SSC MTS 2024 Official Paper (Held On: 23 Oct, 2024 Shift 1) (Previous Year Paper)

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

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

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SESSION 1

Q1. A train moving at the same speed passes two bridges of length 900 m and 486 m in 110 seconds and 70 seconds, respectively. The length of the train (in m) is:

(a) 283.5
(b) 225.7
(c) 253.8
(d) 238.5

Q2. A boat is rowed down along a river 21km in 3 hours and against a river 14km in 7 hours. Find the speed of the boat and the river.

(a) 4.5 km/h and 2.5 km/h
(b) 3.2 km/h and 4.8 km/h
(c) 6.4 km/h and 4.6 km/h
(d) 2.6 km/h and 4.8 km/h

Q3. Rohit invested a sum of money at simple interest and it became double itself in 4 frac16 years. The rate of interest per annum was:

(a) 23frac12%
(b) 22frac12%
(c) 25%
(d) 24%

Q4. What sum (in Rs.) will earn a simple interest of Rs. 240 in 2 years at 8% per year rate of interest?

(a) 2500
(b) 3000
(c) 750
(d) 1500

Q5. The average weight of 11 persons is increased by 4.5 kg when one of them, whose weight is 50.5 kg, is replaced by a new person. The weight of the new person is:

(a) 90.5 kg
(b) 95.5 kg
(c) 100 kg
(d) 98.5 kg

Q6. The average of five numbers is 62. The average of the first two numbers is 48 and that of the last two numbers is 52. What is the third number?

(a) 110
(b) 100
(c) 95
(d) 105

Q7. A shopkeeper purchases oil at Rs. 50/litre and sells the same at Rs. 54/litre. While selling, he gives 900 ml of oil instead of 1 litre. What is his profit percentage?

(a) 18%
(b) 21%
(c) 20%
(d) 14%

Q8. An ice-cream cone with a lid has a total surface area equal to the area of another circle of certain radius. If the radius of the circle is equal to average of the slant height and the radius of the cone, then the ratio of the slant height of the cone to the radius of the circle is:

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

Q9. Find the simple interest (in Rs.) on Rs. 3500 in a sum borrowed at 4% per year rate of interest for 2 years.

(a) 320
(b) 220
(c) 280
(d) 240

Q10. Find the LCM of 120, 200 and 225.

(a) 1200
(b) 2400
(c) 1800
(d) 1735

Q11. The curved surface area of a cylinder is 7920 cm². If its base radius is 21 cm, then its height will be (Use π = frac227)

(a) 30 cm
(b) 50 cm
(c) 40 cm
(d) 60 cm

Q12. The difference between successive discounts of 28% followed by 25% and 10% followed by 5% on the marked price of a pen is Rs. 63. The marked price of the pen is:

(a) Rs. 150
(b) Rs. 331
(c) Rs. 165
(d) Rs. 200

Q13. In what ratio must a grocer mix two varieties of wheat worth Rs. 80 per kg and Rs. 90 per kg so that if he sells the mixture at Rs. 105 per kg, he makes a profit of 25%?

(a) 2 : 3
(b) 21 : 16
(c) 3 : 2
(d) 6 : 7

Q14. A hemispherical bowl with an internal radius of 27 cm is full of liquid. The liquid is to be filled into cylindrical shaped bottles of diameter 12 cm and height 13.5 cm. The number of bottles required to empty the bowl is:

(a) 27
(b) 29
(c) 25
(d) 21

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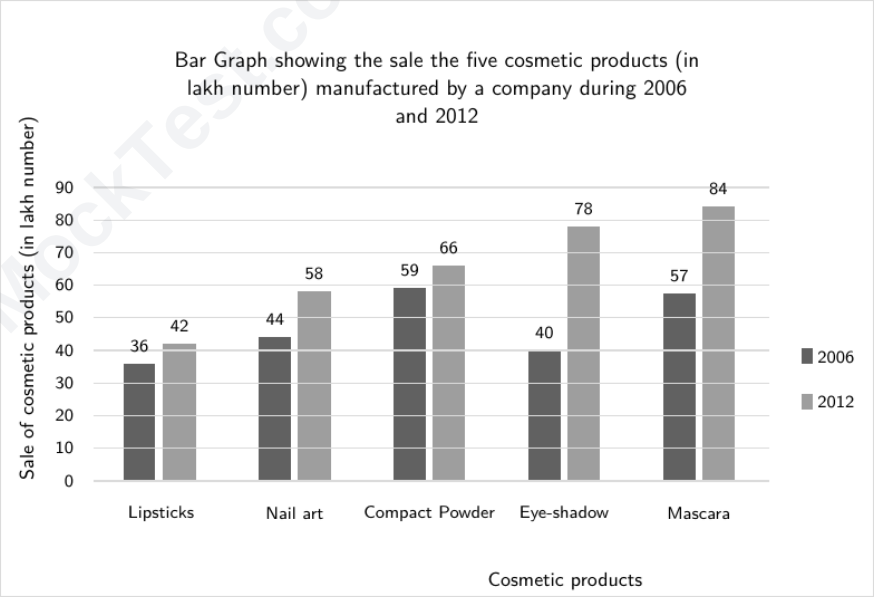
Q15. Sam purchased 20 dozen toys at the rate of Rs. 375 per dozen. He sold each of them at the rate of Rs. 33. What was his profit percentage?

(a) 4.5%
(b) 3.5%
(c) 5.6%
(d) 6.5%

Q16. What should be added to each of the four numbers 5, 19, 7 and 25 to make them proportional?

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

Q17. A cosmetic company provides five different products. The sales of these five products (in lakh) in the years 2006 and 2012 are shown in the following bar graph.



The combined sale of all the five cosmetic products in 2012 increased by what percentage (rounded off to the nearest integer) of the combined sale of all the five cosmetic products in 2006?

(a) 28%
(b) 39%
(c) 42%
(d) 33%

Q18. The average of 41 numbers is 62. The average of the first 18 numbers is 65.5, and the average of the last 24 numbers is 61.5. If the 18th number from the beginning is excluded, then what is the average of the remaining numbers?

(a) 60.725
(b) 61.325
(c) 61.625
(d) 60.5

Q19. A girl spends 76% of her income. If her income increases by 18% and her expenditure increases by 25%, then what is the percentage increase or decrease in her savings? (Correct to one decimal place)

(a) Decrease by 4.2%
(b) Increase by 5%
(c) Decrease by 3.8%
(d) Increase by 3.6%

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Q20. Study the given table and answer the question that follows.

The given table provides information about percentage marks obtained by students of classes X, XI and XII during 2020-2022.

Year	Percentage Marks		
	X	XI	XII
2020	90	80	94
2021	80	85	96
2022	70	90	98

What is the difference between the average percentage marks of class X and XII during 2020-2022?

(a) 80%
(b) 96%
(c) 16%
(d) 18%

Q21. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



Q22. 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 conclusion(s) logically follow(s) from the statements.

Statements:

Some desktops are monitors.

No monitor is a television.

Conclusions:

(I) Some desktops are televisions.

(II) Some monitors are desktops.

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

Q23. In a certain code language, ‘have good food’ is coded as ‘ti ma ka’ and ‘nutritious food healthy’ is coded as ‘ka lu pe’. How is ‘food’ coded in the given language?

(a) ma
(b) lu
(c) ka
(d) ti

Q24. What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

69 − 24 ÷ 4 × 6 + 13 = ?

(a) 86
(b) 72
(c) 70
(d) 68

Q25. 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 gardens are museums.

All museums are parks.

Conclusions:

i) Some museums are gardens.

ii) All gardens are parks.

(a) Only conclusion i follows
(b) Only conclusion ii follows
(c) Both conclusions i and ii follow
(d) Neither conclusion i nor ii follows

Q26. In a certain code language, ‘LIVE’ is coded as ‘2648’ and ‘EAST’ is coded as ‘3215’. What is the code for ‘E’ in that language?

(a) 8
(b) 3
(c) 5
(d) 2

Q27. In a certain code language, 'ARE IS WHAT' is coded as '11 22 44' and 'WHY HOW ARE' is coded as '44 33 55' and 'WHO WHAT HOW' is coded as '33 11 66'. How is 'IS' coded in the given language?

(a) 22
(b) 33
(c) 44
(d) 11

Q28. A, B, C, D, E, F, and G are sitting around a circular table, facing away from the centre (but not necessarily in the same order). Only 2 people sit between A and D when counted from the right of D. B and C are both immediate neighbours of G. F sits to the immediate left of E. Only 1 person sits between C and E when counted from the left of C. How many people are sitting between G and D when counted from the right of G?

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

Q29. Sunita, Lokesh, Babita, Isha, Akram, Alok and Kiran are sitting around a circular table facing the centre (but not necessarily in the same order). Sunita is an immediate neighbour of Babita. Lokesh sits 2nd to the right of Babita. Isha sits 4th to the right of Akram. Alok sits 3rd to the right of Lokesh. Isha sits 2nd to the left of Alok. Who sits third to the right of Babita?

(a) Alok
(b) Isha
(c) Lokesh
(d) Kiran

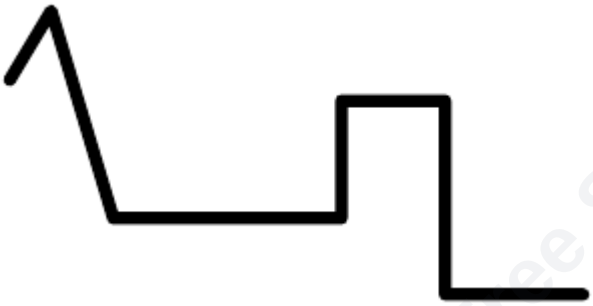
Q30. 4 is related to 17 following a certain logic. Following the same logic, 5 is related to 26. To which of the following is 10 related following the same logic?

(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 13can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1and 3 is not allowed)

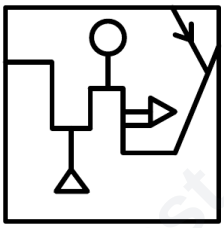
(a) 99
(b) 121
(c) 103
(d) 101

Q31. Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

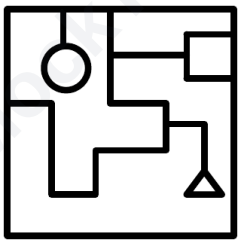
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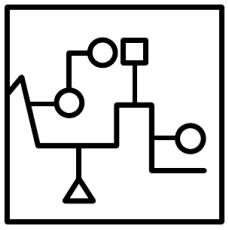
(a)



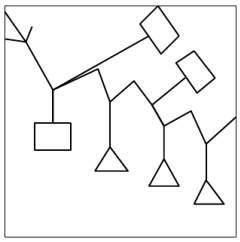
(b)



(c)



(d)



Q32. What should come in place of the question mark (?) in the following series?

800, 700, 600, 500, 400, ?

(a) 399
(b) 789
(c) 656
(d) 300

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Q33. What should come in place of the question mark (?) in the following series based on the English alphabetical order?

ISC, GPF, EMI, CJL, ?

(a) AGO
(b) BGP
(c) BGO
(d) AGP

Q34. In a certain code language, 'sparrow pigeon eagle' is coded as '11 55 33' and 'cat eagle bat' is coded as '33 22 99' and 'pigeon bat rat' is coded as '22 55 88'. How is 'rat' coded in the given language?

(a) 88
(b) 33
(c) 55
(d) 22

Q35. RXPL is related to OUMI in a certain way based on the English alphabetical order. In the same way, TZRN is related to QWOK. To which of the following is PVNJ related, following the same logic?

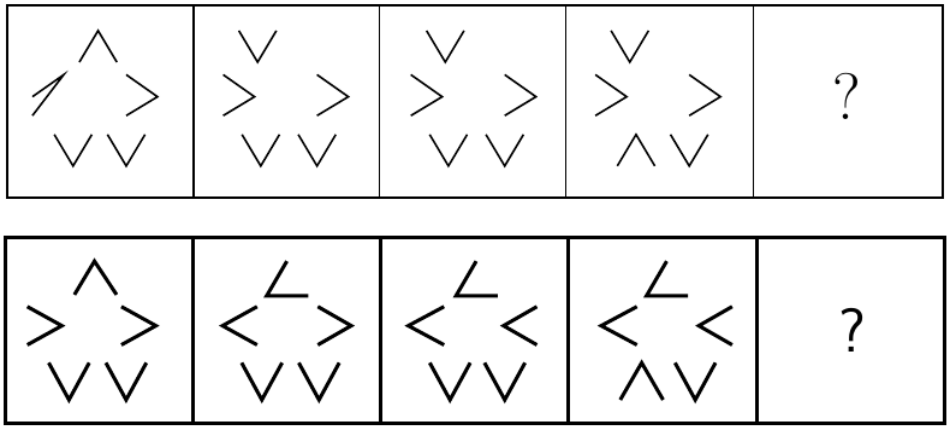
(a) SMGK
(b) MSGK
(c) SMKG
(d) MSKG

Q36. Which two signs should be interchanged to make the following equation correct?

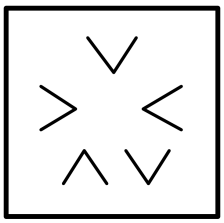
30 ÷ 9 × 2 + 70 − 14 = 17

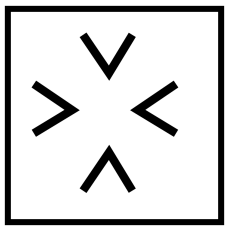
(a) ÷ and ×
(b) − and +
(c) ÷ and −
(d) • and ×

Q37. Identify the figure given in the options which when put in place of ? will logically complete the series.

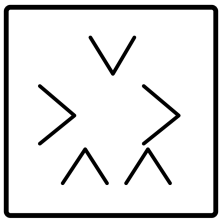


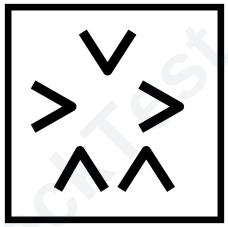
(a)



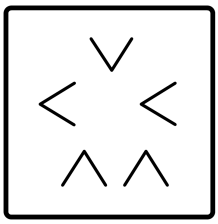


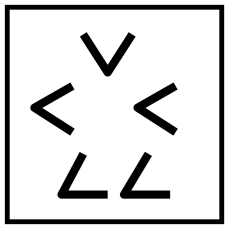
(b)





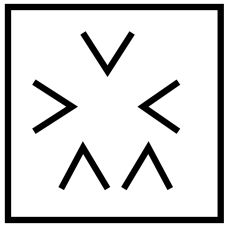
(c)





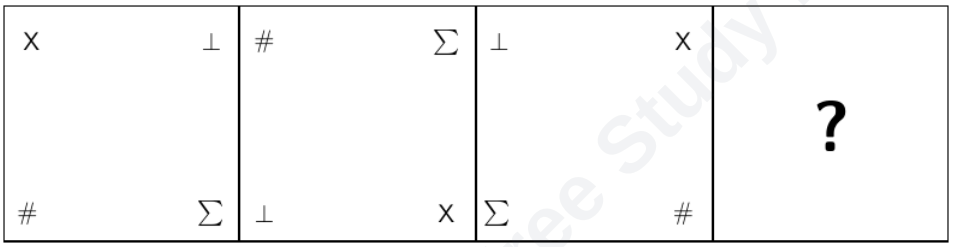
(d)

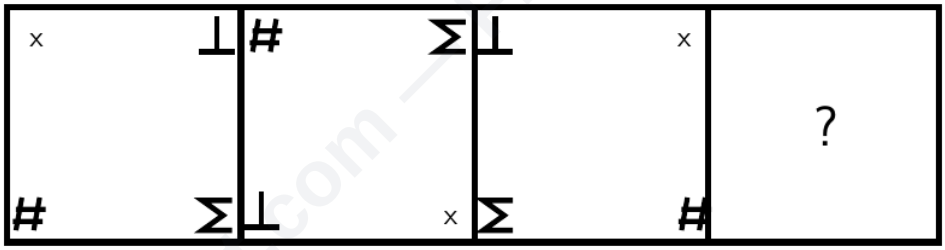




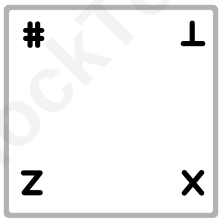
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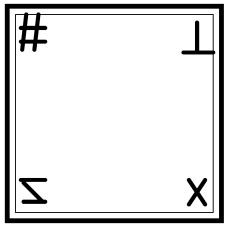
Q38. Select the figure from among the given that will come in place of the question mark (?) and logically complete the series.



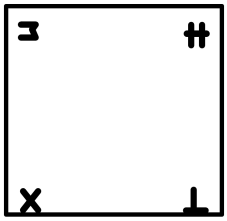


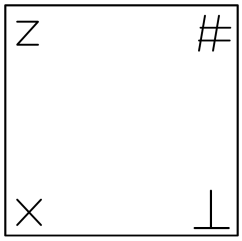
(a)





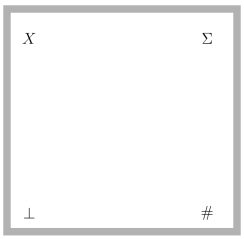
(b)

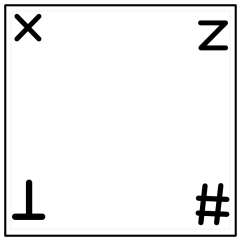




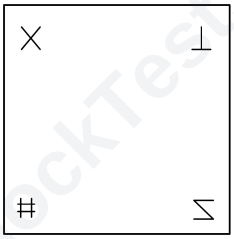
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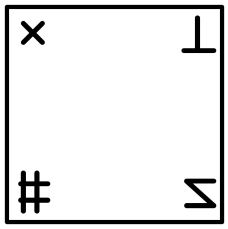
(c)





(d)





Q39. Four number triads have been given, out of which three are alike in some manner and one is different. Select the number triad that is different from the rest.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their 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) (5, 10, 100)
(b) (9, 18, 320)
(c) (8, 16, 256)
(d) (3, 6, 36)

Q40. '4KC2' is related to '6MA4' in a certain way. In the same way, '3MN4' is related to '5OL6'. To which of the following is '5NO3' related following the same logic?

(a) 7PM5
(b) 8PL6
(c) 5OM7
(d) 6MO7

SESSION 2

Q41. "Dashain" and "Tihar" are popular festivals of which neighbouring country of India?

(a) Sri Lanka
(b) Nepal
(c) Pakistan

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(d) Bangladesh

Q42. Right of a prisoner to speedy trial will be categorized in which of the following Fundamental Rights?

(a) Right against Exploitation
(b) Right to Life
(c) Right to Constitutional Remedies
(d) Right to Equality

Q43. All natural earthquakes take place in the:

(a) Lithosphere
(b) Hydrosphere
(c) Biosphere
(d) Asthenosphere

Q44. In which of the following years did Alexander invade Punjab and in which of the following years did he die?

(a) 320 BC and 323 BC
(b) 326 BC and 323 BC
(c) 326 BC and 327 BC
(d) 323 BC and 328 BC

Q45. In which of the following states is Aoleang Monyu celebrated, which is an ancient spring festival celebrated by all Konyaks in the month of April?

(a) Bihar
(b) Telangana
(c) Odisha
(d) Nagaland

Q46. Which of the following is an example of a private sector industry?

(a) Life Insurance Corporation
(b) Bharat Heavy Electricals Limited
(c) Steel Authority of India Limited
(d) Tata Iron and Steel Company

Q47. Which specific chemical can be applied to achieve staining of chromosomes?

(a) Ethanol
(b) Hydrochloric acid
(c) Acetocarmine
(d) Methanol

Q48. Which chronicler of the medieval age recognised that Raziyya was more able and qualified than all her brothers?

(a) Fakhr-i-Mudabbir
(b) Minhaj-i-Siraj
(c) S. Muhammad Junadi
(d) Taj-ul-din

Q49. If after being bitten by a mosquito, the person is detected as being malaria positive, which of the following will hold true?

A. The person did not have a balanced diet.
B. The mosquito was carrying plasmodium.
C. The mosquito was suffering from malaria.
D. The person was not vaccinated as a child.

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

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Q50. Which of the following Indian tribal dances is prevalent in the Araku Valley near Visakhapatnam?

(a) Dhimsa
(b) Bagurumba
(c) Jhumur
(d) Bardo Chham

Q51. Which Article of the Indian Constitution has provisions for the appointment of High Court Judges?

(a) Article 252
(b) Article 202
(c) Article 217
(d) Article 119

Q52. Which of the following is NOT the principle laid down by the OECD about budgetary governance?

(a) It does not allow the citizen to participate in budgetary debates.
(b) The execution of the budget must be proactively planned, managed, and monitored.
(c) Design the capital budgeting framework to meet national development needs.
(d) Alignment of budgets with medium-term strategic priorities of the government.

Q53. In February 2024, who was sworn in as the first woman Chief Justice of the Uttarakhand High Court?

(a) Sujata Manohar
(b) Ranjana Desai
(c) Gyan Sudha Misra
(d) Ritu Bahri

Q54. Which of the following countries won the maximum number of T20 Women's Cricket World Cup titles?

(a) England
(b) India
(c) Australia
(d) West Indies

Q55. Which of the following Acts provided for a system of tribunals and a ban on strikes?

(a) The Trade Disputes Act, 1929
(b) Government of India Act, 1912
(c) Age of Consent Act, 1891
(d) Indian Partnership Act, 1932

Q56. Which of the following fields is NOT covered by the National Eminence Award?

(a) Literature
(b) Theatre
(c) Dance
(d) Music of all forms and origin

Q57. Carnatic singer Bombay Jayashri has been selected for which music award in 2023?

(a) Sangita Kalanidhi
(b) Sangeetha Kalasarathy
(c) Sangeetha Kalasikhamani
(d) Sangeetha Choodamani

Q58. Epic Poem, Savitri, described by its author as 'A Legend and a Symbol', was written by _____.

(a) Bal Gangadhar Tilak
(b) Aurobindo Ghosh
(c) Mahatma Phule
(d) Baba Saheb Ambedkar

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Q59. iGOT Karmayogi is an integrated online training platform to provide continuous learning opportunities to _____ in order to upgrade their skills.

(a) Journalists
(b) Individual Civil Service Officials
(c) Lawyers
(d) Unorganised Workers

Q60. 'Once a Dancer' is the autobiography of _____.

(a) Yamini Krishnamurthy
(b) Audrey Hepburn
(c) Allegra Kent
(d) Sudha Chandran

Q61. Which track and field event has a water jump?

(a) Decathlon
(b) Cross country running
(c) Steeplechase
(d) Hurdles running

Q62. JJ Thomson is known for developing which model in 1898?

(a) Gold foil model
(b) Plum pudding model
(c) Double-slit model
(d) Oil drop model

Q63. Who excavated the Chira Tope stupa at Taxila?

(a) James Mill
(b) James Princip
(c) Alexander Cunningham
(d) John Marshall

Q64. The Zaskar and the Nubra are tributaries of which river?

(a) Mahanadi
(b) Ganga
(c) Indus
(d) Kaveri

Q65. According to the Census of India 2011, what is the population density of India?

(a) 375/km²
(b) 388/km²
(c) 382/km²
(d) 360/km²

Q66. Select the most appropriate option that can substitute the underlined segment in the given sentence.
The government is developing a new test in the recruitment and training of teachers in the upcoming session.

(a) in recruitment and training on teachers
(b) of the recruitment and training of teachers
(c) for the recruitment and training of teachers
(d) for recruitment or training of teachers

Q67. Select the most appropriate option that can substitute the highlighted word(s) in the given sentence.
The fleets of Anthony were not merely defeated, also destroyed by Augustus Caesar.

(a) not only defeated, but also destroyed
(b) only defeated, and destroyed
(c) merely defeated, however destroyed

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(d) merely defeated, though destroyed

Q68. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select "No substitution required".

The car, with all its features, were meticulously designed.

(a) its features, were meticulously
(b) its features, was meticulously
(c) its features, have meticulously
(d) No substitution required

Q69. Select the option that rectifies the spelling of the underlined word in the given sentence.

How can one justify sending sound waves into space when they cannot travel through a vacum?

(a) vacum
(b) vacuum
(c) vacume
(d) vaccum

Q70. Select the INCORRECTLY spelt word in the following sentence.

The restaurant's specialtiy is seafood.

(a) specialtiy
(b) restaurant's
(c) seafood
(d) The

Q71. Select the most appropriate synonym of the underlined word in the given sentence.

Her fear of public speaking was a major hurdle in her career.

(a) Obstacle
(b) Support
(c) Encouragement
(d) Stimulus

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

The teacher encouraged students to cultivate a _____ attitude towards learning, embracing challenges as opportunities for growth.

(a) stagnant
(b) complacent
(c) redundant
(d) resilient

Q73. Select the most appropriate meaning of the underlined word in the context of the following sentence.

The palm is a native of Malaysia. We can find them in groves.

(a) A type of soil
(b) A pamphlet
(c) A type of tree
(d) Inner surface of the hand

Q74. In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative.

When they left for Mexico, their house was in good condition than it is now.

(a) more good
(b) excellent
(c) best
(d) better

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Q75. In the given sentence, one of the four underlined words is incorrectly spelt. Identify the INCORRECTLY spelt word.

The scientific community gave credance to the new research findings after rigorous testing and validation.

(a) credance
(b) rigorous
(c) validation
(d) community

Q76. Identify the sentence with an error in the use of simple present tense.

(a) We brush our teeth daily.
(b) He go to school every day.
(c) She walks every morning.
(d) You do yoga every morning.

Q77. Select the most appropriate synonym of the given word.

Preserve

(a) Maintain
(b) Consume
(c) Complain
(d) Ignore

Q78. Select the most appropriate meaning of the underlined word.

He took the right decision at that time.

(a) Someone’s liberty and freedom
(b) Something which is correct
(c) Something which is invalid
(d) A particular direction

Q79. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She received / an award / for her work / in a engineering field.

(a) She received
(b) in a engineering field.
(c) an award
(d) for her work

Q80. Select the appropriate synonym of the underlined word.

The bride has an exquisite face.

(a) Average
(b) Plain
(c) Beautiful
(d) Ugly

Q81. In the following sentence the underlined part contains an error. Below are given alternatives to the underlined part. Select the correct alternative.

Kanha National Park in MP is the dense forest in India.

(a) densest
(b) more denser
(c) denser
(d) most dense

Q82. The following sentence has been divided into parts. 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.

There is only one way / to have a happier marred life / and I will learn it soon.

(a) I and I will learn it soon.
(b) There is only one way

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(c) No error
(d) to have a happier marred life

Q83. Select the most appropriate idiom to fill in the blank.
We hear the judges from their _____ that only CNG buses should run in Delhi.
(a) melting pot
(b) ivory tower
(c) back sharp
(d) square meal

Q84. Select the most appropriate phrase that can substitute the underlined segment in the given sentence.
The question paper was very easy to complete.
(a) the last straw
(b) fair and square
(c) a piece of cake
(d) a snowball effect

Q85. Select the most appropriate adjective to fill in the blanks.
The Nile is the _____ river in the world.
(a) most long
(b) long
(c) longest
(d) longer

Directions
In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.
How environmental problems __1___ different groups is a function of social inequality. Social status and power determine the _____2__ to which people can insulate themselves from environmental crises or overcome them. In some cases, their 'solutions' may actually worsen environmental disparities. In Kutch, Gujarat, where water is scarce, richer farmers have __3__ in deep bore tubewells to tap groundwater to irrigate their fields and grow cash crops. When the rains fail, the earthen wells of the poorer villagers
run dry and they do not even have water to drink. At such times, the moist green fields of the rich farmers seem to mock them. Certain
environmental concerns sometimes appear to be universal concerns, not particular to __4___ social groups. For instance, ____5_____ air pollution or protecting biodiversity seems to be in the public interest. A sociological analysis shows, however, that how public priorities are set and how they are pursued may not be universally beneficial.

Q86. Select the most appropriate option to fill in blank number 1.
(a) Partial
(b) Effect
(c) Adopt
(d) Affect

Q87. Select the most appropriate option to fill in blank number 2.
(a) Extent
(b) Various
(c) Scope
(d) Expanse

Q88. Select the most appropriate option to fill in blank number 3.
(a) Invested
(b) Licensed
(c) Capitalised

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(d) Provided

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

(a) Specific
(b) Exactly
(c) Restriction
(d) Indefinitely

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

(a) Abdicating
(b) Increasing
(c) Reducing
(d) Manipulating

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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