SSC MTS 2024 Official Paper (Held On: 18 Oct, 2024 Shift 1) (Previous Year Paper)

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

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SESSION 1

Q1. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 67 kg and 39 kg is:

(a) 52.2
(b) 49.2
(c) 50.2
(d) 51.2

Q2. What is the mean proportional between 9 and 25?

(a) 17
(b) 15
(c) 34
(d) 16

Q3. By selling an article for Rs. 19.5, a dealer makes a profit of 30%. By how much should he increase his selling price (in Rs.) so as to make a profit of 50%?

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

Q4. The average of some natural numbers is 27. If 69 is added to the first number and 12 is subtracted from the last number, the average becomes 32.7, then the number of natural numbers is:

(a) 8
(b) 7
(c) 5
(d) 10

Q5. A shopkeeper sells a notebook that has a marked price of Rs. 80 at a discount of 8% and gives a pen costing Rs. 8.60 free with each notebook. Even then he makes a profit of 17%. Find the cost price of each note book correct to two places of decimals.

(a) Rs. 49.75
(b) Rs. 45.35
(c) Rs. 55.56
(d) Rs. 51.32

Q6. A thief is spotted by a policeman from a distance of 400 metres. When the policeman starts to chase the thief also starts running. If the speed of the thief is18 km/h and that of the policeman 20 km/h, then how far would the thief have run before he is overtaken?

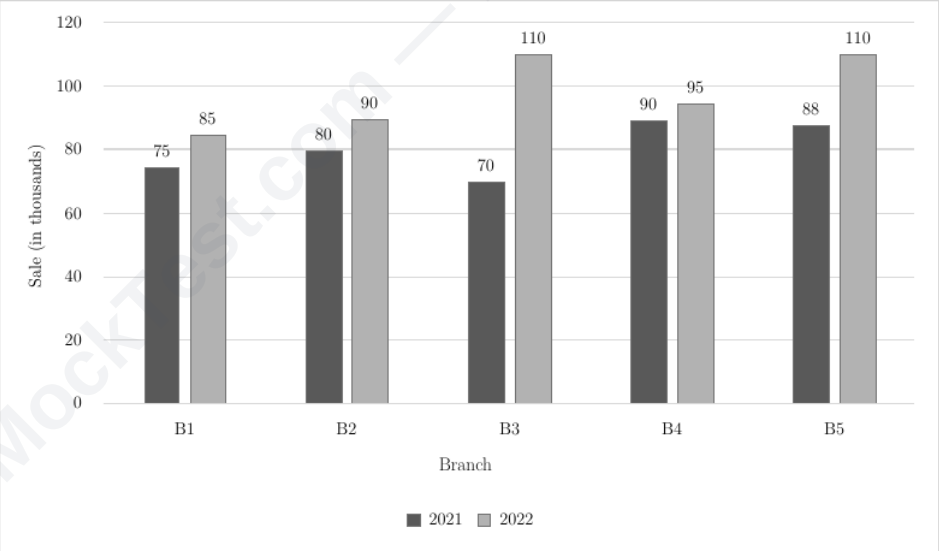
(a) 1.8 km
(b) 3.6 km
(c) 9 km

(d) 2.5 km

Q7. An iron ball of radius 20 cm is melted and recast into 64 spherical balls of same radius. Find the radius of each spherical ball.

(a) 5 cm
(b) 2.8 cm
(c) 3.6 cm
(d) 4.7 cm

Q8. The bar graph given below shows the sale of toys (in thousands) from five branches of a manufacturer for two consecutive years.



Total sales of branch B4 for both years is what percentage of the total sales of branch B2 for both years? (up to two decimal places)

(a) 108.82%
(b) 91.89%
(c) 85.85%
(d) 116.47%

Q9. Pushkar buys an article for Rs. 27.50 and sells it for Rs. 28.60. Find his gain percentage.

(a) 7%
(b) 6%
(c) 3%
(d) 4%

Q10. Find the simple interest (in Rs.) on Rs. 3500 as a sum borrowed at 7% per year rate of interest for 2 years.

(a) 530
(b) 430
(c) 490
(d) 450

Q11. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 6% per year rate of interest for 6 years.

(a) 860
(b) 900
(c) 840
(d) 940

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Q12. The price of a product increased by 20%. After some time, it decreased by 15%. What is the overall percentage change in the price?

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

Q13. Two bicycle riders started at a speed of 7 m/sec and 8 m/sec on a circular path in opposite directions at the same point. If the circumference of the circle is 300 m, then in what time will they first meet?

(a) 24 sec
(b) 12 sec
(c) 20 sec
(d) 30 sec

Q14. The external curved surface area of a metallic hemispherical bowl is 308 cm^2. If the density of metal is 8.7 gm per cm^3, then the mass of the bowl is equal to:

(use $\pi = 22/7$)

(a) 6254.2 gm
(b) 6252.4 gm
(c) 5262.4 gm
(d) 5264.2 gm

Q15. From a square with area a^2 another square made on mid points of the sides of the square is removed. What is the area left in the square?

(a) $(a^2)/2$
(b) $(2a^2)/3$
(c) $(a^2)/4$
(d) $(3a^2)/4$

Q16. The average of five numbers is 206. The average of two of them is 205. The average of another two of those numbers is 207.5. How many numbers can be accurately identified with this information?

(a) Two
(b) None
(c) One
(d) Three

Q17. There are five persons with weights 58 kg, 38 kg, 45 kg, 34 kg and 55 kg. What is the average weight (in kg) of those persons whose weight is less than the average weight of the five persons?

(a) 43
(b) 37
(c) 41
(d) 39

Q18. x, y and z are divisible by 2, 3 and 4, respectively. What is the highest common factor (HCF) of 6x, 4y and 3z?

(a) At least 36
(b) At least 12
(c) At least 18
(d) At least 16

Q19. Consider the production of three products, A, B and C, by three companies, X, Y and Z, in the given table.

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Product → / Company ↓	A	B	C
X	100	115	95
Y	120	80	90
Z	70	110	120

Productions of how many products by company Y are more than the average production of all the products by company Y?

(a) 3
(b) 2
(c) 1
(d) 0

Q20. What sum of money, when lent at 6% for 4 years, will produce the same interest as Rs. 800 earns in 5 years at 41/2% %?

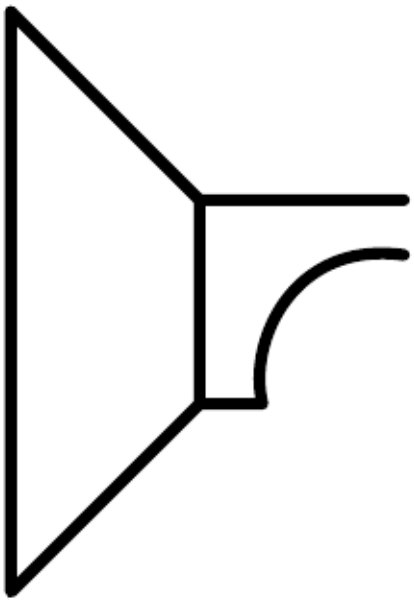
(a) Rs. 750
(b) Rs. 700
(c) Rs. 650
(d) Rs. 625

Q21. What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

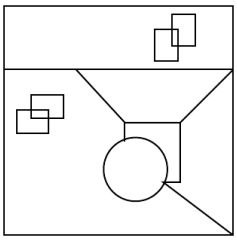
4 ÷ 8 × 2 − 7 +3 = ?

(a) 15
(b) 20
(c) 18
(d) 16

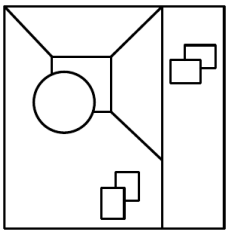
Q22. Select the option in which the given figure is embedded (rotation is NOT allowed).



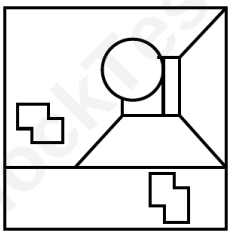
(a)



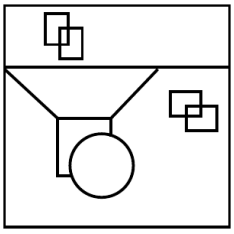
(b)



(c)



(d)



Q23. In a certain code language, 'will you go' is written as 'ht dt gt' and 'you can go' is written as 'gt st dt'. How will 'can' be written in the given code language?

(a) st
(b) gt
(c) dt
(d) ht

Q24. U, V, W, X, Y, Z and A are sitting around a circular table facing the centre (but not necessarily in the same order). Only three people sit between X and Y when counted from the left of X. Only three people sit between Z and U when counted from the right of U. V sits to the immediate right of Z. W is an immediate neighbour of U as well as Y. Who sits to the second to the left of A?

(a) Y
(b) W
(c) U
(d) Z

Q25. 15 is related to 92 following a certain logic. Following the same logic, 18 is related to 110. To which of the following is 7 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.)

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(a) 76
(b) 67
(c) 44
(d) 56

Q26. 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 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, 38, 11)

(3, 20, 7)

(a) (2, 52, 32)
(b) (1, 26, 12)
(c) (4, 14, 2)
(d) (3, 20, 5)

Q27. In a certain code language, 'does she hear' is written as 'mt sp dt' and 'hear the music' is written as 'rb mt ch'. What is the code for 'hear' in that language?

(a) sp
(b) mt
(c) ch
(d) rb

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

135 × 5 – 12 ÷ 11 + 8 = ?

(a) 151
(b) 121
(c) 136
(d) 169

Q29. Six boys A, B, C, D, E and F sit around a circular table facing towards the centre (not necessarily in the same order). Two boys sit between B and F when counted either from the right or left of B. One boy sits between A and B when counted from the right of A. E sits second to the left of A. D sits second to the left of C.

Which of the following statement(s) is/are not correct?

I. A is an immediate neighbour of D.

II. C is an immediate neighbour of F.

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

Q30. 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 bowling are billiards.

Some billiards are not chess.

Conclusions:

[1] All chess are bowling.

[2] All billiards are chess.

(a) Only conclusion [1] follows
(b) Only conclusion [2] follows
(c) Both conclusions [1] and [2] follow

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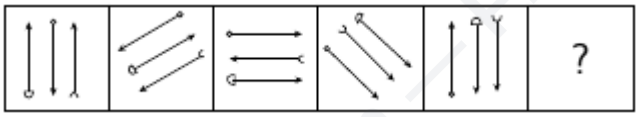
(d) Neither conclusion [1] nor [2] follows

Q31. What should come in place of the question mark (?) in the following series?

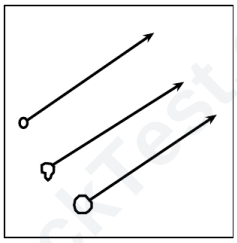
4, 10, 28, 82, 244, ?

(a) 730
(b) 731
(c) 734
(d) 732

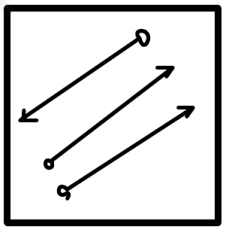
Q32. Select the figure from among the given options that can replace the question mark (?) in the following series.



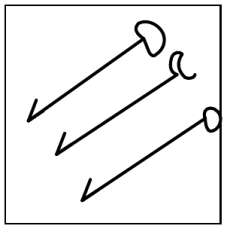
(a)



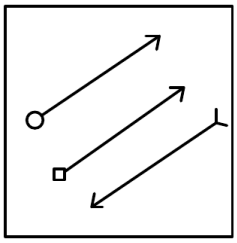
(b)



(c)

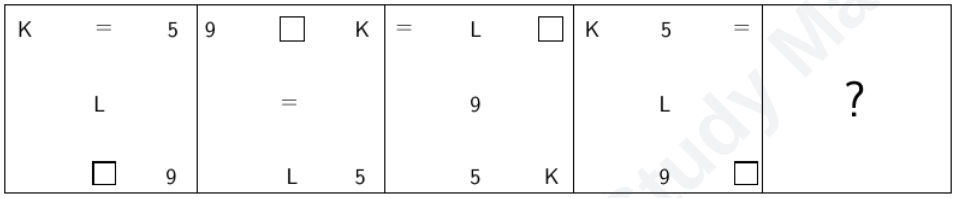


(d)

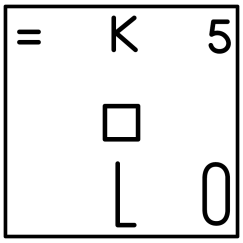


Q33. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.

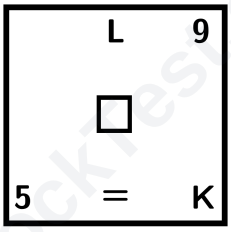
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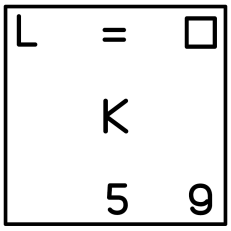
(a)



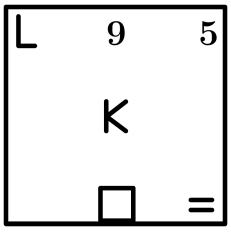
(b)



(c)



(d)



Q34. 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:

(i) No child is a man.

(ii) No man is an adult.

Conclusions:

(I) Some men are child.

(II) No child is an adult.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both conclusions I and II follow

(d) Neither conclusion I nor II follow

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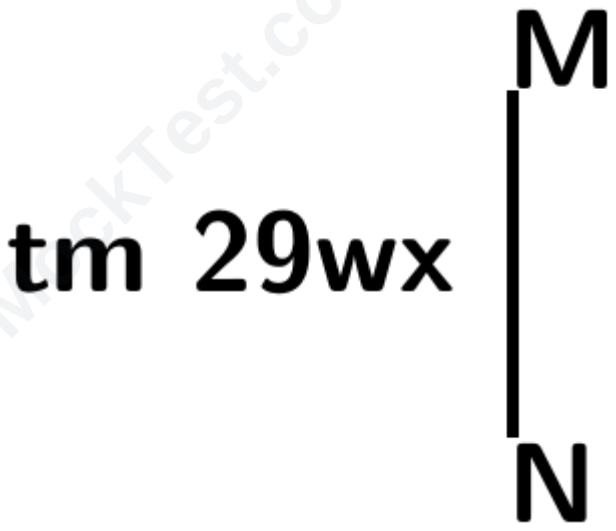
Q35. In a certain code language, ‘BOAT’ is coded as ‘5197’ and ‘AIRS’ is coded as ‘2418’. What is the code for ‘A’ in the given code language?

(a) 1
(b) 2
(c) 9
(d) 4

Q36. In a certain code language, 'SAND' is coded as '2468' and 'WEST' is coded as '3574'. What is the code for 'S' in the given code language?

(a) 4
(b) 2
(c) 8
(d) 7

Q37. 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)



Q38. KPMI is related to LQNJ in a certain way based on the English alphabetical order. In the same way, NSPL is related to OTQM. To which of the following is RWTP related, following the same logic?

(a) SXQU
(b) XSUQ
(c) SXUQ
(d) XSQU

Q39. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

DXZ, HTV ,LPR ,PLN, ?

(a) SHJ
(b) SHK
(c) THJ
(d) THK

Q40. HOJF is related to IPKG in a certain way based on the English alphabetical order. In the same way, KRMI is related to LSNJ. To which of the following is MTOK related following the same logic?

(a) NUPL
(b) UNPL
(c) NULP
(d) UNLP

SESSION 2

Q41. With reference to agriculture in India, the term 'penda' is the name given to _____.

(a) agricultural season
(b) tea farming
(c) slash and burn agriculture
(d) plantation agriculture

Q42. Which of the following states has the lowest child sex ratio according to Census of India, 2001?

(a) Uttarakhand
(b) Haryana
(c) Kerala
(d) Himachal Pradesh

Q43. Which of the following is the first event in a triathlon?

(a) Putting the shot
(b) Cycling
(c) Running
(d) Swimming

Q44. 'Ace Against Odds' is the autobiography of a sports personality playing the game of _____.

(a) Shooting
(b) Badminton
(c) Tennis
(d) Cricket

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Q45. As per Census 2011, which of the following states recorded negative growth in child sex ratio?

(a) Maharashtra
(b) Himachal Pradesh
(c) Punjab
(d) Haryana

Q46. The excavated ruins of the Nalanda University indicate that bright red _____ was/were used in its construction.

(a) stone
(b) bricks
(c) granite
(d) marble

Q47. Which of the following factors is primarily responsible for soil formation?

(a) Weathering
(b) Irrigation
(c) Degradation
(d) Mining

Q48. In January 2023, three Indian-origin researchers were among nine scientists named recipients of the Blavatnik Awardsfor Young Scientists in the UK. Which of the following is NOT one of these three scientists?

(a) Mehul Malik
(b) Rahul R Nair
(c) Tanmay Bharat
(d) Gagandeep Kang

Q49. Shovana Narayan, a Padma Shri recipient, is an exponent of _____.

(a) Kuchipudi
(b) Sattriya
(c) Bharatanatyam
(d) Kathak

Q50. According to sympatric speciation, the rising of a new species occurs when:

(a) one species is separated into different groups due to geologic events like mountain formation
(b) organisms from the same species start to show different behavioural characteristics
(c) two groups of the same species cannot interbreed among themselves despite living in the same geographic location
(d) the two groups of organisms from the same species would phenotypically look different

Q51. Despite being eligible for the job of a Legal Officer, Mr. X was not called for an interview for the aforementioned post. Which of his rights was Mr. X unable to exercise?

(a) Equality before law
(b) Protection against arrest
(c) Right to education
(d) Equality of opportunity

Q52. Which of the following cultural festivals of Himachal Pradesh is organised on the auspicious occasion of Basant Panchami at Hadimba Temple?

(a) Bisua
(b) Doongri
(c) Mopin
(d) Ziro

Q53. In May 2023, the Union Housing and Urban Affairs Ministry has extended the deadline of its Smart Cities Mission to _____.

(a) June 2027
(b) June 2026

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(c) June 2024
(d) June 2025

Q54. Where was the Hindustani classical singer Kumar Gandharva born?
(a) Tamil Nadu
(b) Tripura
(c) Odisha
(d) Karnataka

Q55. Who among the following scholars gave reference to the history of Kashmir?
(a) Banbhatta
(b) Kalidas
(c) Harsha
(d) Kalhana

Q56. The author of 'Arthashastra' was a contemporary of which of the following rulers?
(a) Chandragupta Maurya
(b) Samudragupta
(c) Chandragupta Vikramaditya
(d) Ashoka

Q57. In which of the following years was the Child Marriage Restraint Act passed?
(a) 1902
(b) 1872
(c) 1929
(d) 1856

Q58. Sunil Chhetri made history by becoming the first Indian to score a hat-trick in the Hero ISL, which came in the _____ edition.
(a) 2015
(b) 2014
(c) 2013
(d) 2016

Q59. The classical dance form 'Kathakali' traces its origin to which of the following states of India?
(a) Kerala
(b) Odisha
(c) Andhra Pradesh
(d) Tamil Nadu

Q60. What is the primary function of the excretory system in animals?
(a) Respiration
(b) Removal of waste products
(c) Digestion
(d) Reproduction

Q61. Article 157 of the Constitution of India mentions the qualifications required for appointment of the _____ of State.
(a) Chief Minister
(b) Election Commissioner
(c) Chief Justice of High Court
(d) Governor

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Q62. Which of the following is NOT an example of public goods?

(a) National defence
(b) Driveway at our home
(c) Law enforcement
(d) Access to clean air

Q63. At which of the following places was the Indian Civil Service Examination held for the first time in India?

(a) Calcutta
(b) Surat
(c) Allahabad
(d) Delhi

Q64. The Pitti Bird Sanctuary is located in which Union Territory/State of India?

(a) Tamil Nadu
(b) Lakshadweep
(c) Andaman and Nicobar Islands
(d) Manipur

Q65. Which inorganic compound is known to undergo solid state reaction to form urea?

(a) Ammonium cyanate
(b) Ammonium phosphate
(c) Ammonium acetate
(d) Ammonium nitrate

Q66. Select the correct option of the given sentence.

Smt. Savithri is wisest than all others in the group.

(a) Smt. Savithri is the wiser than all others in the group.
(b) Smt. Savithri is wise than all others in the group.
(c) Smt. Savithri is wiser than all others in the group.
(d) Smt. Savithri is the wise than all others in the group.

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

The teacher asked the students to stay _____ during the exam.

(a) quite
(b) quiet
(c) quote
(d) quit

Q68. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

He received the best employee award because he was the more hardworking.

(a) hardworking
(b) most hardworking
(c) No improvement required
(d) the hardworking

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

Due to _____ 'eve teasing', parents conclude that it is not worth the danger of sending their daughters to school.

(a) rectified
(b) narrow
(c) localised
(d) widespread

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Q70. Select the word that has the same meaning (SYNONYM) as the underlined word in the given sentence.
The teacher made judicious use of technology to explain a sensitive topic.
(a) difficult
(b) prominent
(c) prudent
(d) judgmental

Q71. Read the following sentence and select its future tense form from the options given below:
Ramya finished her dissertation early.
(a) Ramya had finished her dissertation early.
(b) Ramya will finish her dissertation early.
(c) Ramya has finished her dissertation early.
(d) Ramya is finishing her dissertation early.

Q72. Select the most appropriate option that can substitute the underlined segment in the given sentence.
He possesses one of the slimmer handsets in the world.
(a) most slim
(b) slimmest
(c) most slimmest
(d) slim

Q73. Select the INCORRECTLY spelt word.
(a) Exhilerate
(b) Incorrigible
(c) Mischievous
(d) Amendment

Q74. Select the most appropriate option to substitute the underlined segment in the given sentence.
The branches of the tree is very long.
(a) had
(b) was
(c) are
(d) has

Q75. Select the INCORRECTLY spelt word.
(a) Abandoned
(b) Dangerous
(c) Celibrate
(d) Excellent

Q76. Select the most appropriate option to fill in the blank to complete the idiom and make the sentence meaningful.
During the interview, the candidate was challenged to provide chapter and _____ on his proposed plan.
(a) verse
(b) page
(c) lines
(d) cover

Q77. Select the INCORRECTLY spelt word..
(a) tendancy
(b) resistance
(c) separate
(d) weather

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

The painting exhibited a _____ blend of colours. (harmonious)

(a) quavering
(b) polyphonic
(c) thrilling
(d) discordant

Q79. Select the appropriate meaning of the given idiom.

At the drop of a hat

(a) Willingness to do something instantly
(b) Become easily frightened
(c) Reveal a secret carelessly
(d) Crying without any reason

Q80. Select the option that can be used as a one-word substitute for the given group of words.

The place where soldiers live

(a) Unit
(b) Regiment
(c) Brigade
(d) Barracks

Q81. Select the most appropriate option to fill in the blank.

David decided to _____ his old boat to get a new one.

(a) sell
(b) sale
(c) cell
(d) ceil

Q82. Select the most appropriate option to fill in the blank.

The Chinese government has accepted slower economic development as the 'new normal', recognising the need for China to adopt a new growth model that depends less on fixed investment and exports and more on private consumption, services, and innovation to _____ economic growth.

(a) drive
(b) exhale
(c) success
(d) bridle

Q83. Select the most appropriate synonym of the word in bold in the given sentence.

It is universally acknowledged that trees are indispensable to us.

(a) Unusual
(b) Essential
(c) Rational
(d) Fierce

Q84. In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative.

Yesterday was the worse day of my life.

(a) most bad
(b) ill
(c) worst
(d) bad

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Q85. Which of the following sentences contains an adverbial error?

(a) He sang beautifully at the talent show
(b) The teacher spoke clear and concise
(c) She writes slowly and steadily.
(d) They danced gracefully across the stage.

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 is the mad (1)_____ for speed that is responsible for many motor accidents. Only last year, I (2)___ what might have been a (3)___ accident on Kashmir Road. I was motoring down (4)____ Srinagar; and as I was nearing Kohala, I came upon the (5)_____ of two cars on the road

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

(a) boredom
(b) craze
(c) luck
(d) block

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

(a) anticipated
(b) witnessed
(c) checked
(d) argued

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

(a) fatal
(b) wonderful
(c) happening
(d) harmless

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

(a) from
(b) on
(c) since
(d) besides

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

(a) clatter
(b) collision
(c) cluster
(d) pile

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

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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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