SSC MTS 2024 Official Paper (Held On: 16 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. Find the simple interest (in Rs.) on Rs. 3500 as a sum borrowed at 5% per year rate of interest for 2 years.

(a) 390
(b) 350
(c) 290
(d) 310

Q2. Reduce 374/418 to the lowest term.

(a) 17/19
(b) 11/19
(c) 12/13
(d) 11/13

Q3. A cylinder with a radius of 12 cm and height of 38 cm is cut parallel to the base into two pieces of different sizes. The total surface area of the larger piece formed is 60% of the total surface area of the given cylinder. The smaller piece is melted and used to create a sphere. Find the radius (in cm) of the sphere.

(a) 10 × cbrt6
(b) 6 × cbrt10
(c) 10 × cbrt5
(d) 5 × cbrt10

Q4. In a group of 260 people, one-fourth are women, two-fifth are men and the rest are children. The average age of women is five-sixth of the average age of men, average age of children is one-third of the average age of men. If the average age of men is 48 years, what is the average age of the group in years?

(a) 42.7
(b) 34.8
(c) 38.4
(d) 32.7

Q5. Find the simple interest (in Rs.) on Rs. 3500 as a sum borrowed at 6% per year rate of interest for 4 years.

(a) 800
(b) 880
(c) 780
(d) 840

Q6. If 12 : x :: x : 27 and 25 : y :: y : 36, where x and y are both positive numbers, then find x : y.

(a) 7 : 9
(b) 3 : 5
(c) 5 : 6
(d) 4 : 7

Q7. A man bought an article for Rs. 500 and sold it for Rs. 600. Find his profit percentage.

(a) 40%
(b) 30%
(c) 20%
(d) 10%

Q8. Aniruddh invested Rs. 15,000 in the shares of a company. The shares rose by 15% one day and fell by 10% on the other day. What is the current value (in Rs.) of Aniruddh's investment?

(a) 15450
(b) 15525
(c) 15750
(d) 15000

Q9. A and B are running in the same direction at the speeds of 9km/h and 3km/h, respectively, on a circular track of length 27 km. They will meet again after:

(a) 4.5 hours
(b) 4 hours
(c) 3.5 hours
(d) 3 hours

Q10. In the what ratio must a shopkeeper mix 2 types of rice worth Rs. 80/kg and Rs. 100/kg, so that the average cost of the mixture is Rs. 95/kg?

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

Q11. Annual income of five schools (in lakhs)

Source of Income	Schools				
	P	Q	R	S	T
Tuition Fee	3	6	5	7	6
Semester Fee	8	4	3	9	2
Donation	4	7	4	5	9
Grants	1	2	5	1	5
Miscellaneous	5	8	9	10	3
Total	21	27	26	32	25

For school R, income from Miscellaneous is what percentage (in%) of income from Donation?

(a) 125
(b) 75
(c) 250
(d) 225

Q12. Two classes took the same test. One class of 20 students made an average grade of 85%, the other class of 30 students made an average grade of 70%. The average grade for all students across both classes is:

(a) 74%
(b) 72%
(c) 76%
(d) 75%

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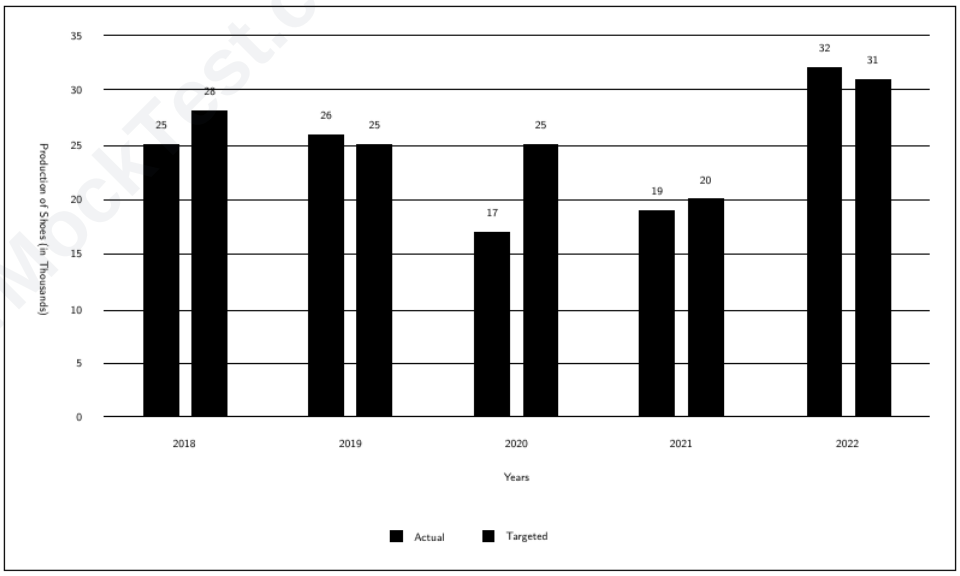
Q13. The external and internal diameters of a hollow cylindrical pipe are 14 cm and 12 cm, respectively. What is the volume of iron used to make the pipe if the height of the pipe is 21 cm? (Use π = 22/7)

(a) 462 cu.cm
(b) 396 cu.cm
(c) 588 cu.cm
(d) 858 cu.cm

Q14. Find the ratio of the curved surface areas of two cones if the diameters of the bases are equal and slant heights are in the ratio 5 : 3.

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

Q15. The actual and targeted production (in thousands) of shoes of a company during the last five years are given in the following bar graph. Study the bar graph carefully and answer the question that follows:



The total actual production in 2020 and 2021 is what per cent of the total targeted production in 2021 and 2022? (correct up to two decimal places)

(a) 67.59%
(b) 70.59%
(c) 80.95%
(d) 77.67%

Q16. A car driver covers a total distance of 120 km. He covers the first 80 km at a uniform speed of 50 km/h and the next 40 km at a uniform speed of 40 km/h. The average speed of the car is:

(a) 461/13 km/h
(b) 465/13 km/h
(c) 463/13 km/h
(d) 462/13 km/h

Q17. If the cost price of 30 books is same as the selling price of 20 books, then the gain percentage is:

(a) 50%
(b) 40%
(c) 15%
(d) 25%

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Q18. The average weight of 12 students and two teachers is 55 kg. When one teacher weighing 68 kg is included in the group, then the average weight of the group (in kg) is:

(a) 56
(b) 56.5
(c) 54.5
(d) 55

Q19. The difference between discounts on a bill for Rs. 22,500 under two schemes, a discount of 40% and two successive discounts of 36% and 4%, is:

(a) Rs. 342
(b) Rs. 356
(c) Rs. 324
(d) Rs. 365

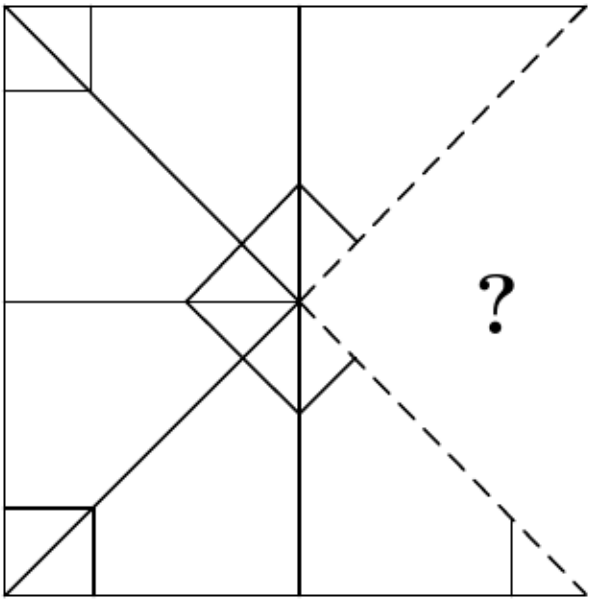
Q20. Find the simple interest (intRs.) on Rs. 940 for 3 years at 5% per annum.

(a) Rs. 142
(b) Rs. 143
(c) Rs. 140
(d) Rs. 141

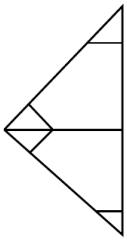
Q21. In a certain code language, 'she is intelligent' is written as 'le me re' and 'she is studious' is written as 're de le'. How is 'studious' written in the given code language?

(a) de
(b) me
(c) re
(d) le

Q22. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

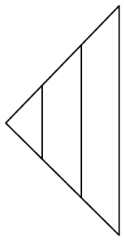


(a)

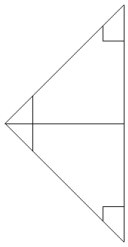


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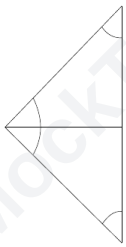
(b)



(c)



(d)



Q23. In a certain code language, 'MONK' is coded as '1238' and 'HONK' is coded as '8326'. What is the code for 'H' in that language?

(a) 6
(b) 3
(c) 2
(d) 8

Q24. What should come in place of '?' in the given series?

5040, 6064, 6576, 6832, 6960, ?

(a) 1472
(b) 7024
(c) 7088
(d) 7216

Q25. 43 is related to 87 following a certain logic. Following the same logic, 63 is related to 127. To which of the following is 52 related, following the same logic?

(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 / 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.)

(a) 108
(b) 105
(c) 111
(d) 101

Q26. What will come in the place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '−' and '×' are interchanged?

4 – 6 × 27 ÷ 72 + 6 = ?

(a) 9
(b) 6

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(c) 14
(d) 1

Q27. 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 its constituent digits. E.g., 13 – 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.)

(8, 320, 4)

(1, 70, 7)

(a) (2, 110, 5)
(b) (3, 10, 7)
(c) (2, 40, 2)
(d) (3, 22, 5)

Q28. A, B, C, D, E and F are sitting around a circular table facing the centre (but not necessarily in the same order). A is sitting third to the left of B. C is sitting second to the right of F. A is sitting to the immediate left of C. D is not an immediate neighbour of C.

What is the position of B with respect to E?

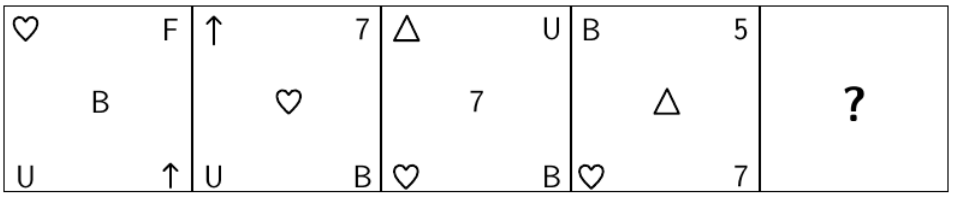
(a) Immediate right
(b) Second to the left
(c) Second to the right
(d) Immediate left

Q29. What will come in the place of the question mark (?) in the following equation if '÷' and '+' are interchanged and '–' and '×' are interchanged?

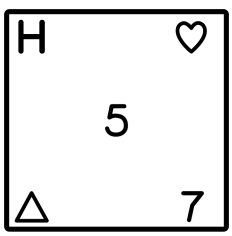
17 ÷ 27 × 7 − 9 + 3 = ?

(a) 122
(b) 76
(c) 34
(d) 23

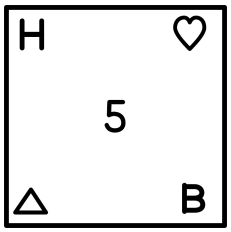
Q30. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern



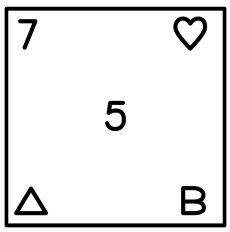
(a)



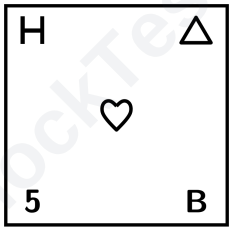
(b)



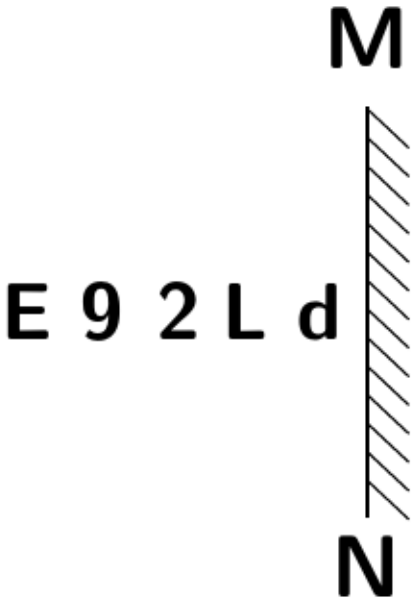
(c)



(d)



Q31. 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)





Q32. What should come in place of the question mark (?) in the following series based on the English alphabetical order?

PAX, RCV, TET, VGR, ?

(a) XIQ
(b) XJP
(c) XJQ
(d) XIP

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Q33. In a certain code language, 'FOUR' is coded as '3157' and 'RENT' is coded as '2384'.

What is the code for 'R' in the given code language?

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

Q34. Read the given statement(s) 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 statement(s).

Statements:

All chocolates are juices.

No juice is a biscuit.

Conclusions:

(I) No chocolate is a biscuit.

(II) No biscuit is a juice.

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

Q35. This question has two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions logically follow(s) from the given statements.

Statements:

All bags are purses.

No purse is a wallet.

Conclusions

(I) At least some wallets are purses.

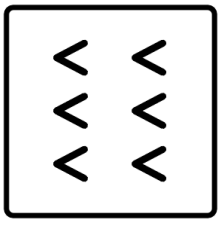
(II) No bag is a wallet.

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

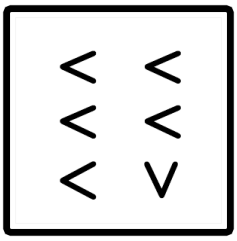
Q36. Identify the figure given in the options which when put in place of (?) will logically complete the series.



(a)



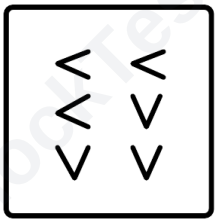
(b)



(c)



(d)



Q37. MHLG is related to IDHC in a certain way based on the English alphabetical order. In the same way, PKOJ is related to LGKF. To which of the following is SNRM related, following the same logic?

(a) OJIN
(b) JONI
(c) JOIN
(d) OJNI

Q38. RZ31 is related to TB25 in a certain way. In the same way, JR46 is related to LT40. To which of the following is GO18 related following the same logic?

(a) JP12
(b) IQ15
(c) JP15
(d) IQ12

Q39. In a certain code language, 'ROSE' is coded as '8546' and 'SURE' is coded as '4368'. What is the code for 'U' in the given code language?

(a) 4
(b) 5
(c) 8

(d) 3

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Q40. Seven people P, Q, R, S, T, U and V are sitting around a circular table, facing the centre (but not necessarily in the same order). S is sitting third to the left of V. T is sitting second to the right of S. P is sitting fourth to the right of Q. U is sitting second to the left of P. What is the position of R with respect to T?

(a) Third to the right
(b) Third to the left
(c) To the immediate left
(d) Second to the left

SESSION 2

Q41. In September 2023, which Chief Minister of an Indian state won the Lee Kuan Yew Exchange Fellowship for his distinguished contribution to public service?

(a) Shivraj Singh Chouhan
(b) Yogi Adityanath
(c) Himanta Biswa Sarma
(d) Naveen Patnayak

Q42. Gulbarga and Bidar style of architecture was patronised by which of the following dynasties?

(a) Maratha dynasty
(b) Nanda dynasty
(c) Tuluva dynasty
(d) Bahmani dynasty

Q43. Which food is a good source of complete protein?

(a) Eggs
(b) Spinach
(c) Lentils
(d) Rice

Q44. The property of rock or soil that indicates the ability of allowing fluids to flow through it is called:

(a) Permeability
(b) Plasticity
(c) Stability
(d) Density

Q45. Who among the following was NOT associated with the ‘Prarthana Sabha’?

(a) Mahatma Gandhi
(b) RG Bhandarkar
(c) Govind Ranade
(d) Atmaram Pandurang

Q46. Air and National Defence are examples of which of the following goods?

(a) Public goods
(b) Common goods
(c) Club goods
(d) Private goods

Q47. Captain Hawkins visited India during the reign of:

(a) Akbar
(b) Jahangir
(c) Babur
(d) Shahjahan

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Q48. Which type of molecules show dipole-dipole interaction?

(a) Ionic molecules
(b) Molecules possessing transient dipole
(c) Molecules possessing permanent dipole
(d) Non-polar molecules

Q49. Mahatma Gandhi Kashi Vidyapith was founded by Shiv Prasad Gupta and Bhagwan Das in the year _____.

(a) 1922
(b) 1919
(c) 1921
(d) 1920

Q50. From which of the following countries was the concept of the Fundamental Duties borrowed?

(a) Australia
(b) Russia
(c) Ireland
(d) USA

Q51. Darshana Jhaveri, a famous Manipuri dancer, was awarded the Padma Shri in which of the following years?

(a) 2005
(b) 2003
(c) 2002
(d) 2001

Q52. For how many days is the Chhat Puja celebrated?

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

Q53. The Maukharis ruled over _____ in western Uttar Pradesh, which later on replaced Pataliputra as the political centre of northern India.

(a) Kanauj
(b) Agra
(c) Mathura
(d) Jhansi

Q54. Kishori Amonkar, one of the finest classical singers of Hindustani music, was from which state?

(a) Bihar
(b) Gujarat
(c) Uttar Pradesh
(d) Maharashtra

Q55. Match list I of cell organelles with their functions in list II.

List I:
(a) Endoplasmic reticulum
(b) Vacuoles
(c) Golgi apparatus
(d) Mitochondria
List II:
(i) for packaging of materials synthesised near the ER and dispatching them to various targets.
(ii) generates ATP.
(iii) are storage sacs for solid or liquid contents.
(iv) serve as channels for the transport of proteins.

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(a) (a) - (iv); (b) - (i); (c) - (ii); (d) - (iii)
(b) (a) - (iv); (b) - (iii); (c) - (i); (d) - (ii)
(c) (a) - (iv); (b) - (i); (c) - (iii); (d) - (ii)
(d) (a) - (i); (b) - (iv); (c) - (iii); (d) - (ii)

Q56. Identify the INCORRECT pair.

(a) Nor Westers - West Bengal
(b) Bardoisila - Assam
(c) Blossom Shower - Andhra Pradesh
(d) Mango Shower - Kerala

Q57. In which state is the Jhumming cultivation known as Dahiya?

(a) Odisha
(b) Rajasthan
(c) Andhra Pradesh
(d) Madhya Pradesh

Q58. 'Gaur Maria' dance is performed in which of the following state?

(a) Chhattisgarh
(b) Telengana
(c) Rajasthan
(d) Gujarat

Q59. The first ICC Women's T20 Cricket World Cup was hosted by _____.

(a) England
(b) Australia
(c) South Africa
(d) India

Q60. Who was named as the president of Shiv Sena (Shinde Group) during the party's national executive meeting in Mumbai in February 2023?

(a) Eknath Shinde
(b) Sanjay Raut
(c) Aaditya Thackeray
(d) Uddhav Thackeray

Q61. Who among the following became the first Indian to win a gold medal at the World Athletics Championships event?

(a) Murli Shree Shankar
(b) Neeraj Chopra
(c) Milkha Singh
(d) Duti Chand

Q62. Which of the following Articles of the Constitution mentions that, "There shall be paid to the Judges of the Supreme Court such salaries as may be determined by the Parliament by law, and until provision in that behalf is so made, such salaries are specified in the Second Schedule"?

(a) 125
(b) 127
(c) 124
(d) 126

Q63. Who is the writer of the novel 'A Suitable Boy'?

(a) Neel Mukherjee
(b) Arvind Adiga
(c) Vikram Seth
(d) Mahesh Rao

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Q64. Which of the following initiatives of the Government of India promises 100 days of guaranteed wage employment to all the rural households who volunteer to do unskilled manual work?

(a) Pradhan Mantri Garib Kalyan Rojgar Abhiyan
(b) Mahatma Gandhi National Rural Employment Guarantee Scheme
(c) National Career Service
(d) Pradhan Mantri Rojgar Protsahan Yojana

Q65. Who among the following personalities said, "What I object to is the ‘craze’ for machinery as such. The craze is for what they call labour-saving machinery. Men go on ‘saving labour’ till thousands are without work and thrown to the open streets to die of starvation."?

(a) Mahatma Gandhi
(b) Swami Vivekananda
(c) Lal Bahadur Shastri
(d) Pt. Jawaharlal Nehru

Q66. Select the option that has used the correct tense.

(a) Yesterday, we will be painting the door when a neighbour stops by to say hello.
(b) Yesterday, we are painting the door when a neighbour stop by to say hello.
(c) Yesterday, we was painting the door when a neighbour stopping by to say hello.
(d) Yesterday, we were painting the door when a neighbour stopped by to say hello.

Q67. Select the most appropriate option to fill in the blank.

The coaches decided to _____ the regulations more strictly because the candidates were not paying attention during their training sessions.

(a) enjoy
(b) provide
(c) enforce
(d) supply

Q68. Select the most appropriate option to fill in the blank.

I checked the _____ to see if it will rain or not.

(a) whether
(b) wither
(c) wether
(d) weather

Q69. Select the most appropriate ANTONYM of the underlined word in the given sentence.

Although she is virtuous in her deeds, people misinterpret her because of her open and bold nature.

(a) sane
(b) wicked
(c) moral
(d) commendable

Q70. Select the INCORRECTLY spelt word.

(a) Separate
(b) Concieve
(c) Accessible
(d) Convenience

Q71. Select the most appropriate option that can replace the underlined segment in the given sentence.

No sooner had they left their home that it started raining heavily.

(a) their home that it start
(b) their home than it starts
(c) there home than it started
(d) their home than it started

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Q72. Select the option that can be used as a one-word substitute for the given phrase.

Something that has the quality of being easily broken

(a) Brittle
(b) Broken
(c) Damage
(d) Hard

Q73. Select the correct idiom to substitute the underlined segment in the following sentence.

Sean is notorious for revealing the secrets about the company.

(a) Being in bad blood
(b) Biting the bullet
(c) Spilling the beans
(d) Biting the dust

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

I have a _____ for reading and want to become a writer when I grow up.

(a) tallow
(b) unity
(c) dream
(d) passion

Q75. Select the most appropriate option that can substitute the underlined words in the given sentence.

Solving the riddle given by our teacher is farther beyond our capacity.

(a) fair
(b) fare
(c) farthest
(d) far

Q76. Select the most appropriate idiom that can substitute the underlined words in the given sentence.

I heard management is planning to transfer me to another department and demote me. I need to confirm if this is true by hearing it directly from the person involved and from my manager.

(a) straight from the horse's mouth
(b) on pins and needles
(c) in the seventh heaven
(d) bearing a grudge

Q77. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There has been / an increase of the number / of road / accidents recently.

(a) an increase of the number
(b) of road
(c) There has been
(d) accidents recently

Q78. Select the option that rectifies the error in the usage of the future tense in the given sentence.

Shivani go to school tomorrow for prize distribution.

(a) Shivani will go to school tomorrow for prize distribution.
(b) Shivani has gone to school tomorrow for prize distribution.
(c) Shivani had gone to school tomorrow for prize distribution.
(d) Shivani goes to school tomorrow for prize distribution.

Q79. Rectify the sentence by selecting the correct spelling of the underlined word from the options.

He was startled by the loud thander during the storm.

(a) thondar
(b) thundar

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(c) thunder
(d) thundre

Q80. Select the most appropriate option that can substitute the underlined segment in the given sentence.
Osmium is heavy metal in the periodic table.
(a) more heavy
(b) heavier
(c) the heaviest
(d) the most heavy

Q81. Select the most appropriate ANTONYM of the given word.
Excessive
(a) Moderate
(b) Flow
(c) Inordinate
(d) Desirable

Q82. Select the option that correctly rectifies the underlined spelling error.
The scientist made an appauling discovery about the environmental impact of the drug.
(a) apalling
(b) appaulling
(c) appalling
(d) appawling

Q83. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
He was constantly / gazing on the / crime scene to / find some clues.
(a) gazing on the
(b) He was constantly
(c) crime scene to
(d) find some clues

Q84. Select the most appropriate word from the options to fill in the blank.
Adithya ordered a juicy _____ cooked to perfection at the highway restaurant.
(a) stake
(b) stink
(c) steak
(d) stoke

Q85. Select the word that is OPPOSITE in meaning to the underlined word in the given sentence.
The name should also be beneficial to a strong, long-lasting marketing campaign.
(a) Desirable
(b) Detrimental
(c) Advantageous
(d) Causal

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.

It was just before noon on June 26, 1975, and my friend and I were out exploring the bustling by-lanes of Delhi's Karol Bagh, unaware that the Emergency had been declared, and that it would change our lives in ways we could have never _1_. Though Indira Gandhi had herself announced the Emergency in a national broadcast at 8 am, IST, the news took its own time to reach the common people who went about their business as always. However, two hours into our outing, we _2_ something was wrong. The pavement shops began to thin out as we watched and the bigger outlets too looked ready to _3_; many of them worked behind half-downed shutters. We were young but fancied ourselves as political animals, which at the time was shorthand for being passionately anti-Congress and anti-Indira. There was no way we were going to head home without knowing what had

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happened. There was already considerable excitement in our small friends' circle over two _4_ developments: the June 12, 1975 Allahabad high court ruling unseating Indira for electoral malpractices and the Congress's unexpected defeat in the State election in Gujarat. The Supreme Court had allowed Indira to continue as prime minister but that did not _5_ our joy; it was a technical reprieve that did not lessen the political blow she had received.

Q86. Select the most appropriate option to fill in blank number 1.

(a) undermined
(b) betrothed
(c) targeted
(d) imagined

Q87. Select the most appropriate option to fill in blank number 2.

(a) sensed
(b) received
(c) feigned
(d) created

Q88. Select the most appropriate option to fill in blank number 3.

(a) open up
(b) pop up
(c) chicken out
(d) wrap up

Q89. Select the most appropriate option to fill in blank number 4.

(a) production
(b) landmark
(c) flaws
(d) mistakes

Q90. Select the most appropriate option to fill in blank number 5.

(a) dampen
(b) adopted
(c) magnified
(d) diminished

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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