SSC MTS 2024 Official Paper (Held On: 16 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. Simple interest on a given sum for 3 years at a rate of 17% per year is Rs. 7,140 less than the simple interest on the same sum for 5 years. Find the sum.

(a) Rs. 23,000
(b) Rs. 20,000
(c) Rs. 21,000
(d) Rs. 22,000

Q2. A thick cylindrical pipe of length 1.4 m open at both the ends has internal and external diameters 60 cm and 80 cm, respectively. It is to be painted from all sides. What will be the cost of painting (in Rs.) if the rate of painting is Rs. 110 / m^2? (Use $\pi = 22/7$)

(a) 748
(b) 734
(c) 712
(d) 726

Q3. Find the total surface area of hemisphere of radius 6.3 cm.

(a) 3,742 cm^2
(b) 2,377 cm^2
(c) 374.2 cm^2
(d) 3,524 cm^2

Q4. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 7% per year rate of interest for 6 years.

(a) 1200
(b) 1300
(c) 1260
(d) 1220

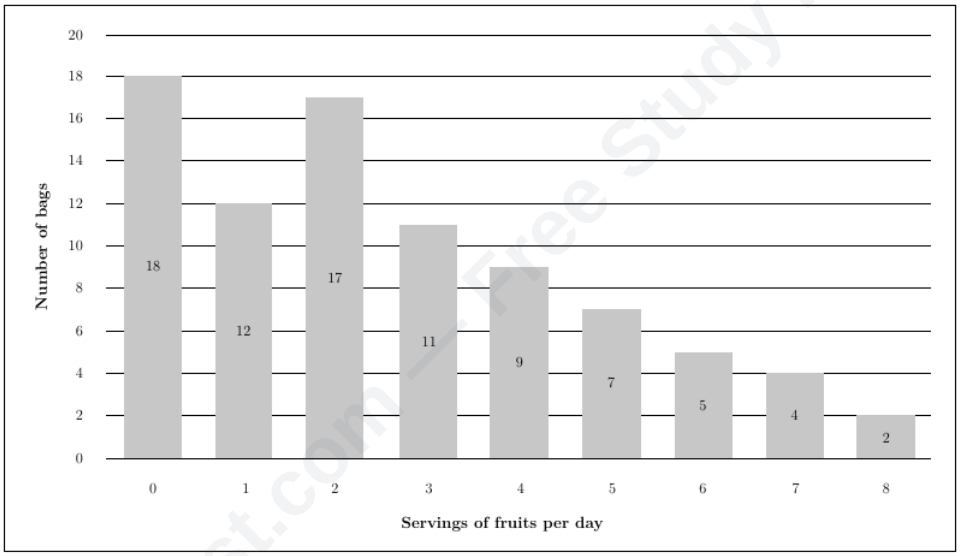
Q5. The marked price of a table is Rs. 10,500, and it was sold for Rs. 9,450. Find the percentage discount for this transaction.

(a) 9%
(b) 9.5%
(c) 10.5%
(d) 10%

Q6. The individual weights (in kg) of six boys are 55, 56, 57, 60, 59 and 55. A new boy joins the group, and the mean weight of the group becomes 62 kg. Find the weight of the new boy (in kg).

(a) 90
(b) 82
(c) 92
(d) 94

Q7. The distribution of fruit consumption in a sample of 85 sixteen-year-old boys is given in the graph below. Study the graph and answer the question that follows.



What percentage of these boys ate five or more servings per day? (Rounded off to 2 decimal places)

(a) 20.04%
(b) 14.32%
(c) 21.18%
(d) 17.13%

Q8. Which of the following is true about average?

(a) The average of six consecutive even integers is an even natural number
(b) The average of six consecutive odd integers is an odd integer.
(c) The average of six consecutive odd integers is an even integer.
(d) The average of six consecutive odd integers is an odd natural number.

Q9. The table below shows the number of students who were admitted in to a university for higher education in engineering, medical sciences and other career programmes over the years from 2012 to 2015.

Year/Number of Students	Number of Students in Engineering Programme	Number of Students in Medical Sciences Programme	Number of Students in Other Career Programmes
2012	570	350	300
2013	850	600	500
2014	700	980	1000
2015	450	900	1200

In which year was the maximum number of students admitted for the medical sciences programme?

(a) 2012
(b) 2014
(c) 2013
(d) 2015

Q10. The number of schools in a city is directly proportional to the population of the city. In 2020, there were 125 schools and the population of the city was 1,80,000. In 2023, the number of schools in the city is 180. What is the percentage increase in the population of the city from 2020 to 2023?

(a) 44%
(b) 42%
(c) 45%
(d) 46%

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Q11. A solid cone of base diameter 20 cm and height 20 cm is melted and recast into a solid metal hemisphere of radius R cm. What is the total surface area (in cm^2, rounded off to 2 decimal places) of the hemisphere? (Take π = 22722722722

(d) 840

Q19. If the cost price of a dozen mangoes is the same as the selling price of nine mangoes, then the percentage of loss or gain is:

(a) gain of 33%
(b) loss of 331/3%
(c) loss of 33%
(d) gain of 331/3%

Q20. Ajit walks around a circular field at the speed of two rounds per hour, while Mohit runs around it at the speed of 10 rounds per hour. They start in the same direction from the same point at 6:30 a.m. Find the time at which they cross each other.

(a) 06 : 37 : 50
(b) 06 : 37 : 20
(c) 06 : 37 : 30
(d) 06 : 40 : 00

Q21. What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

69 − 36 × 6 ÷ 12 + 5 = ?

(a) 129
(b) 136
(c) 128
(d) 130

Q22. In a certain code language, ‘shivam will eat mango’ is written as ‘mu tu gu lu’ and ‘gyan may like mango’ is written as ‘ku gu nu yu’. How is ‘mango’ written in the given language?

(a) nu
(b) tu
(c) ku
(d) gu

Q23. 13 is related to 38 following a certain logic. Following the same logic, 15 is related to 44. To which of the following is 26 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 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(a) 77
(b) 71
(c) 86
(d) 68

Q24. ADKR is related to CBMP in a certain way based on the English alphabetical order. In the same way, GXQL is related to IVS. To which of the following is OPYD related, following the same logic?

(a) QNAB
(b) QANB
(c) QBAN
(d) BANQ

Q25. In a certain code language, 'TASK' is coded as '3762' and 'CAST' is coded as '2436'. What is the code for 'K' in that language?

(a) 2
(b) 6
(c) 7
(d) 4

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Q26. 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 pizzas are burgers.

Some pizzas are sausages.

Conclusions:

(I) At least some sausages are burgers.

(II) Some sausages are pizzas.

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

Q27. 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 statement(s).

Statements:

All ants are balls.

All ants are dolls.

Conclusions:

(I) Some balls are dolls.

(II) All dolls are ants.

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

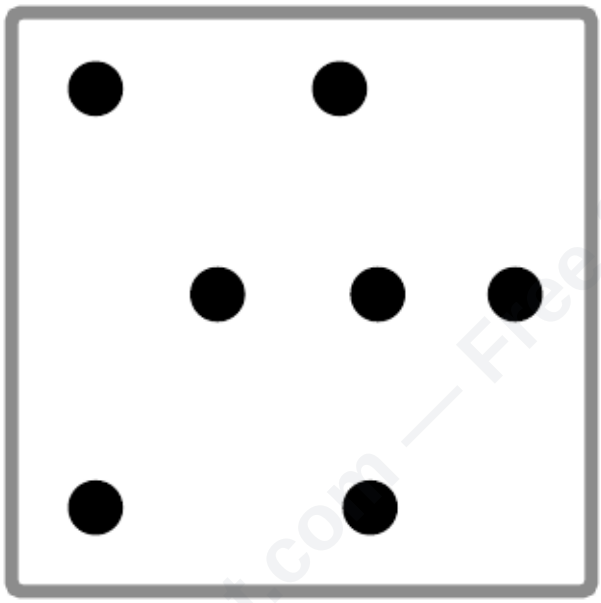
Q28. What should come in place of the question mark (?) in the following series based on the English alphabetical order?

DKO, GJL, JII, MHF, ?

(a) QGB
(b) PGB
(c) QGC
(d) PGC

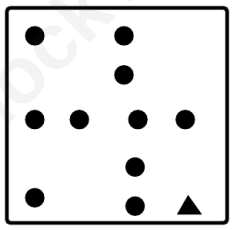
Q29. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

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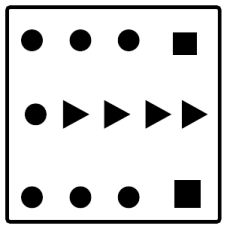


(X)

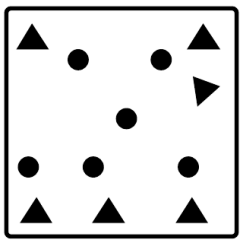
(a)



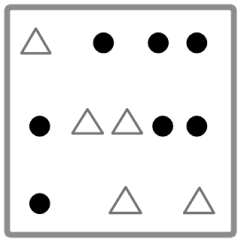
(b)



(c)



(d)

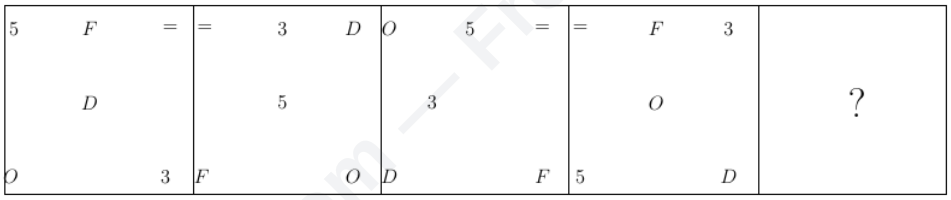


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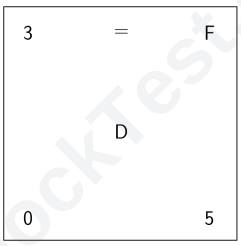
Q30. BI54 is related to XE64 in a certain way. In the same way, DK76 is related to ZG86. To which of the following is FM43 related, following the same logic?

(a) BE35
(b) BI53
(c) EB35
(d) IB53

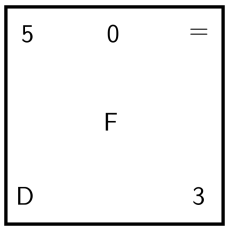
Q31. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.



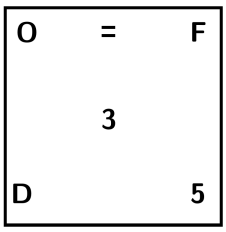
(a)



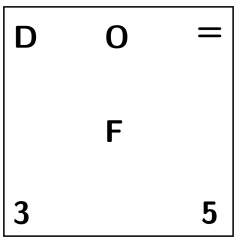
(b)



(c)



(d)



Q32. A, B, C, D, E and F are sitting around a circular table facing the centre (but not necessarily in the same order). F sits third to the left of A. D sits to the immediate left of A. C sits second to the right of A. Only E sits between A and C. When counted from right of A, who sits to the immediate left of B?

(a) C
(b) E
(c) F

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(d) A

Q33. P, Q, R, S, T and U are sitting around a circular table facing the centre (but not necessarily in the same order). R is sitting to the immediate left of P and immediate right of T. Q is sitting to the immediate left of T. U is sitting to the immediate left of Q. P is sitting to the immediate left of S. Who is sitting to the immediate right of S?

(a) T
(b) R
(c) U
(d) Q

Q34. 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. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(34, 22, 63)

(61, 76, 144)

(a) (86, 13, 96)
(b) (45, 41, 93)
(c) (26, 83, 16)
(d) (3, 22, 61)

Q35. What should come in place of the question mark (?) in the given series?

247 258 280 313 357 ?

(a) 426
(b) 401
(c) 412
(d) 388

Q36. In a certain code language, 'HARD' is coded as '1596' and 'CARD' is coded as '5689'. What is the code for 'C' in the given code language?

(a) 5
(b) 9
(c) 6
(d) 8

Q37. In a certain code language, 'joy salt area' is coded as 'sd vt de' and 'area kit care' is coded as 'vt fu pv'. How is 'area' coded in the given language?

(a) de
(b) vt
(c) sd
(d) fu

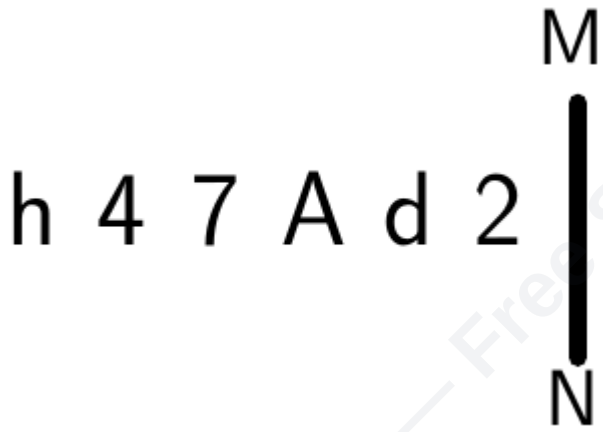
Q38. What will come in the place of '?' in the following equation if '+' and '×' are interchanged and '−' and '÷' are interchanged?

100 − 4 ÷ 7 + 5 × 12 = ?

(a) 2
(b) 6
(c) 5
(d) 4

Q39. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

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(a)



(b)



(c)



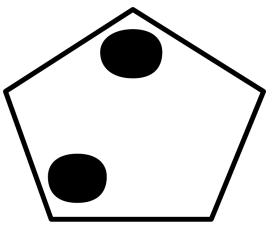
(d)



Q40. Select the figure that can replace the question mark (?) in the following series.

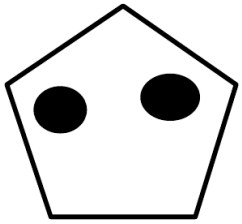


(a)

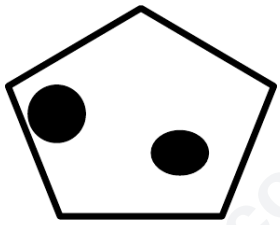


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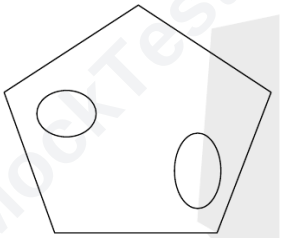
(b)



(c)



(d)



SESSION 2

Q41. The Indian Bureau of Mines (IBM) was established in the year _____.

(a) 1948
(b) 1973
(c) 1985
(d) 1960

Q42. Nife layer of earth is situated in the _____.

(a) Mantle
(b) Crust
(c) Core
(d) Lithosphere

Q43. Which of the following crops that spread to northern India in the early years of the 17th century was NOT mentioned in the Ain-i-Akbari in the lists of crops in northern India?

(a) Tobacco
(b) Wheat
(c) Arhar
(d) Jowar

Q44. Who among the following was the first Law and Justice Minister of independent India?

(a) John Mathai
(b) Jagjivan Ram
(c) BR Ambedkar
(d) Rajkumari Amrit Kaur

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Q45. Which of the following statements is/are correct according to the Census of India-2011?

(a) A person aged seven years or above, who can both read and write with understanding in any language, is treated as literate.

(b) A person who can only read but cannot write is not literate.

(a) Both (a) and (b) are correct
(b) Only (b) is correct
(c) Only (a) is correct
(d) Neither (a) nor (b) is correct

Q46. In May 2023, Prime Minister Narendra Modi has been awarded the highest honours by the Pacific island nations of Papua New Guinea and _____.

(a) Tuvalu
(b) Nauru
(c) Kiribati
(d) Fiji

Q47. Which of the following articles mentions about the Appropriation Bills in the state legislature?

(a) Article 216
(b) Article 204
(c) Article 209
(d) Article 213

Q48. Which of the following pairs is INCORRECTLY matched?

(a) Rule of Law - Britain
(b) Procedure Established by Law - Japan
(c) Concurrent List - Australia
(d) Function of President - France

Q49. Which of the following statements are correct about Ribosomes?

Statement A: Ribosomes have no membrane.

Statement B: Digestive hydrolytic enzymes are present in Ribosomes.

Statement C: These are called suicidal bags.

Statement D: Ribosomes play an important role in protein synthesis.

(a) Only statements A and D
(b) Only statements A and B
(c) Only statements A, B and C
(d) Only statements A and C

Q50. 'Yakshagana', the famous folk dance, is associated with which state?

(a) Kerala
(b) Bihar
(c) Karnataka
(d) Manipur

Q51. The Pradhan Mantri Rojgar Protsahan Yojana (PMRPY) was launched by which Ministry of Government of India in the year 2016?

(a) Ministry of Labour and Employment
(b) Ministry of Housing and Urban Affairs
(c) Ministry of Rural Development
(d) Ministry of Finance

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Q52. The College of Fort William was established at _____ under British rule.

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

Q53. Which of the following is a public sector industry in India?

(a) Tata Iron and Steel Company (TISCO)
(b) Bajaj
(c) Hindustan Unilever Limited
(d) Steel Authority of India Limited (SAIL)

Q54. What cellular structure is responsible for breaking down and recycling cellular components and molecules?

(a) Ribosome
(b) Mitochondrion
(c) Lysosome
(d) Nucleus

Q55. In tennis, what is a 'love' score?

(a) The score when the game is tied
(b) The highest possible score in a game
(c) The score when a player has zero points
(d) The score when a player wins the first point in a game

Q56. Which city hosted the XXII Commonwealth Games 2022?

(a) Glasgow
(b) Birmingham
(c) Gold Coast
(d) Delhi

Q57. 'Getting A Grip: On My Body, My Mind, My Self' is an autobiography by who among the following tennis icons?

(a) Steffi Graf
(b) Anna Kournikova
(c) Maria Sharapova
(d) Monica Seles

Q58. Who is the recipient of Padma Vibhushan 2000 for reviving the Odissi Classical dance form?

(a) Kelucharan Mohapatra
(b) T. Balasaraswati
(c) Pandit Jasraj
(d) Hari Prasad Chaurasia

Q59. Which of the following was the first subcontinental empire?

(a) Satavahana Empire
(b) Mauryan Empire
(c) Kushan Empire
(d) Gupta Empire

Q60. A molecule with the chemical formula C2H6 is a/an _____ molecule.

(a) butane
(b) propane
(c) methane
(d) ethane

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Q61. What are the three components of the empowerment model in SAPAP of SHGs?

(a) Collective empowerment, capital formation, and poverty eradication
(b) Public resource allocation, capacity building, and microfinance
(c) Social mobilisation, capital formation, and capacity building
(d) Social mobilisation, economic development, and education

Q62. The famous Qila-i-Kuhna (mosque of the old fort) was built by:

(a) Sher Shah
(b) Alauddin Khilji
(c) Akbar
(d) Humayun

Q63. Which of the following states launched Mukhya Mantri Vriksh Sampada Yojana in March 2023?

(a) Chhattisgarh
(b) Punjab
(c) Karnataka
(d) Madhya Pradesh

Q64. In which of the following months is the Tuluni festival celebrated in Nagaland by the Sumi tribe?

(a) June
(b) May
(c) August
(d) July

Q65. Which of the following award did Pandit Ravi Shankar win for four times?

(a) The Grammy Awards
(b) The CMA Awards
(c) The BRIT Awards
(d) The International Classical Music Awards

Q66. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

You know that I am fond of reading / and also that all books are my favourite / but you don't know that this is one of / my favourite book.

(a) but you don't know that this is one of
(b) and also that all books are my favourite
(c) my favourite book.
(d) You know that I am fond of reading

Q67. Select the option that correctly rectifies the underlined spelling error.

The worlds you and I belong to are very defferent.

(a) deffirent
(b) diferent
(c) deferent
(d) different

Q68. Select the most appropriate synonym of the given word.

Vague

(a) Dissimilar
(b) Distinct
(c) Indefinite
(d) Intact

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Q69. Select the most appropriate option that can substitute the underlined segment in the given sentence.

He is the healthy person I have ever met in life.

(a) most healthy
(b) more healthy
(c) healthier
(d) healthiest

Q70. Select the grammatically correct sentence from the options given.

(a) Neither the boy nor the mother could identify the man.
(b) Neither the boy nor a mother could identify a man.
(c) Neither a boy nor a mother could identify the man.
(d) Neither a boy nor the mother could identify a man.

Q71. Select the most appropriate ANTONYM of the given word.

Fluctuate

(a) Descend
(b) Steady
(c) Mitigate
(d) Wobble

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

I could make out from my son's voice that he was ____ as his exam did not go well.

(a) abrogated
(b) confused
(c) sad
(d) rejected

Q73. Select the option that can be used as a one-word substitute for the given group of words.

The space or room that is at the top of a building or just below the main roof

(a) Dome
(b) Ceiling
(c) Stairs
(d) Attic

Q74. Select the most appropriate ANTONYM of the given word.

Extensive

(a) Abstract
(b) Limited
(c) Expensive
(d) Concrete

Q75. Select the most appropriate idiom to fill in the blank.

Getting a sudden promotion and increment in my current profile was like _____.

(a) a bolt from the blue
(b) a fish out of water
(c) a ballpark figure
(d) a foul play

Q76. Select the most appropriate meaning of the given idiom.

Once in a blue moon

(a) A regular activity
(b) A frequent event
(c) A rare occurrence
(d) A pleasant surprise

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Q77. 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.

Chetan's room is clean / than Ram's room because / Chetan cleans it more often than Ram.

(a) Chetan cleans it more often than Ram
(b) than Ram's room because
(c) Chetan's room is clean
(d) No error

Q78. The following sentence has been split into four segments. Identify the segment that contains an error.

Stephan, however, contrived / to put away / his departure / for eighteen months.

(a) Stephan,however,contrived
(b) his departure
(c) for eighteen months
(d) to put away

Q79. 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.

Her decision, / given the complex circumstances, / was too impulsively made.

(a) Her decision,
(b) was too impulsively made.
(c) No error
(d) given the complex circumstances,

Q80. Select the INCORRECTLY spelt word.

(a) Phytoplankton
(b) Accentuation
(c) Suppressant
(d) Superanuation

Q81. Select the option with the correct spelling to replace the underlined word in the given sentence.

Development does not take place in a vaccum.

(a) vacuum
(b) vacuem
(c) vakum
(d) vacim

Q82. Select the most appropriate option that can substitute the underlined segment in the given sentence.

We can observed from the poll that the award is likely to go to the horror movie director this year.

(a) can observe from
(b) have been observing of
(c) are observing of
(d) had observe from

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

Amplify

(a) Contract
(b) Enlarge
(c) Exert
(d) Defy

Q84. Select the most appropriate ANTONYM of the given word

Expand

(a) Inflate
(b) Protect

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(c) Shrink
(d) Network

Q85. Select the most appropriate option to fill in the blanks.

Our __ has so many magnificent tourist destinations, with unimaginable potential, yet to __ fully explored.

(a) country; be
(b) state; been
(c) national; have
(d) land; has

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.

She went on a quest for ancient things _(1) could have a soul of their own, something _(2)_ Aladdin's lamp that was home to a genie. She searched flea markets, met with art dealers and even went to excavation sites. She _(3) searching for something that would have seen some ancient history when an _(4)_, _(5)_, _(6)__ apothecary table caught her attention. It was perhaps owned by an (7)__, _(8)_, (9)____ woman who was a wise medic but was deemed a witch.

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

(a) that
(b) who
(c) which
(d) whose

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

(a) like
(b) of
(c) upstairs
(d) by

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

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

Q89. Select the most appropriate option to fill in blanks numbered 4, 5 and 6 respectively.

(a) heavy; antique; chestnut brown
(b) antique; heavy; chestnut brown
(c) antique; chestnut brown; heavy
(d) chestnut brown; antique; heavy

Q90. Select the most appropriate option to fill in blanks numbered 7, 8 and 9 respectively.

(a) small; old; hunch-backed
(b) hunch-backed; old; small
(c) old; small; hunch-backed
(d) small; hunch-backed; old

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

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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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