. Some M are not X.

(a) None of the conclusions follow
(b) Only conclusion III follows
(c) Only conclusions II and III follow
(d) All the conclusions follow

Q2. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All sweets are food.

All food are healthy.

Conclusions:

I. All sweets are healthy.

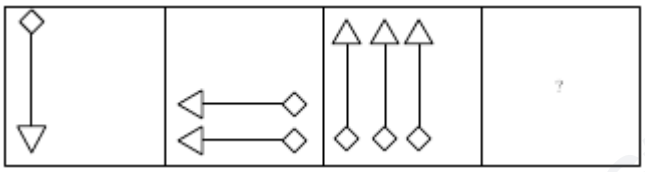
II. Some healthy are sweets.

(a) Both conclusions I and II follow
(b) Only conclusion I follows
(c) Neither conclusion I nor II follows
(d) Only conclusion II follows

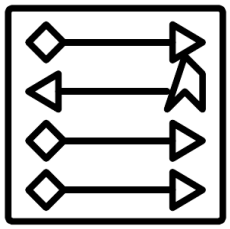
Q3. In a certain code language, 'RESTRICT' is written as 'CTRISTRE', 'STARTING' is written as 'NGTIARST' and 'MOUNTAIN' is written as 'INTAUNMO'. What is the code for the word 'ENVELOPE' in that code language?

(a) ELOOEENP
(b) PELOVEEN
(c) PEELOVEN
(d) EPOLEVNE

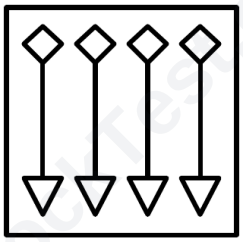
Q4. Select the figure from among the given options that can replace the question mark (?) in the following series.



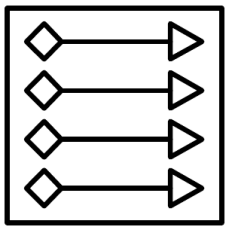
(a)



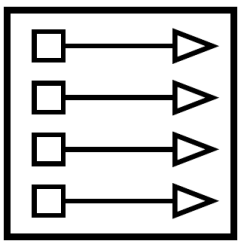
(b)



(c)



(d)



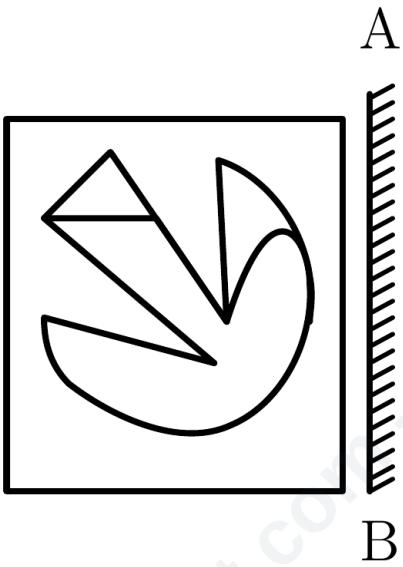
Q5. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

I4D : G9F :: L16S : J25U :: W64R : ?

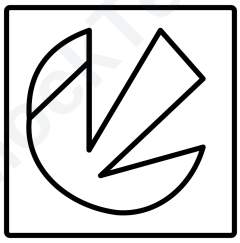
(a) T81U
(b) U81T
(c) U49T
(d) S49T

Q6. Select the correct mirror image of the given figure when the mirror is placed at the right side.

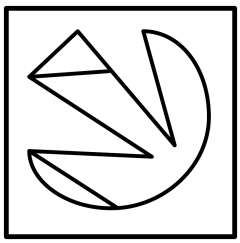
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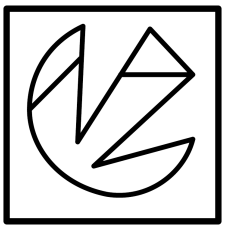
(a)



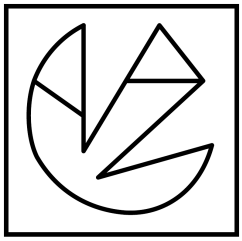
(b)



(c)

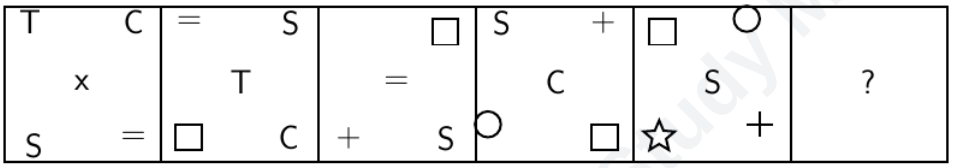


(d)

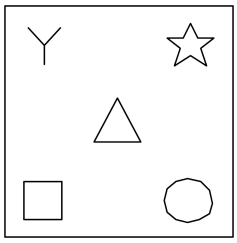


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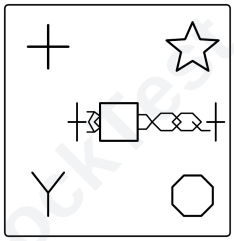
Q7. Select the figure from among the given options that can replace the question mark (?) in the following series.



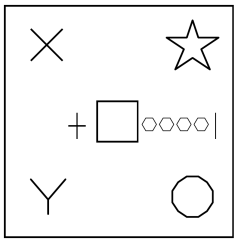
(a)



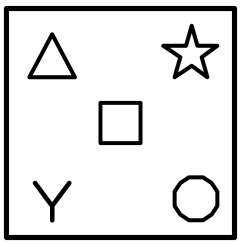
(b)



(c)



(d)



Q8. Select the option that is related to the sixth number in the same way as the first number is related to the second number and the third number is related to the fourth number.

144 : 225 :: 169 : 256 :: ? : 361

(a) 196
(b) 324
(c) 256
(d) 144

Q9. Select the option that related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

PG : VM :: AB : ?

(a) PH
(b) GH
(c) HI

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(d) FG

Q10. In a certain code language, 'FAINT' is coded as '2014916', and 'GRME' is coded as '513187'. How will 'POIL' be coded in that language?

(a) 1295116
(b) 1291516
(c) 1219516
(d) 1291561

Q11. By interchanging the given two numbers (not digits), which of the following equations will be correct?

44 and 19

I. 203 + 44 - 27 × 19 ÷ 11 = 114

II. 9 × 572 ÷ 19 - 44 + 4 = 120

(a) Neither I nor II
(b) Only I
(c) Only II
(d) Both I and II

Q12. Four males P1, P2, P3 and P4 are sitting in a row facing towards the north (not necessarily in the same order) and four females A1, A2, A3 and A4 are sitting in a row facing towards the face of these males (not necessarily in the same order). P1 and P4 sit at the ends. A3 and P2 are facing each other. A4 is second to the left of A3. P4 is facing A1. A1 and A4 are at the ends.

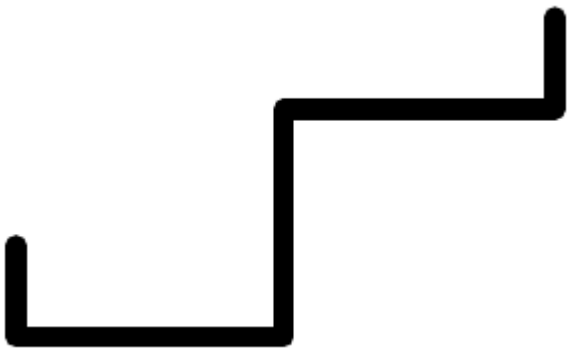
Which of the following statements is correct?

I. A4 is facing P1.

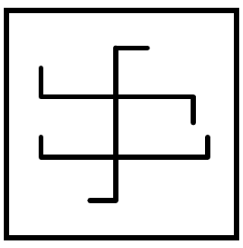
II. P4 is second to the left of that male who is facing A2.

(a) Only II
(b) Neither I nor II
(c) Only I
(d) Both I and II

Q13. Select the option in which the given figure is embedded (rotation is NOT allowed).

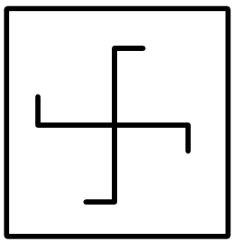


(a)

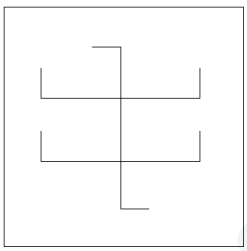


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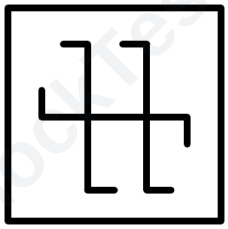
(b)



(c)



(d)



Q14. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

GF, KI, OL, SO, ?

(a) YS
(b) WR
(c) WS
(d) XR

Q15. Five people P, Q, R, S and T are sitting in a straight row, facing north. Q sits to the immediate left of S. Only three people sit between R and T. P sits to the immediate left of T. Who sits in the middle of the row?

(a) T
(b) P
(c) Q
(d) S

Q16. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



(a)



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(b)



(c)



(d)



Q17. Select the option in which the pair of letter-clusters share the same relationship as that shared by the given pair of letter-clusters.

TRACK : IAYPR :: ?

(a) PROUD : NPMSB
(b) STRAW : UYPRQ
(c) POLDY : WBJQN
(d) GAMES : UGOCE

Q18. Seven athletes A, B, C, D, E, F and G participate in a race. E is ahead of A but behind F. D is ahead of only two athlete. G is running last. C is running behind only two athlete. F is not the first.

Which athlete is running in the fourth position from behind?

(a) C
(b) E
(c) A
(d) D

Q19. In a certain code language, 'ACD' is coded as '12', and 'BEA' is coded as '10'. How will 'ECG' be coded in that language?

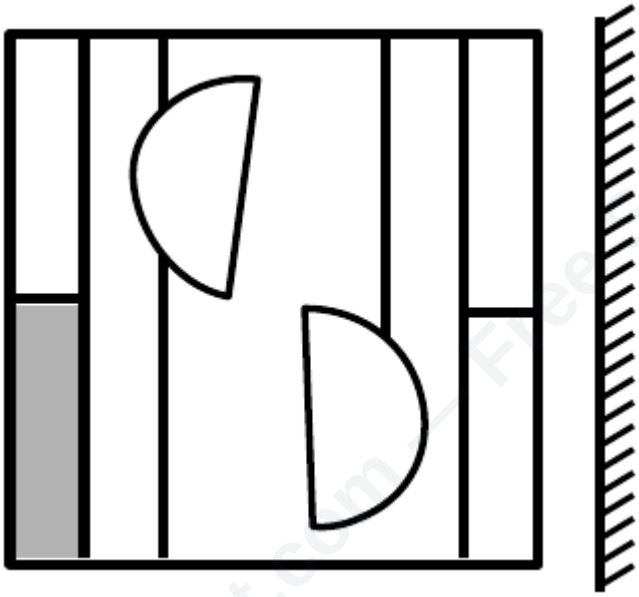
(a) 105
(b) 85
(c) 115
(d) 125

Q20. In a certain code language, 'COBBLESTONES' is written as 'BBOCTSELSENO', and 'SATISFACTORY' is written as 'ITASCAFSYROT'. How will 'TACHYCARDIAS' be written in that code language?

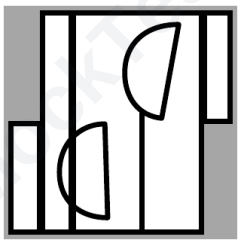
(a) HACTRACYSAID
(b) HCATRACYSAID
(c) HCATCARSAIDY
(d) YHCATCARSAID

Q21. Select the correct mirror image of given figure when the mirror is placed at the right side.

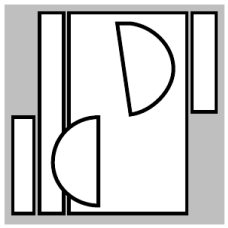
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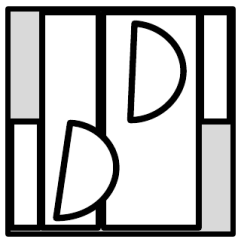
(a)



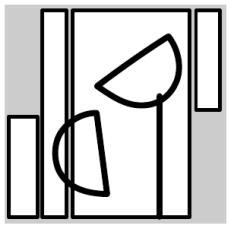
(b)



(c)



(d)



Q22. Select the numbers from among the given options that can replace the question marks (?) in the following series.

8, 9, 5, 16, 27, 25, 32, 81, 125, ? 243,?

(a) 325, 64

(b) 375, 64

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(c) 64, 375
(d) 64, 625

Q23. Select the option in which the numbers are related in the same way as are the numbers in the given sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 - Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(12, 8, 16)

(22, 10, 144)

(a) (28, 20, 36)
(b) (16, 10, 24)
(c) (24, 12, 121)
(d) (18, 8, 100)

Q24. Select the number from among the given options that can replace the question mark (?) in the following series.

17, 25, 34, 44, 55,?

(a) 68
(b) 67
(c) 69
(d) 66

Q25. After interchanging the given two numbers, what will be the value of the given expression?

20 and 10

10 + 30 - 5 × 20 ÷ 2

(a) 20
(b) 30
(c) 25
(d) 35

NUMERICAL APTITUDE

Q26. Arun bought an old computer and spent Rs. 110 on its repairs. He then sold it to Bhola at a profit of 20%. Bhola sold it to Chandan at a loss of 10%. Chandan finally sold it for Rs. 1,188 at a profit of 10%. How much did Arun buy the computer for?

(a) Rs. 640
(b) Rs. 1,050
(c) Rs. 890
(d) Rs. 750

Q27. Two successive discounts of 20% and 30% are given while selling an article. What is the ratio of the marked price of the article to its selling price?

(a) 25 : 14
(b) 21 : 10
(c) 24 : 13
(d) 27 : 16

Q28. The average of 21 consecutive natural numbers is 53. What is the value of the smallest of these 21 numbers?

(a) 43
(b) 44
(c) 41
(d) 42

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Q29. A boat takes 16 minutes and 24 minutes to cover a certain distance downstream and upstream, respectively. If the speed of the boat in still water is 15 km/h, find the speed of the stream.

(a) 5 km/h
(b) 2 km/h
(c) 3 km/h
(d) 2.5 km/h

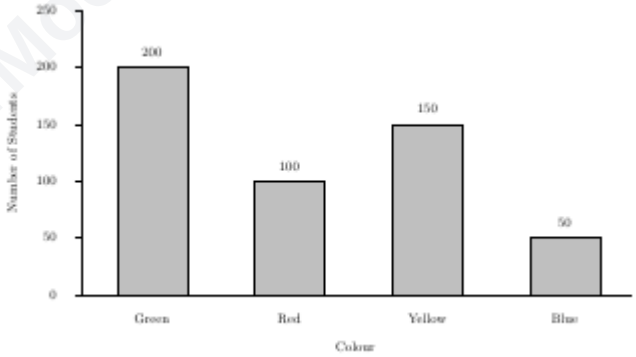
Q30. The ratio of the number of hens to the number of goats on farm A is 5 : 3 and that on farm B is 5 : 7. If the total number of pets in both farms is equal. What could be the ratio of the total number of hens to the total number of goats in farms A and B taken together?

(a) 3 : 2
(b) 1 : 2
(c) 25 : 23
(d) 7 : 11

Q31. If A = 1300 and B = 1450, then B is approximately what percentage more than A?

(a) 7.14%
(b) 9.86%
(c) 11.54%
(d) 13.46%

Q32. The following bar graph shows the number of students who like four different colours.



Find the difference between the number of students who like yellow and those who liked blue.

(a) 100
(b) 125
(c) 50
(d) 60

Q33. A goat is tied with a 10.5 m long-long rope to one corner of a plot which is in the shape of a equilateral triangle each side of which is 16 m long. Find the area that the goat can graze on.

(a) 62.25 m^2
(b) 53.5 m2
(c) 57.75 m2
(d) 51.75 m2

Q34. Simplify the following expression.

25 - (4 ÷ 2) + 11.5 + 9.5

(a) 46
(b) 44
(c) 45
(d) 47

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Q35. The population of a city in the year 2020 was 2,00,000. The rate of growth of population is 8% per annum. Find the population of that city in the year 2022.

(a) 2,33,280
(b) 2,29,484
(c) 2,21,785
(d) 2,12,890

Q36. A train running at the speed of 140/9 m/sec, crosses a pole in 27 sec. Find the length of the train.

(a) 320 m
(b) 120 m
(c) 420m
(d) 220 m

Q37. If the height and the radius of the base of a cone are both doubled, the volume of the cone becomes of its previous volume.

(a) 4 times
(b) 3 times
(c) 6 times
(d) 8 times

Q38. A man bought a chair for Rs. 580. At what price should he sell the chair so as to gain 25%

(a) Rs. 725
(b) Rs. 1,080
(c) Rs. 590
(d) Rs. 820

Q39. Select the number that will come in place of the question mark (?) in the following mathematical statement.

5/9 of 11/14 of 42% of 540 = $?^2$ - 45

(a) 17
(b) 13
(c) 9
(d) 12

Q40. What is the compound interest on Rs. 24,000 for 2 years at the rate of 10% per annum, if interest is compounded annually?

(a) Rs. 4,820
(b) Rs. 5,280
(c) Rs. 5, 040
(d) Rs. 6,080

Q41. A cube has sides that are 4 cm each, and the dimensions of a cuboid are 2 cm × 3 cm × 4 cm. Find the positive difference between the volume of the cube and that of the cuboid.

(a) 120 cm^3
(b) 40 cm^3
(c) 20 cm^3
(d) 60 cm^3

Q42. Find the LCM of the fractions 2/5, 3/7 and 4/9.

(a) 2/315
(b) 1/315
(c) 24
(d) 12

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Q43. The average of 5 numbers, arranged in a row, is 309. The average of the first two of these numbers is 431 and the average of the last two of these numbers is 231.5. What is the value of the number at the center of the row?

(a) 52
(b) 321
(c) 108
(d) 220

Q44. P can do 1/2 of a work in 10 days and Q can do 1/5 of the same work in 4 days. In how many days can both finish the work, working together?

(a) 15 days
(b) 14 days
(c) 10 days
(d) 5 days

Q45. If the cost of 10 books is Rs. 250, then find cost of 15 books.

(a) Rs. 215
(b) Rs.115
(c) Rs. 375
(d) Rs. 125

Q46. Two pipes, D and E, can fill a cistern in 26 and 78 hours, respectively, while working alone. If the two pipes are opened together, the time taken to fill the cistern is:

(a) 18 1/4 hours
(b) 19 1/4 hours
(c) 19 1/2 hours
(d) 18 1/3 hours

Q47. The following table shows the number of computers sold from five different stores in a city on five days of a given week.

Stores	Sunday	Monday	Tuesday	Wednesday	Thursday
P	67	80	49	70	90
Q	80	56	55	85	54
R	56	48	50	80	40
S	68	74	78	70	95
T	100	52	90	86	84

What is the ratio of the total number of computers sold from store S on Tuesday, Monday and Sunday taken together to that sold from store P on Tuesday, Wednesday and Thursday taken together?

(a) 20 : 19
(b) 11 : 19
(c) 11 : 15
(d) 13 : 11

Q48. A shopkeeper buys three products a, b, c and sells at 20%, 30%, 40% profit, respectively. What is ratio of the selling price of these products, if the ratio of their cost prices is 4 : 3 : 2?

(a) 34 : 54 : 12
(b) 48 : 39 : 28
(c) 56 : 26 : 21
(d) 24 : 39 : 14

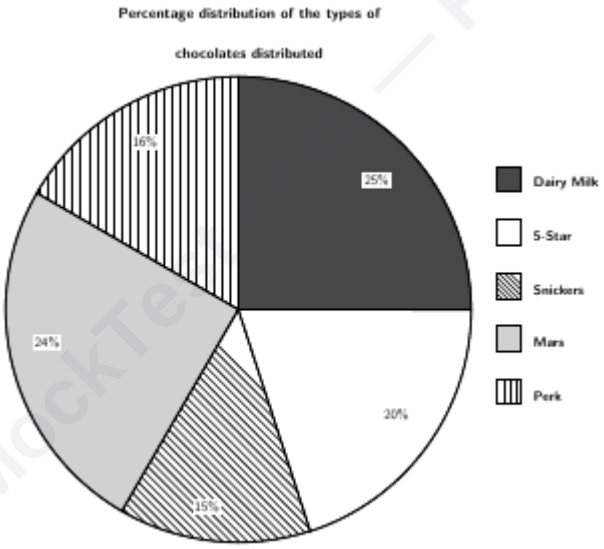
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Q49. The average of five terms is 40. if the first four terms are given as 50, 52, 35 and 46, find the fifth term.

(a) 18
(b) 17
(c) 16
(d) 15

Q50. Study the given pie-chart and answer the question that follows.

The pie-chart shows the percentage distribution of the number of different types of chocolates distributed by Akanksha to the residents of a children's home, as percentage of all the chocolates taken together, that were distributed by her to these residents.



The average number of chocolates of Diary Milk, 5-Star and Snickers taken together is equal to the number of chocolates distributed of which of the given types?

(a) 5-Star
(b) Perk
(c) Diary Milk
(d) Mars

GENERAL ENGLISH

Q51. Select the most appropriate meaning of the given idiom.

One's cup of tea

(a) One's perception about someone
(b) One's general principle
(c) One's hard-earned money
(d) One's chosen or preferred thing

Q52. Select the most appropriate ANTONYM of the bracketed word in the given sentence.

It is irrelevance, at least to me, whether the grant was (improvident) or not.

(a) tardy
(b) thrifty
(c) cautious
(d) hungry

Q53. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

When you are under significant stress, it is hardly to process details and nuances.

(a) significant stress, it is hardly
(b) to process details and nuances

(c) When you are under
(d) No error

Q54. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The reduced air pressure on airline flights can lessen the amount of oxygen in passenger's blood for twenty-five percent.

(a) The reduced air pressure on airline flights
(b) No error
(c) in passenger's blood for twenty-five percent
(d) can lessen the amount of oxygen

Q55. Select the most appropriate option to fill in the blank.

My teacher asked me to keep_____.

(a) quiet
(b) quite
(c) quit
(d) quaint

Q56. Select the most appropriate ANTONYM of the given word.

Perilous

(a) Verbose
(b) Unstable
(c) cruel
(d) Safe

Q57. Select the most appropriate option to fill in the blank.

He claims to be the _____ kid in the school.

(a) smartness
(b) smartest
(c) smarting
(d) smarter

Q58. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Many families are so poor to bear the cost of educating all their children.

(a) No improvement required
(b) too poor
(c) to poor
(d) such poor

Q59. Select the option that corrects the misspelt words in the given sentence.

Surely, he now has earned the respect 'mastr'.

(a) Surely, he now has earned the respect 'muster'.
(b) Surely, he now has earned the respect 'masterr'.
(c) Surely, he now has earned the respect 'masteer'.
(d) Surely, he now has earned the respect 'master'.

Q60. Select the option that can be used as a one-word substitute for the given group of words.

A book that contains information on various subjects

(a) Encyclopedia
(b) Manuscript
(c) Thesaurus
(d) Dictionary

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Q61. Select the most appropriate ANTONYM of the underlined word.

The more enlightened employers offer better terms.

(a) Civilised
(b) Educated
(c) Confounded
(d) Reasonable

Q62. Select the most appropriate synonym of the given word.

Hasty

(a) Expeditious
(b) Restricted
(c) Laidback
(d) Locked

Q63. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

The water at her place was cool and had a metallic taste.

(a) was cooling and have
(b) No improvement required
(c) were cool and have
(d) was coolest and has

Q64. Select the INCORRECTLY spelt word.

(a) Perterb
(b) Perceive
(c) Pigeon
(d) Passive

Q65. Select the most appropriate meaning of the given idiom.

Chew the scenery

(a) To understate
(b) To act overly emotional
(c) To beautify
(d) To mismanage

Q66. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Banning food and beverages is not desirable nor feasible in a civilized society.

(a) neither
(b) No improvement required
(c) none
(d) nor

Q67. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Scientists believe / that many animals have / a unique languages / of their own.

(a) that many animals have
(b) Scientists believe
(c) a unique languages
(d) of their own

Q68. Select the most appropriate synonym of the underlined word in the given sentence.

The plan is to demolish the kitchen area and build a new room.

(a) curtail
(b) forge

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(c) raze
(d) refurbish

Q69. Select the option that can be used as a one-word substitute for the given group of words.

A thing or substance that is liable to catch fire easily

(a) Inaudible
(b) Inflammable
(c) Incombustible
(d) Extinguishable

Q70. Select the option that can be used as a one-word substitute for the given group of words.

A group of guns or missile launchers operated together at one place

(a) Psaltery
(b) Skittery
(c) Cemetery
(d) Battery

Directions

In the following passage, some words have been divided. Read the passage carefully and select the most appropriate option to fill in each blank.

Deforestation in tropical regions can (1) the way water vapour is produced over the canopy, (2) causes reduced rainfall. A 2019 study published in the journal Ecohydrology showed that parts of the Amazon rainforest that (3) converted to agricultural land (4) higher soil and air temperatures, which could (5) drought conditions.

Q71. Select the most appropriate option to fill in blank number 1.

(a) hold
(b) attack
(c) affect
(d) effect

Q72. Select the most appropriate option to fill in blank number 2.

(a) whom
(b) which
(c) where
(d) who

Q73. Select the most appropriate option to fill in blank number 3.

(a) is
(b) were
(c) was
(d) has

Q74. Select the most appropriate option to fill in blank number 4.

(a) had
(b) did
(c) was
(d) has

Q75. Select the most appropriate option to fill in blank number 5.

(a) purify
(b) inflame
(c) provoke
(d) aggravate

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GENERAL AWARENESS

Q76. Which of the following states of India will host the 2023 Men's Hockey World Cup?

(a) Maharashtra
(b) Odisha
(c) Karnataka
(d) Uttar Pradesh

Q77. Who among the following personalities, known by the affectionate moniker 'Nightingale of Bollywood', passed away in February 2022?

(a) Lata Mangeshkar
(b) Saroj Khan
(c) Abhilasha Patil
(d) Tarla Joshi

Q78. Shiv Kumar Sharma is associated with which instrument?

(a) Sitar
(b) Santoor
(c) Nadaswaram
(d) Dholak

Q79. In which state of India is Konark dance festival celebrated?

(a) Karnataka
(b) Odisha
(c) Jharkhand
(d) Rajasthan

Q80. Which of the following states has two houses in its state legislature?

(a) Gujarat
(b) Maharashtra
(c) Rajasthan
(d) Jharkhand

Q81. Which of the following is the only large river in the Indian desert?

(a) Kosi River
(b) Betwa River
(c) Luni River
(d) Banas River

Q82. Which country won the 2018 FIH Men's Hockey World Cup?

(a) Belgium
(b) Australia
(c) The Netherlands
(d) Spain

Q83. Who is the author of the book 'Modi Government: New Surge of Communalism'?

(a) Pranab Mukherjee
(b) Jaswant Singh
(c) Sitaram Yechury
(d) M J Akbar

Q84. Aihole was the capital of the.

(a) Chalukyas
(b) Pallavas
(c) Pandayas

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(d) Cholas

Q85. Who among the following devised the policy 'Doctrine of Lapse'?

(a) Lord Dalhousie
(b) Lord Mountbatten
(c) Lord Cornwallis
(d) Lord Canning

Q86. Tankeswar Hazarika Borbayan received the Sangeet Natak Akademi Award for the year 2018 for his contribution to which classical dance of India?

(a) Kuchipudi
(b) Bharatanatyam
(c) Sattriya
(d) Kathak

Q87. Which Department of the Government of India launched 'One Health' pilot project in April 2022?

(a) Department of Consumer Affairs
(b) Department of Animal Husbandry and Dairying
(c) Department of Pharmaceuticals
(d) Department of Commerce

Q88. Which of the following is an example of artificial ecosystem?

(a) Garden
(b) Forest
(c) Lake
(d) Pond

Q89. Which of the following substances is insoluble in water?

(a) Salt
(b) Sugar
(c) Chalk Powder
(d) Milk

Q90. How many fundamental duties of Indian citizens are there in the Indian Constitution, as of March 2022?

(a) 5
(b) 11
(c) 9
(d) 3

Q91. At which Buddhist site of India did Gautama Buddha first preach the Dharma?

(a) KushiNagar
(b) Barabar Caves
(c) Bodh Gaya
(d) Sarnath

Q92. The treaty of Lahore was signed in 1846 between the British empire and.

(a) Maharaja Kharak Singh
(b) Maharani Chand Kaur
(c) Maharaja Ranjit Singh
(d) Maharaja Duleep Singh

Q93. Antyodaya Anna Yojana (AAY) was launched by the government to fight.

(a) unemployment
(b) poverty
(c) environmental degradation

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(d) population growth

Q94. What is the sex ratio (Approx) of India as per Census 2011?

(a) 940 females per 1000 males
(b) 740 females per 1000 males
(c) 640 females per 1000 males
(d) 840 females per 1000 males

Q95. Sam talks about an example of an igneous rock. Which of the following can it be?

(a) Sandstone
(b) Basalt
(c) Limestone
(d) Marble

Q96. The financial year in the Indian economy runs from.

(a) 1 January to 31 May
(b) 1 April to 30 June
(c) 1 June to 31 March
(d) 1 April to 31 March

Q97. Which of the following is the state of origin of the Odissi dance form?

(a) Andhra Pradesh
(b) Odisha
(c) Tamil Nadu
(d) Kerala

Q98. Which of the following trains of India is the fastest (as per trial runs), as of April 2022?

(a) Vande Bharat Express (Train 18)
(b) Maharashtra Sampark Kranti Express
(c) Howrah Rajdhani Express
(d) Howrah Ranchi Shatabdi Express

Q99. Ghiyasuddin Balban (1265-1286 AD), ruler of the Slave dynasty, took up the title of.

(a) Nur-al-Din (light of the faith)
(b) NurMahall (light of the palace)
(c) Zil-Ilahi (Shadow of God)
(d) JahanPanah (protector of the world)

Q100. What is the chemical formula of baking soda?

(a) $NaHCO_3$
(b) NH_4Cl
(c) Na_2CO_3
(d) $CaSO_4$

ANSWER KEY

1	a	2	a	3	a	4	a	5	a	6	a	7	a	8	a	9	a	10	a
11	a	12	a	13	a	14	a	15	a	16	a	17	a	18	a	19	a	20	a
21	a	22	a	23	a	24	a	25	a	26	a	27	a	28	a	29	a	30	a
31	a	32	a	33	a	34	a	35	a	36	a	37	a	38	a	39	a	40	a
41	a	42	a	43	a	44	a	45	a	46	a	47	a	48	a	49	a	50	a
51	a	52	a	53	a	54	a	55	a	56	a	57	a	58	a	59	a	60	a
61	a	62	a	63	a	64	a	65	a	66	a	67	a	68	a	69	a	70	a

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71	a	72	a	73	a	74	a	75	a	76	a	77	a	78	a	79	a	80	a
81	a	82	a	83	a	84	a	85	a	86	a	87	a	88	a	89	a	90	a
91	a	92	a	93	a	94	a	95	a	96	a	97	a	98	a	99	a	100	a

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