SSC MTS 2024 Official Paper (Held On: 29 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. The marked price of an item is 50% more than its cost price. The shopkeeper offers two successive discounts of 10% and 15%. What is his profit percentage?

(a) 15%
(b) 15.75%
(c) 12.75%
(d) 14.75%

Q2. If the radius of a right circular cylinder is decreased by 40% and its height is increased by 75%, its volume will be decreased by:

(a) 65%
(b) 57%
(c) 37%
(d) 35%

Q3. The average of 11 consecutive numbers is 30. The smallest number among these is:

(a) 25
(b) 28
(c) 18
(d) 12

Q4. By selling an article for Rs. 20, a dealer makes a profit of 10%. By how much should he increase his selling price (in Rs. , rounded off to two decimal place) so as to make a profit of 25%?

(a) 3.73
(b) 2.73
(c) 4.73
(d) 5.73

Q5. In how many years will Rs. 4,000 invested at the rate of 18% per annum simple interest amounts to Rs. 5,800?

(a) 2
(b) 2.5
(c) 3
(d) 3.5

Q6. Express 29.5% as a ratio in the simplest form.

(a) 59 : 100
(b) 200 : 59
(c) 100 : 59
(d) 59 : 200

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

(a) 580
(b) 680
(c) 640
(d) 600

Q8. If 5 + x, 2x + 7, 6x + 9 and y are in proportion when x = 2, then find the value of y.

(a) 45
(b) 28
(c) 33
(d) 42

Q9. Find the simple interest (in Rs.) on Rs. 4000 as a sum borrowed at 4% per year rate of interest for 2 years.

(a) 320
(b) 360
(c) 280
(d) 260

Q10. An item was sold for Rs. 40 with a profit of 15%. If it were sold for Rs. 36, then what would have been the percentage of profit or loss? (rounded off to 1 decimal places).

(a) Profit 4.7%
(b) Loss 4.5%
(c) Loss 3.7%
(d) Profit 3.5%

Q11. On a circular race track of 2500 m, Sahil and Reena are running in the same direction at speeds of 27 km/h and 45 km/h, respectively. After how much time will they meet each other for the first time?

(a) 450 seconds
(b) 500 seconds
(c) 480 seconds
(d) 530 seconds

Q12. Three cubes of sides 1 cm, 6 cm and 8 cm are melted to form a new cube. Find one-fourth of the surface area of the new cube.

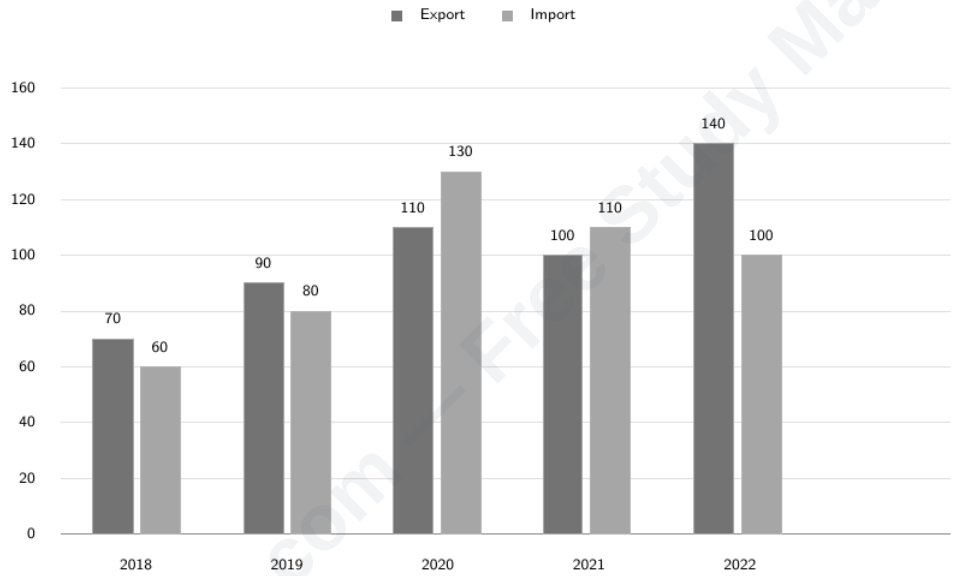
(a) 111.5 cm^2
(b) 121.5 cm^2
(c) 101.5 cm^2
(d) 131.5 cm^2

Q13. The average of 7 numbers is 10.8. If the average of the first three be 10.5 and that of the last three is 11.4, find the value of the middle number.

(a) 9.5
(b) 9.9
(c) 9.8
(d) 9.7

Q14. The following bar graph shows the export and import of goods (in lakh numbers) of a company in consecutive years 2018 to 2022. What will be the growth percentage for imports from 2018 to 2021? (Rounded off to 2 decimal places)

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(a) 83.33%
(b) 88.53
(c) 94.63%
(d) 76.53%

Q15. If P is a prime number, then the LCM of P and its successive number would be:
(a) P/(P+1)
(b) P
(c) P+1
(d) P(P+1)

Q16. The lengths of two sides of a parallelogram are 6 cm and 20 cm. What is the sum of the squares of the diagonals of the parallelogram (in cm^2)?
(a) 728
(b) 782
(c) 872
(d) 800

Q17. The given table shows the percentage of marks obtained by two students in three different subjects in a college. (Maximum marks are given in brackets)

Subject / Student	Physics (175)	Chemistry (130)	Mathematics (150)
Anil	52	85	73
Vidya	72	78	92

Find the total marks obtained by Anil and Vidya together in Physics.
(a) 267
(b) 287
(c) 217
(d) 317

Q18. The average of 10 observations is 46. It was realised later that an observation was misread as 42 in place of 142. Find the correct average.
(a) 54
(b) 45

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(c) 65
(d) 56

Q19. Two trains of lengths 108 metre and 112 metre are running at speeds of 45 km/h and 54 km/h, respectively, towards each other on parallel tracks. In how many seconds will they cross each other?
(a) 8 seconds
(b) 10 seconds
(c) 12 seconds
(d) 9 seconds

Q20. The average age of 6 children and their father is 13 years, and this average is reduced by 4 years if the father is excluded. How old is the father?
(a) 38 years
(b) 41 years
(c) 37 years
(d) 42 years

Q21. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
BCD, FGH, JKL, NOP, ?
(a) QSR
(b) QRS
(c) RQS
(d) RST

Q22. In a certain code language, 'ORANGE' is written as 'LIZMTV' and 'PURPLE' is written as 'KFKIKOV'. What is the code for 'MAGENTA' in the given code language?
(a) NZTVMGZ
(b) NZSVMGZ
(c) NZTVMHZ
(d) NZTVNGZ

Q23. What should come in place of the question mark (?) in the following series?
263, 268, 278, 293, 313, ?
(a) 340
(b) 338
(c) 339
(d) 341

Q24. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. 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, 24
85, 75
(a) 66, 56
(b) 54, 52
(c) 36, 32
(d) 42, 31

Q25. In a certain code language, 'she can sing' is written as 'dq tk dp' and 'sing with me' is written as 'az dq js'. How is 'sing' written in the given language?
(a) tk
(b) dq
(c) dp

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(d) az

Q26. S, U, B, J, E, C and T are sitting around a circular table facing the center (but not necessarily in the same order). C is sitting to the immediate right of T. U is an immediate neighbour of both T and E. Only one person is sitting between C and S when counted from the right of C. B is sitting to the immediate left of E. Who are the immediate neighbours of J?

(a) U and B
(b) S and E
(c) S and C
(d) B and E

Q27. 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:

Some metres are litres.

No litre is a gram.

Conclusions

(I) Some grams are not metres

(II) All grams being metres is a possibility.

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

Q28. What will come in place of the question mark (?) of the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

17 – 9 + 20 × 4 ÷ 5 = ?

(a) 15
(b) 26
(c) 1
(d) 20

Q29. In a certain code language, 'rose are similar' is written as 'ki ko ku' and 'rose has thorns' is coded as 'ke ki ka'. How is 'rose' coded in that language?

(a) ku
(b) ko
(c) ki
(d) ka

Q30. 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:

Some books are notes.

All notes are copies.

Conclusions:

(I) Some books are copies.

(II) No books is copies.

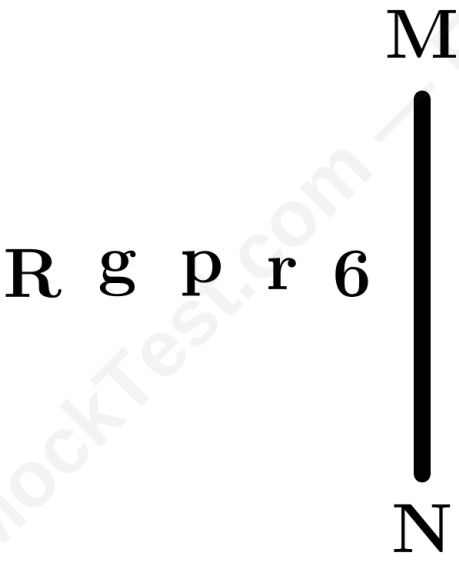
(a) Neither conclusion (I) nor (II) follows.
(b) Both conclusions (I) and (II) follow.
(c) Only conclusion (II) follows.
(d) Only conclusion (I) follows.

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Q31. AS 9 is related to UU 2 in a certain way. In the same way, BT 6 is related to VV −1. To which of the following is HG 9 related, following the same logic?

(a) BG −2
(b) AI 2
(c) AJ 2
(d) BI 2

Q32. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)

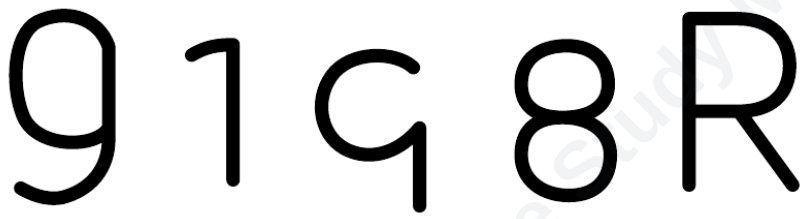


(c)

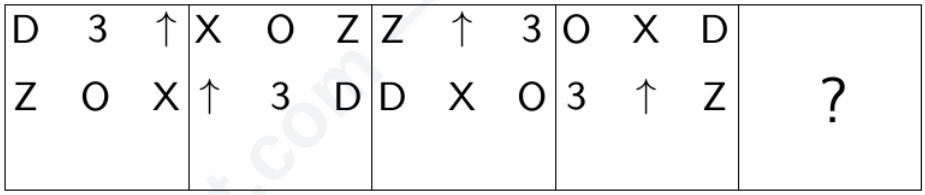


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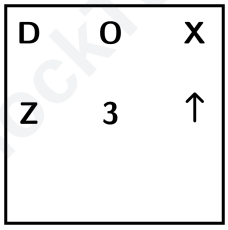
(d)



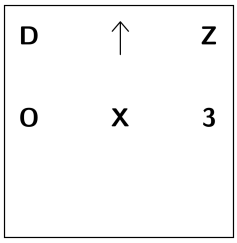
Q33. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.



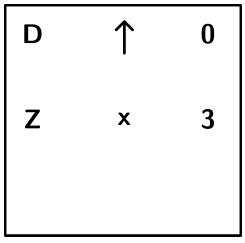
(a)



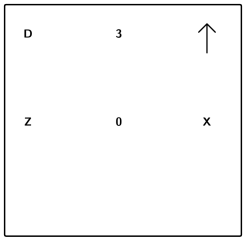
(b)



(c)



(d)



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Q34. TOVR is related to UPWS in a certain way based on the English alphabetical order. In the same way, QLSO is related to RMTP. To which of the following is NIPL related following the same logic?

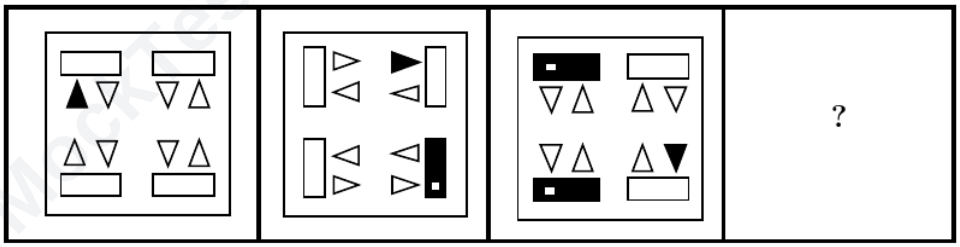
(a) OJQM
(b) OJMQ
(c) JOMQ
(d) JQOM

Q35. 23 is related to 62 following a certain logic. Following the same logic, 37 is related to 104. To which of the following is 19 related, following the same logic?

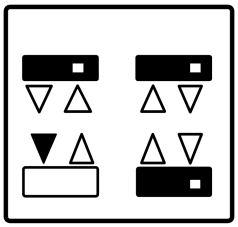
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and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

(a) 42
(b) 57
(c) 50
(d) 38

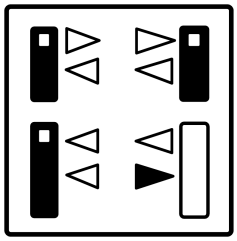
Q36. Select the figure from among the following options that can replace the question mark (?) in the given series



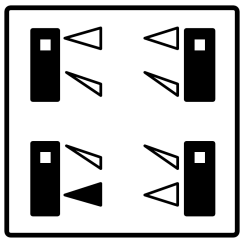
(a)



(b)

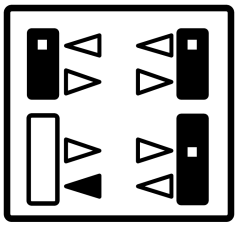


(c)



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(d)



Q37. What will come in the place of the question mark '?' in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

39 + 3 ÷ 12 − 33 × 11 =?

(a) 5
(b) 3
(c) 4
(d) 6

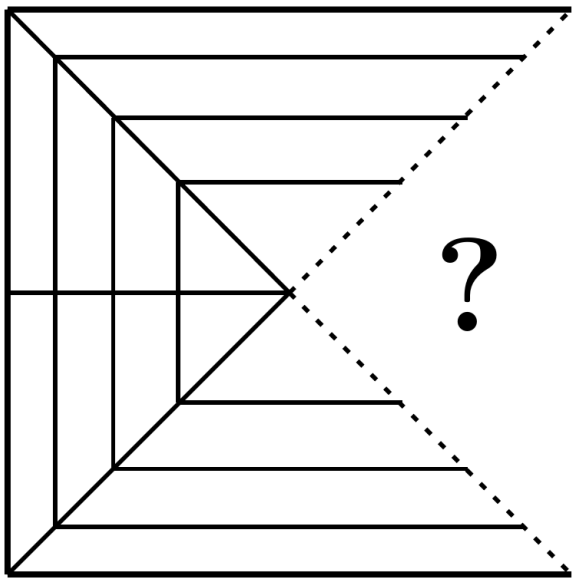
Q38. P, Q, R, S, T and U are six friends sitting around a circular table, facing the centre (but not necessarily in the same order), having their breakfast. U is sitting exactly between Q and S and is third to the right of T. R is sitting to the immediate left of S. Who is the immediate neighbour of both P and R?

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

Q39. In a certain code language, 'written on paper' is written as 'ma rc gp' and 'paper and pen' is writtenas 'hk ma bo'. How will 'paper' be written in that language?

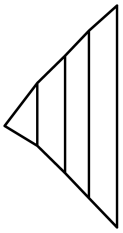
(a) hk
(b) gp
(c) bo
(d) ma

Q40. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

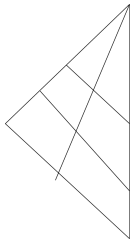


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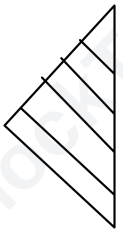
(a)



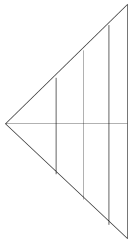
(b)



(c)



(d)



SESSION 2

Q41. Who among the following is the author of the autobiography 'Lone Fox Dancing: My Autobiography'?

(a) Khushwant Singh
(b) Brij Mohan Kaul
(c) Ruskin Bond
(d) John Dalvi

Q42. In which of the following years did the battle of Plassey take place?

(a) 1776
(b) 1787
(c) 1796
(d) 1757

Q43. Vedantam Satyanarayana Sarma is associated with which of the following dances?

(a) Odissi
(b) Kathakali
(c) Kuchipudi
(d) Mohiniyattam

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Q44. _____ was/were the mascot(s) of the Women's Asian Hockey Champions Trophy in 2023.

(a) Hansa
(b) Juhi
(c) Blaze and Tonk
(d) Yashi

Q45. Sanchi stupa was rediscovered in the year _____ by General Henry Taylor.

(a) 1819
(b) 1818
(c) 1817
(d) 1816

Q46. In November 2023, who was appointed as the Chief Information Commissioner of India?

(a) Heeralal Samariya
(b) Randeep Guleria
(c) Rajiv Gauba
(d) Arvind Subramanian

Q47. Stunted growth, which is common in children growing up in extreme poverty, is a sure sign of _____.

(a) Lack of Clothing
(b) Sleep Deprivation
(c) Undernutrition
(d) Lack of Housing

Q48. Which Indian actress from the following, is also a popular dancer and received the Smita Patil Memorial award for her role in the movie Damini?

(a) Madhuri Dixit
(b) Jaya Prada
(c) Rekha
(d) Meenakshi Seshadri

Q49. In which of the following cities was the headquarters of Theosophical Society established in British India?

(a) Ayanavaram
(b) Adyar
(c) Ashok Nagar
(d) Alandur

Q50. If the server manages to land a legal serve and the receiver is unable to return the ball, it is known as an ace and the server gets the point. Which of the following sport is referred here?

(a) Tennis
(b) Wrestling
(c) Boxing
(d) Shooting

Q51. At which of the following places is the Lalbagh Flower Show organised, where thousands of flower varieties are put on display in different forms with a particular theme (which changes every year) during the exhibition?

(a) Patna
(b) Hyderabad
(c) Patiala
(d) Bengaluru

Q52. According to Census of India 2011, which is the largest religious community in India?

(a) Christians
(b) Muslims
(c) Hindus

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(d) Sikhs

Q53. The Narora _____ Power Station is located in Uttar Pradesh.

(a) Natural Gas
(b) Wind
(c) Atomic
(d) Thermal

Q54. Which of the following Union Territories of India marks the lowest poverty in National Multidimensional Poverty Index: A Progress Review 2023?

(a) Puducherry
(b) Lakshadweep
(c) Delhi
(d) Chandigarh

Q55. To which of the following classes of compounds does cyclohexane belong?

(a) Non-benzenoid aromatic compound
(b) Heterocyclic compound
(c) Benzenoid aromatic compound
(d) Alicyclic compound

Q56. Groundwater is an important source of water. The top level of the groundwater layer is called:

(a) sea level
(b) water table
(c) underground water
(d) well

Q57. Women's Reservation Bill 2023 [The Constitution (One Hundred Twenty-Eighth Amendment) Bill, 2023] was introduced in Lok Sabha on _____.

(a) 20 Sep 2023
(b) 22 Sep 2023
(c) 21 Sep 2023
(d) 19 Sep 2023

Q58. Which of the following Parts of the Indian Constitution mentions about the relations between the Union and the States?

(a) Part VIII
(b) Part XI
(c) Part X
(d) Part VII

Q59. Where of the following was Bal Gangadhar Tilak's Home Rule Movement active?

(a) Bihar
(b) Maharashtra
(c) Madras
(d) Punjab

Q60. When did Bindusara ascend the Maurya throne?

(a) 297 BCE
(b) 299 BCE
(c) 321 BCE
(d) 301 BCE

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Q61. Which of the following is NOT a service of micro finance institution?

(a) Micro saving
(b) Micro deposit
(c) Micro loan
(d) Micro insurance

Q62. Which Hindustani classical musician is credited with popularising the Sarangi as a solo classical instrument?

(a) Pandit Jnan Prakash Ghosh
(b) Pandit Ravi Shankar
(c) Pandit Ram Narayan
(d) Pandit Shiv Kumar Sharma

Q63. Which of the following Articles of the Constitution of India provides for the promotion of international peace and security?

(a) Article 47
(b) Article 44
(c) Article 51
(d) Article 49

Q64. The 'Mangla' oil field is located in which district of Rajasthan?

(a) Kota
(b) Jaipur
(c) Bharatpur
(d) Barmer

Q65. By what name is the species of Scaphopoda Mollusca 'Dentalium' commonly known?

(a) Tusk shells
(b) Heart clam
(c) Head foot
(d) Duck mussel

Q66. Select the most appropriate option to fill in the blank.

She had a _____ for creating beautiful artwork.

(a) mode
(b) post
(c) trigger
(d) talent

Q67. Select the most appropriate meaning of the given phrase.

Reading between the lines

(a) Understanding a deeper or hidden meaning
(b) Avoiding reading and engaging in gossips
(c) Taking things literally
(d) Reading a book

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

Meticulous

(a) Negligent
(b) Precise
(c) Careless
(d) Random

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Q69. Select the most appropriate option to fill in the blank.

The sudden plot twist in the story added an element of _____ that kept readers on the edge of their seats.

(a) ambiguity
(b) redundancy
(c) monotony
(d) predictability

Q70. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The soldiers / sacrifice their lives / to guarding / the nation and its boundaries.

(a) The soldiers
(b) the nation and its boundaries
(c) to guarding
(d) sacrifice their lives

Q71. Select the INCORRECTLY spelt word.

(a) Belligerent
(b) Eficcient
(c) Tournament
(d) Parliament

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

One who is a newcomer

(a) Neophyte
(b) Polyglot
(c) Narcissist
(d) Nepotist

Q73. Identify the most appropriate ANTONYM of the word in brackets.

The teacher commended the student for his (diligent) efforts.

(a) Lazy
(b) Hardworking
(c) Industrious
(d) Conscientious

Q74. Select the most appropriate synonym of the underlined word in the following sentence.

She is an epitome of grace.

(a) Example
(b) Admirer
(c) Believer
(d) Destroyer

Q75. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The dog / eager wagged / its tail when / it saw its owner.

(a) The dog
(b) It saw its owner
(c) eager wagged
(d) its tail when

Q76. Select the correct idiom to substitute the underlined segment in the following sentence.

Roma was the dearest child to her mother.

(a) At sixes and sevens with her parents
(b) The apple of her parents' eyes
(c) The star of her parents' eyes
(d) The body and soul of her parents

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Q77. Select the correctly spelled sentence.

(a) The librarian told the childern to return their books by Fryday.
(b) The librarian told the children to return their books by Friday
(c) The libraian told the childrean to return their books by Friday.
(d) The liberian told the childrean to return their boooks by Friday.

Q78. Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.

The _____ (sarcastic) comments by her husband made her feel uncomfortable, and she decided to walk out of the relationship.

(a) gracious
(b) ruinous
(c) ambiguous
(d) harmonious

Q79. Change the following into superlative degree.

She is taller than other girls in the class.

(a) No other girl in the class is as tall as she.
(b) In the class she is taller than other girls.
(c) She is tall girl in the class.
(d) She is the tallest girl in the class.

Q80. Parts of the following sentence have been given as options. Select the option that contains an error.

The 100-year-old banyan was blown off in the storm last night.

(a) was blown off
(b) The 100-year-old banyan
(c) last night
(d) in the storm

Q81. The following sentence has been split into four segments. Identify the segment that contains a grammatical/spelling error. According to Mr. Sharma / the news have come / as another blow / to the family members.

(a) the news have come
(b) as another blow
(c) According to Mr. Sharma
(d) to the family members

Q82. Select the INCORRECTLY spelt word.

Majority of communication satelites are placed in geostationary orbits around the earth, which means that their speed matches the rate of its rotation.

(a) Satelites
(b) Communication
(c) Rotation
(d) Geostationary

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

The speaker delivered an engaging speech that inspired the audience.

(a) dreary
(b) important
(c) captivating
(d) unnecessary

Q84. Select the most appropriate option that can substitute the underlined segment in the given sentence.

The teacher called up the class due to the sudden snowstorm.

(a) called off the class
(b) called out the class

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(c) called on the class
(d) called in the class

Q85. Select the appropriate option that can substitute the underlined word in the following sentence to make it grammatically correct.

Meerut is farthest from Delhi.

(a) farther
(b) far
(c) more farther
(d) most farthest

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.

Despite her background role in the past, Ms Navalnaya has always been a crucial supporter of (1)..... husband and was instrumental in getting him out of Russia for (2)..... treatment when he was poisoned with Novichok nerve agent in 2020. She has been (3)..... as the 'First Lady' of the Russian opposition. And Alexei said himself that he could not continue his increasingly desperate and one sided fight against the Kremlin without her. Their very public love story and family life - they have two children - (4)..... seen as an inspiration for their supporters. Yulia Ambrosimova was born in Moscow in 1976, daughter of the respected scientist Boris Ambrosimov. As economics graduate, she had a career in banking but (5)..... her job to bring up their two children when Alexei rose to prominence as an opposition politician.

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

(a) her
(b) their
(c) hers
(d) them

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

(a) slow
(b) crazy
(c) urgent
(d) interesting

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

(a) described
(b) detected
(c) deleted
(d) changed

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

(a) is been
(b) has been
(c) was being
(d) will been

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

(a) keep back
(b) broke down
(c) gave up
(d) brought about

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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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