SSC MTS 2024 Official Paper (Held On: 18 Oct, 2024 Shift 2) (Previous Year Paper)

SSC Multi-Tasking Staff (MTS) • 2024 • 90 questions • 90 minutes • Answer key

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SESSION 1

Q1. In an office, the average salary of 22 staff members was Rs. 81,400. If the average salary of staff and the Vice Chairman was Rs. 89,600, then how much is the salary of the Vice Chairman (in Rs.)?

(a) 1,97,300
(b) 2,70,000
(c) 2,17,000
(d) 3,00,000

Q2. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 72 kg and 36 kg is:

(a) 52.6
(b) 51.6
(c) 50.6
(d) 49.6

Q3. Anand wanted to make a cylindrical kaleidoscope of length 30 cm and radius 7 cm. If he is using handmade sheets to make it, then how much sheet will be required for this?

(a) 1520 cm^2
(b) 1680 cm^2
(c) 1320 cm^2
(d) 1440 cm^2

Q4. A and B start running simultaneously, around a circular track of 1200 m, in the same direction, at a speed of 8 m/s and 12 m/s, respectively. A and B will meet at the starting point for the first time after:

(a) 80 s
(b) 150 s
(c) 300 s
(d) 100 s

Q5. A chef has two cans of acids and water mixture. He combines the contents of both cans in a beaker. The resulting mixture has half water and half acid. What is the quantity in which he mixed the contents of can 1 and can 2, given that can 2 has an acid-to-water ratio of 2 : 3 and can 1 has an acid-to-water ratio of 5 : 3?

(a) 2 : 3
(b) 4 : 5
(c) 4 : 7
(d) 3 : 7

Q6. P sold an article to Q at 11% profit and Q sold it to R at 11% loss. If R paid Rs. 19,758 for it, then at what price (in Rs.) was the article purchased by P?

(a) 19,750
(b) 19,500
(c) 22,500

(d) 20,000

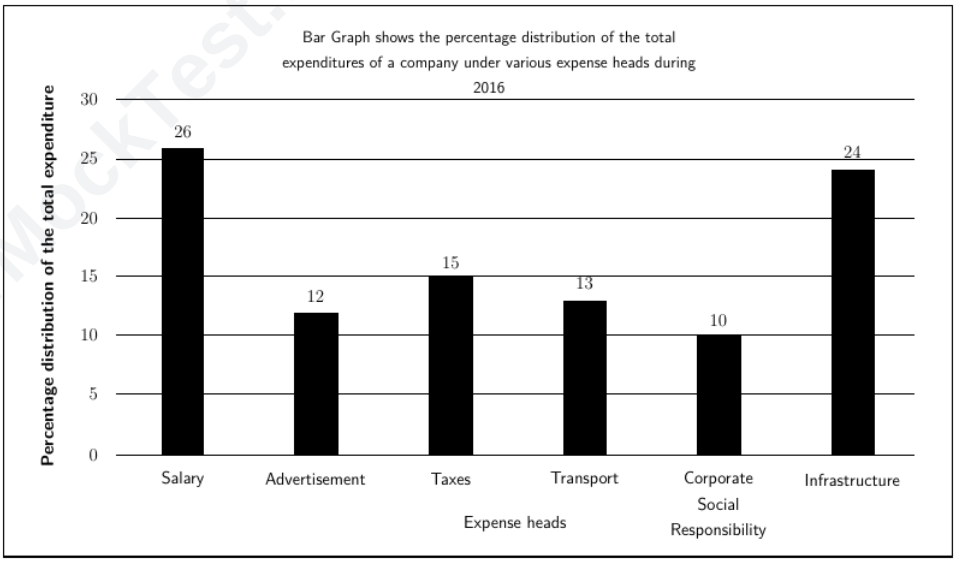
Q7. Find the simple interest (in Rs.) on Rs. 4000 as a sum borrowed at 4% per year rate of interest for 6 years.

(a) 920
(b) 900
(c) 960
(d) 1000

Q8. In an election, 750 votes were cast for the two contestants, Bharti and Manya. Bharti defeated Manya by 16% votes. If there were no invalid vote, then how many votes did Manya get?

(a) 335
(b) 430
(c) 315
(d) 120

Q9. The bar graph below shows the percentage distribution of the total expenditures of a company under various expense heads during 2016.



If the expenditure on advertisement is Rs. 3.6 crore, then what is the difference (in Rs. crore) between the expenditure on salary and that on corporate social responsibility?

(a) 4.8
(b) 4.4
(c) 3.7
(d) 3

Q10. In a class, there are 30 boys and 20 girls. The average score of boys in Physics is 92, whereas the average score of girls in Physics is 83. Find the average score of the whole class in Physics.

(a) 89.3
(b) 92.6
(c) 88.4
(d) 96.2

Q11. The capacity of an ice cream cone is 66 cm^3. What is the radius (in cm) of its base if its height is 7 cm (Use $\pi = 22/7$)

(a) 3.5
(b) 6
(c) 3
(d) 7

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Q12. Study the given table carefully and answer the question that follows.

The given table provides the number of candidates and percentage of female candidates who applied for a course in different colleges (A, B, C and D).

College	No. of candidates applied for a course	Percentage of female candidates applied for a course
A	540	30
B	360	50
C	684	80
D	724	50

Find the difference between the number of male and female candidates who applied to College A.

(a) 216
(b) 265
(c) 162
(d) 378

Q13. Find the HCF of 36 and 84.

(a) 6
(b) 4
(c) 18
(d) 12

Q14. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 3% per year rate of interest for 6 years.

(a) 480
(b) 500
(c) 580
(d) 540

Q15. A thief is running away on a straight road on a bike moving at the speed of 28 m/s. A policeman chases him in a car moving at the speed of 30 m/s. If the instantaneous separation of the bike from the car is 400 m, how long will it take for the policeman to catch the thief?

(a) 200 seconds
(b) 100 seconds
(c) 150 seconds
(d) 300 seconds

Q16. The simple interest on a sum of Rs. 4,200 at the end of 3 years is Rs. 756. What will be the simple interest (inRs.) on Rs. 5,400 at the same rate and for the same time period?

(a) 972
(b) 987
(c) 998
(d) 980

Q17. A sold an article to B at 40% profit and B sold it to C at 15% profit. If C paid Rs. 4,914 for the article, how much (in Rs. , rounded off to the nearest integer) did A pay for it?

(a) 2,576
(b) 3,520
(c) 3,250
(d) 3,052

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Q18. A shopkeeper offers buy three, get one free; what is the percentage discount being offered by the shopkeeper in this scheme?

(a) 33.33%
(b) 30%
(c) 20%
(d) 25%

Q19. In a lead pipe 4.2 m long, the external diameter is 5.4 cm and the thickness of the pipe is 3 mm. Find the weight of the pipe, if 1 cm^3 of lead mass is 25 grams. (Use $\pi = 22/7$)

(a) 50.49 kg
(b) 45.09 kg
(c) 58.40 kg
(d) 61.60 kg

Q20. In a school sports camp, there is food provision for 200 students for 30 days. If 50 more persons join the sports camp on the 2nd day, for how many days will the provision last?

(a) 24
(b) 25
(c) 28
(d) 20

Q21. 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:

Some bulls are rocks.

Some rocks are stones.

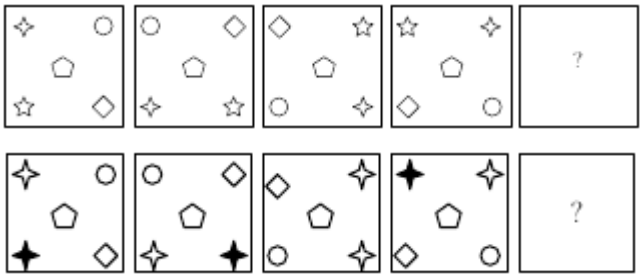
Conclusions:

(I): Some bulls are stones.

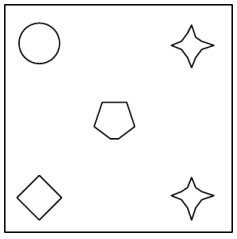
(II): All stones are rocks.

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

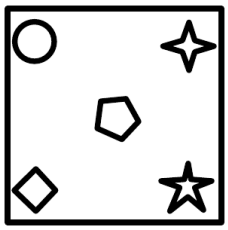
Q22. Select the figure from the given options, which when put in place of the question mark (?) will logically complete the series.



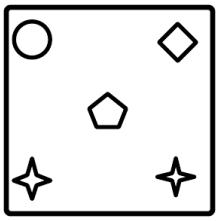
(a)

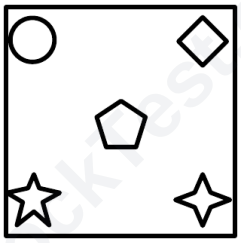


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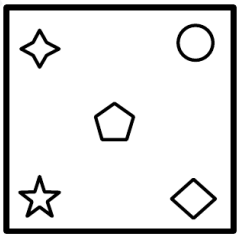


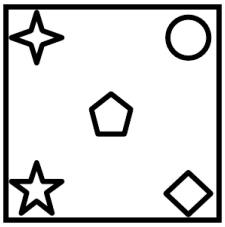
(b)



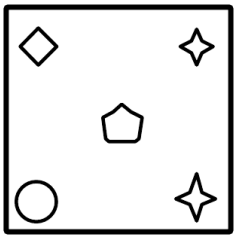


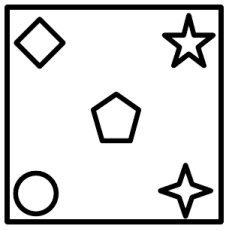
(c)





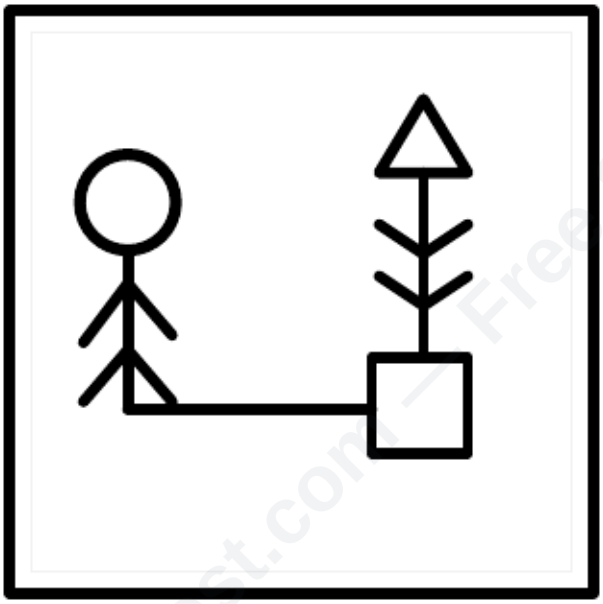
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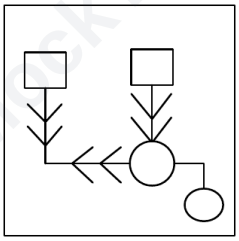


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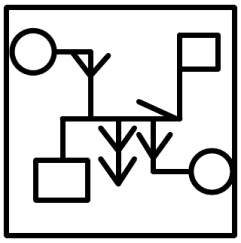
Q23. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



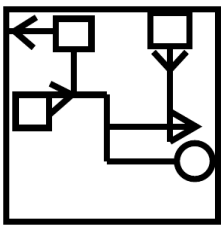
(a)



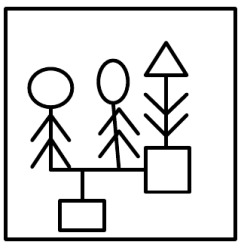
(b)



(c)



(d)



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Q24. FLRX is related to KQWC in a certain way based on the English alphabetical order. In the same way, GMSY is related to LRXD. To which of the following is HNTZ related, following the same logic?

(a) MDSY
(b) MSYD
(c) MSYW
(d) MSYE

Q25. What should come in place of the question mark (?) in the given series?

3, ?, 13, 19, 23, 28, 33

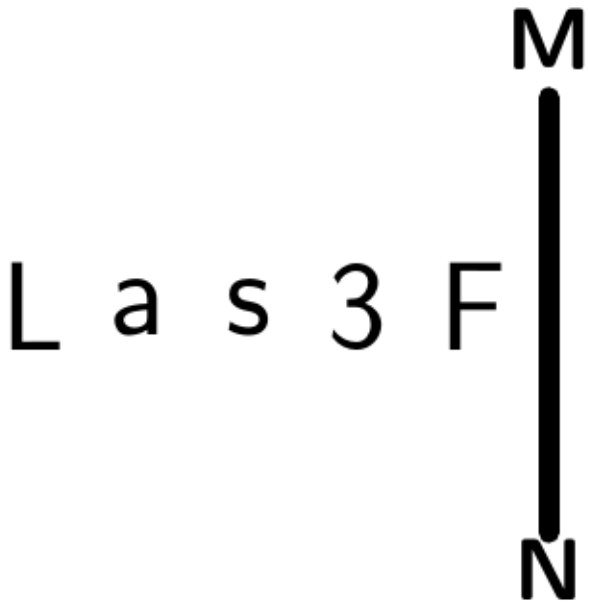
(a) 8
(b) 5
(c) 7
(d) 9

Q26. In a certain code,

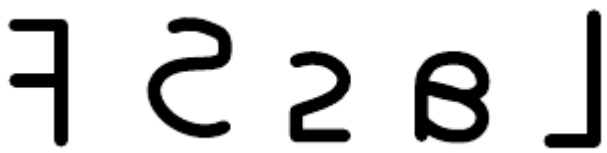
'pen pencil eraser' is coded as 'dy ph mt',
'pencil box crayon' is coded as 'lp ph st' and
'box pen board' is coded as 'st bq dy'.
All the codes are two-letter codes only.
What is 'board' coded as?

(a) lp
(b) st
(c) dy
(d) bq

Q27. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



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(b)



(c)



(d)



Q28. 37 is related to 89 following a certain logic. Following the same logic, 43 is related to 101.

To which of the following is 28 related, following the same logic?(NOTE: Operations should be performed on the whole numbers, without breaking down the numbersinto its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1and 3 is not allowed)

(a) 51
(b) 71
(c) 55
(d) 78

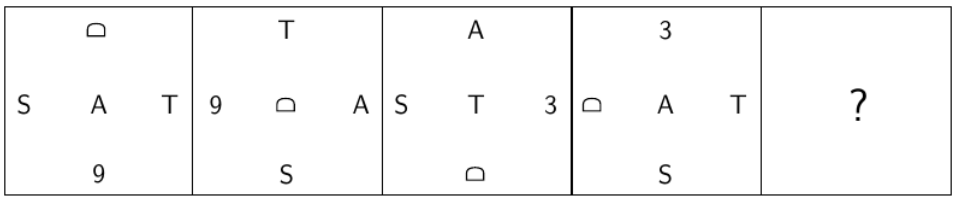
Q29. In a certain code language, 'RENT' is coded as '1957' and 'GRIM' is coded as '2469'. What is the code for 'R' in the given code language?

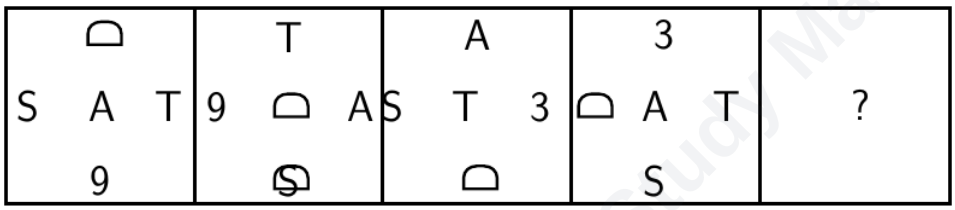
(a) 6
(b) 4
(c) 9
(d) 1

Q30. In a certain code language, 'derive the formula' is written as 'te ro da' and 'formula to win' is written as 'ka wo ro'. How will 'formula' be written in the given language?

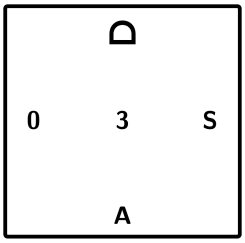
(a) wo
(b) ro
(c) le
(d) da

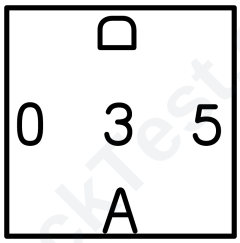
Q31. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.



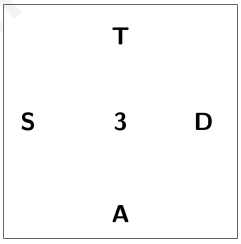


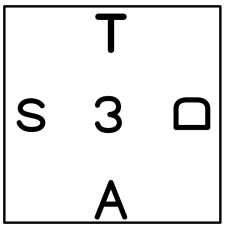
(a)



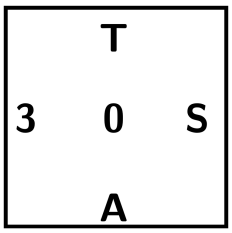


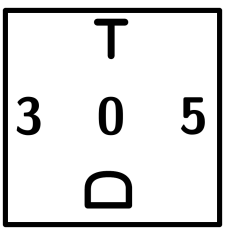
(b)





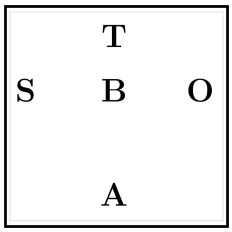
(c)

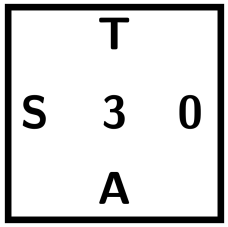




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(d)





Q32. In a certain code language, 'GAME' is coded as '8536' and 'MEAN' is coded as '5983'. What is the code for 'N' in that language?

(a) 3
(b) 5
(c) 9
(d) 8

Q33. 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 follows from the statements.

Statements:

Some trees are blue.

All blue is green.

Conclusions:

(I) All trees are blue.

(II) Some trees are green.

(a) Neither conclusion (I) not (II) follows
(b) Both conclusions (I) and (II) follows
(c) Only conclusion (I) follows
(d) Only conclusion (II) follows

Q34. R, S, T, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order). Only three people are sitting between E and T when counted from the right of E. Only two people are sitting between R and G. S is sitting to the immediate left of D. Only two people are sitting between T and R. How many people are sitting between F and S when counted from the left of F?

(a) Three
(b) One
(c) Two
(d) Four

Q35. What will come in the place of '?' in the following equation, if '+' and '×' are interchanged and '-' and '÷' are interchanged?

41 × 1 + 390 - 10 ÷ 15 = ?

(a) 75
(b) 73
(c) 65
(d) 55

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Q36. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

OSM, LPJ, IMG, FJD, ?

(a) CAG
(b) CGA
(c) BAG
(d) BGA

Q37. TGKP is related to QDHM in a certain way based on the English alphabetical order. In the same way, XEWJ is related to UYTI. To which of the following is VEAH related, following the same logic?

(a) RXAF
(b) SBXE
(c) SBYF
(d) RAYE

Q38. What will come in the place of the question mark ('?')in the following equation, if '+' and '×' are interchanged and '÷' and '–' are interchanged

19 × 7 ÷ 8 × 306 - 17 = ?

(a) 32
(b) 44
(c) 41
(d) 36

Q39. P, Q, R, S, T, U and V are sitting around a circular table facing out to the centre (but not necessarily in the same order). P is sitting second to the left of U. R is sitting third to the right of S. S is an immediate neighbour of V. V is sitting to the immediate left of P. T is not an immediate neighbour of U.

How many people are sitting between P and Q when counted from the right of P?

(a) One
(b) Four
(c) Three
(d) Two

Q40. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. Eg. 1-3 – Operations on 13 such as adding/subtracting/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.)

(4, 9, 26)

(2, 3, 10)

(a) (13, 2, 30)
(b) (30, 5, 49)
(c) (5, 3, 26)
(d) (23, 1, 56)

SESSION 2

Q41. In the year of the coronation of Akbar, who among the following was designated as the Wakil of the Mughal kingdom with the title of 'Khan-i-Khanan'?

(a) Bairam Khan
(b) Munim Khan
(c) Hakim Mirza
(d) Abdur Rahim

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Q42. Foods containing fats and carbohydrates are also called _____.

(a) fermented foods
(b) energy giving foods
(c) roughage
(d) body building foods

Q43. Which of the following is a precious mineral?

(a) Hematite
(b) Mica
(c) Bauxite
(d) Platinum

Q44. The Betul, Hoshangabad and Chhindwara districts of Madhya Pradesh is a part of which of the following Biosphere Reserves?

(a) Manas
(b) Seshachalam
(c) Agasthyamalai
(d) Pachmarhi

Q45. Which of the following is the oldest dated forts in India, as first mentioned in Alexander the Great's war records, bringing it to the 4^(th) century BCE?

(a) Kangra Fort
(b) Gwalior Fort
(c) Kumbhalgarh Fort
(d) Mehrangarh Fort

Q46. Which of the following is observed on the birthday of Dr. Sarvepalli Radhakrishnan?

(a) Constitution Day
(b) Student's Day
(c) Engineer's Day
(d) Teacher's Day

Q47. The Kalidas Samman award is presented by which of the following governments?

(a) Manipur
(b) Madhya Pradesh
(c) Odisha
(d) Tamil Nadu

Q48. In November 2023, who was appointed as the President-elect of the Federation of Indian Chambers of Commerce and Industry (FICCI)?

(a) Suraj Mehta
(b) N. Chandrasekaran
(c) Adi Godrej
(d) Anish Shah

Q49. Which of the following programmes is taken up by the Government of India for improvement of female literacy rates in India?

(a) Beti Bachao, Beti Padhao
(b) Beti Shikshan, Beti Bachao
(c) Beti Sikhao, Beti Padhao
(d) Beti Jagaron, Beti Padhao

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Q50. As per the National Multidimensional Poverty Index 2021, which of the following groups of states is the poorest?

(a) Punjab, Himachal Pradesh, Uttarakhand
(b) Kerala, Karnataka, Tamil Nadu
(c) Bihar, Uttar Pradesh, Jharkhand
(d) Gujarat, Maharashtra, Telangana

Q51. Which folk dance has its roots in Maharashtra?

(a) Garba
(b) Dandiya
(c) Bihu
(d) Lavani

Q52. Ravikirti was the court poet of which ruler?

(a) Rajraja
(b) Harshavardhana
(c) Danddurga
(d) Pulakeshin II

Q53. The basic structure of the Indian Constitution stands on the Government of India Act, _____.

(a) 1950
(b) 1942
(c) 1935
(d) 1949

Q54. Which of the following is an example of anaerobic activity?

(a) Jumping
(b) Skipping
(c) Walking
(d) Swimming

Q55. Select the correct order of processes used for water purification in waterworks.

1. Filtration
2. Chlorination
3. Suspended impurity sedimentation
4. Solid impurity sedimentation

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

Q56. Mysore Brothers are known for playing which musical instrument?

(a) Guitar
(b) Flute
(c) Mandolin
(d) Violin

Q57. In which of the places was Arya Samaj founded?

(a) Madras
(b) Lahore
(c) Calcutta
(d) Bombay

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Q58. Waiting for a Visa' is the autobiography of:

(a) Shyama Prasad Mukherjee
(b) Bhimrao Ambedkar
(c) Jawaharlal Nehru
(d) Vallabhbhai Patel

Q59. What is the standard length of a cricket pitch?

(a) 22 yards
(b) 24 yards
(c) 18 yards
(d) 20 yards

Q60. Which of the following groups of ports are located on the bank of the Bay of Bengal?

(a) Haldia and Kandla
(b) Tuticorin and Cochin
(c) Haldia and Paradip
(d) Paradip and New Mangalore

Q61. What is the name of the scheme launched by the Government of India in 2023 to effectively resolve pending contractual disputes?

(a) Vivad se Adhar II
(b) Vivad se Janadhar I
(c) Vivad se Vishwas II
(d) Vivad se Vishwas I

Q62. Shuddhi movement was initiated by which of the following organisations?

(a) Parmahansa Mandali
(b) Arya Samaj
(c) Satya Shodhak Samaj
(d) Ramakrishna Mission

Q63. Which financial products are commonly offered by Microfinance Institutions in India?

(a) Complex investment options
(b) Savings, credit and insurance services tailored for low-income individuals
(c) Specialized services for multinational corporations
(d) Exclusive services for high-income individuals

Q64. Which edition of the ODI Cricket World Cup was held in India in 2023?

(a) 16^(th)
(b) 13^(th)
(c) 14^(th)
(d) 15^(th)

Q65. Which of the following Articles of the Constitution has a provision that 'all executive actions of the Government of India shall be expressed to be taken in the name of the President'?

(a) Article 71 (1)
(b) Article 75 (1A)
(c) Article 77 (1)
(d) Article 78 (2)

Q66. Select the INCORRECTLY spelt word..

(a) Reflect
(b) Music
(c) Scarl
(d) Shadow

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Q67. Select the most appropriate form of comparative degree that can substitute the underlined segment in the given sentence.

Rohit Sharma is better than more other batsman in the world.

(a) the best batsmen
(b) a better batsman
(c) better than most other batsmen
(d) as good as the most other batsman

Q68. Select the option that can be used as a one-word substitute for the given group of words.

The analysis of a person's handwriting to determine his/her personality

(a) Numismatics
(b) Graphology
(c) Philology
(d) Calligraphy

Q69. Select the grammatically correct sentence.

(a) Rukmini put a book on an table and sat down.
(b) Rukmini put an book on the table and sat down.
(c) Rukmini put the book on an table and sat down.
(d) Rukmini put the book on the table and sat down.

Q70. Select the most appropriate ANTONYM of the underlined word in the given sentence.

Anupama was a very industrious child and submitted all her assignments on time.

(a) laborious
(b) lazy
(c) industrial
(d) intense

Q71. Select the most appropriate option to fill in the blanks.

I bought a ___ but it is ___.

(a) cake, cane
(b) chip, cheap
(c) cheap, chip
(d) cane, cane

Q72. Identify the error in the given sentence.

Ajit got to work earliest than everyone else today.

(a) earliest than
(b) today
(c) everyone else
(d) Ajit got to work

Q73. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The happy and cheerful girls / is always running towards / the ice cream cart in / front of the garden.

(a) the ice cream cart in
(b) front of the garden
(c) is always running towards
(d) the happy and cheerful girls

Q74. Identify the INCORRECTLY spelt word in the given sentence.

Are you sure that you can’t even write a single sentnce properly?

(a) single
(b) sentnce
(c) write

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(d) properly

Q75. Select the most appropriate form of comparative degree that can substitute the underlined segment in the given sentence.

Maheshwari is three years junior than me.

(a) junior than that of me
(b) more junior than me
(c) junior than any other to me
(d) junior to me

Q76. Select the option that can be used as a one-word substitute for the given group of words.

The branch of geography that studies mountains and their formation

(a) Pedography
(b) Orthography
(c) Orography
(d) Mythography

Q77. Select the INCORRECTLY spelt word.

(a) Beginer
(b) Prescription
(c) Ceremony
(d) Disappointment

Q78. Select the most appropriate option to fill in the blank.

The students were _____ for their hard work with certificates and praise.

(a) reprimanded
(b) penalised
(c) rewarded
(d) punished

Q79. Select the grammatically correct sentence.

(a) Rahul is very naughty as he is the most young sibling between Rama's three brothers.
(b) Rahul is very naughty as he is the youngest sibling among Rama's three brothers.
(c) Rahul is very naughty as he is the youngest sibling between Rama's three brothers.
(d) Rahul is very naughty as he is the most young sibling among Rama's three brothers.

Q80. Select the most appropriate option to fill in the blank.

The concert was _____ due to the bad weather.

(a) celebrated
(b) continued
(c) cancelled
(d) commenced

Q81. Select the most appropriate ANTONYM of the underlined word in the given sentence.

He was very inquisitive and wanted to know each and every detail.

(a) Indifferent
(b) Uncanny
(c) Indiscriminate
(d) Intelligent

Q82. Select the most appropriate idiom to replace the underlined segment.

He thinks his new plan will undoubtedly produce the desired result.

(a) bear fruit
(b) go suck a lemon
(c) sour grapes

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(d) go pear-shaped

Q83. Select the most appropriate synonym of the given word.

Antique

(a) Novel
(b) Young
(c) Ancient
(d) Modern

Q84. Select the most appropriate synonym of the word given in brackets to fill in the blank.

Many orthodox people have a ____ (hostile) attitude towards the idea of women getting educated and employed.

(a) belligerent
(b) friendly
(c) meticulous
(d) elaborate

Q85. Select the most appropriate option that can substitute the underlined words in the given sentence.

Losing my job turned out to be an unexpected benefit because it pushed me to start my own business, which has been more successful than I ever imagined.

(a) a golden opportunity
(b) a diamond in rough
(c) a blessing in disguise
(d) a mixed blessing

Directions

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

The computer can become a threat to man. It can (1)_____ his survival and privacy. It also offers excellent encouragement for unethical or criminal activities. It can (2)_____ the unemployment problem as employers prefer the computer and the 'computer- controlled robots' to humans for obvious reasons. The information storage facility the computer provides has (3)_____ to collection of personal information about individuals and storage of this information in data banks by several employing agencies. If care is not exercised (4)_____ data gathering, data integrity may suffer. That is, questionable or imperfect methods may be employed; as a result, incorrect or incomplete data may be stored, and this (5)_____ become a permanent source and used for any given purpose.

Q86. Select the most appropriate option to fill in blank no. 1.

(a) tranformative
(b) protect
(c) endanger
(d) encourage

Q87. Select the most appropriate option to fill in blank no. 2.

(a) control
(b) improve
(c) worsen
(d) beat

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Q88. Select the most appropriate option to fill in blank no. 3.

(a) involved
(b) stored
(c) led
(d) experienced

Q89. Select the most appropriate option to fill in blank no. 4.

(a) during
(b) when
(c) by
(d) unless

Q90. Select the most appropriate option to fill in blank no. 5.

(a) must
(b) may
(c) should
(d) have to

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
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

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