SSC MTS 2023 Official Paper (Held On: 08 Sept, 2023 Shift 1) (Previous Year Paper)

SSC Multi-Tasking Staff (MTS) • 2023 • 90 questions • 90 minutes • Answer key

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SESSION 1

Q1. There are 48 students in a class. Their average weight is 48 kg. When one student leaves the class, the average weight reduces by 200 grams. What is the weight of the student who left the class?

(a) 57.4 kg
(b) 54.7 kg
(c) 45.7 kg
(d) 47.5 kg

Q2. Following marks are obtained by a student in five subjects.

Subjects	Marks (out of 50)
CS	49
History	41
English	49
Science	44
Social Science	47

What is the percentage of marks scored by the student?

(a) 92.5%
(b) 45%
(c) 93%
(d) 92%

Q3. Simplify:

$3\ 2/7+3\ 2/11 \times 3\ 1/7 \div 4\ 1/3$

(a) 7 54/91
(b) 9 54/91
(c) 5 54/91
(d) 3 54/91

Q4. A deposited Rs. 62,500 at the rate of 8% per annum compounded half yearly, then what is the compound interest at the end of two years?

(a) Rs. 18,161.12
(b) Rs. 12,171.72
(c) Rs. 10,821.18
(d) Rs. 10,616.16

Q5. A man and woman working on alternate days can finish a work in 15 days if the man works on the first day. The same work is finished in 14.5 days if they work on alternate days and if the woman starts on the first day. The work will be finished by a man alone in _____ days.

(a) 25
(b) 21
(c) 15
(d) 22

Q6. If the cost price of 12 mangoes is equal to the selling price of 16 mangoes, then the loss percentage is:

(a) 25%
(b) 4%
(c) 20%
(d) 33%

Q7. A boat covers a distance of 65 km downstream in 5 hours while it takes 13 hours to cover the same distance upstream. What is the speed of the boat in still water?

(a) 8 km/h
(b) 11 km/h
(c) 6 km/h
(d) 9 km/h

Q8. There are two varieties of rice. Variety 1 costs Rs. 100 per kg and variety 2 costs Rs. 120 per kg. The vendor mixed both the varieties and sold for 121 per kg and gained 10%. Find the ratio of variety 1 to variety 2 rice in the mixture.

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

Q9. The average weight of A, B and C is 43 kg. If the average weight of A and B is 40 kg and that of B and C is 41 kg, then the weight (in kg) of B is?

(a) 41
(b) 43
(c) 33
(d) 37

Q10. Vinita obtained an amount of Rs. 23,340 as simple interest on a certain amount at 15% per annum after 8 years. What was the amount invested by Vinita?

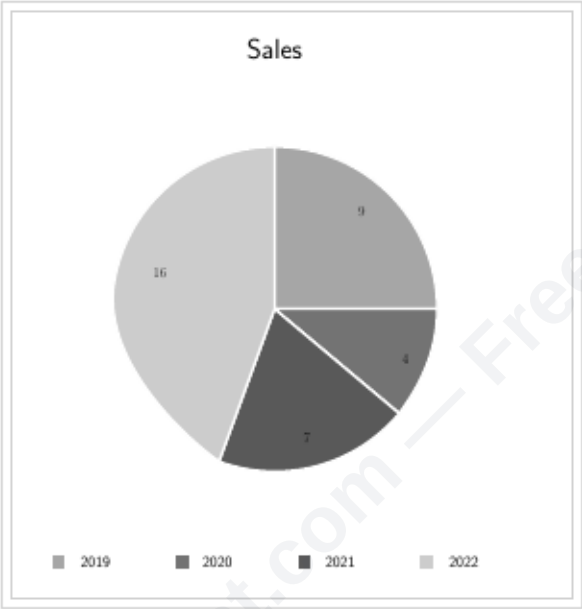
(a) Rs. 20,450
(b) Rs. 18,650
(c) Rs. 17,490
(d) Rs. 19,450

Q11. The largest three-digit number which gives the same remainder 2 when divided by 3, 5 and 9 is _____.

(a) 980
(b) 992
(c) 995
(d) 990

Q12. Consider the sales of a company in the year 2019, 2020, 2021 and 2022 given in the pie chart.

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The difference in angles at the centre by sales in 2022 and 2019 is _____ degrees.

(a) 50
(b) 80
(c) 60
(d) 70

Q13. A can complete a piece of work in 20 days. B can complete the same work in 36 days. If A and B work together, then the number of days required to complete the work is:

(a) 10 6/7
(b) 12 6/7
(c) 12 1/7
(d) 10 1/7

Q14. What is the fourth proportional to 816, 226, 408?

(a) 108
(b) 103
(c) 113
(d) 117

Q15. If the price of a product is decreased by 50%, then increased by 50% and then again increased by 50%, what is the net increase percentage in the price?

(a) 13.5%
(b) 11.5%
(c) 12.5%
(d) 9.5%

Q16. The marks scored by a student are directly proportional to the time invested in studies. If the student gets 60 marks when he studies 4 hours a day, then how many hours he should use in his studies daily to get 75 marks?

(a) 4.5
(b) 5
(c) 5.5
(d) 6

Q17. The distance covered (in km) by a bus in 55 minutes at a speed of 69 km/h is:

(a) 67.75
(b) 63.25
(c) 65.25

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(d) 60.75

Q18. The cost price of an item is Rs. 4,850. What is the profit percentage (rounded off to 1 decimal place) if it is sold at Rs. 6,680?

(a) 44.6%
(b) 37.7%
(c) 39.5%
(d) 35.5%

Q19. The radius of a cone is 10.5 cm and the area of the curved surface is 396 cm^2. Find it's slant height.

Take $\pi = 22/7$

(a) 9 cm
(b) 11.5 cm
(c) 12 cm
(d) 8.5 cm

Q20. Find the volume of a cuboid whose dimensions are 12.2 cm, 16 cm and 8.5 cm.

(a) 3072 cm3
(b) 1659.2 cm3
(c) 832 cm3
(d) 1664 cm3

Q21. What should come in place of ? in the given series based on the English alphabetical order?

ICU, FAT, CYS, ZWR, ?

(a) VTR
(b) VST
(c) WVS
(d) WUQ

Q22. In a certain code language, 'YOU' is coded as '20' and 'LIP' is coded as '44'. What is the code for 'ROB' in the given code language?

(a) 44
(b) 46
(c) 41
(d) 42

Q23. 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 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)

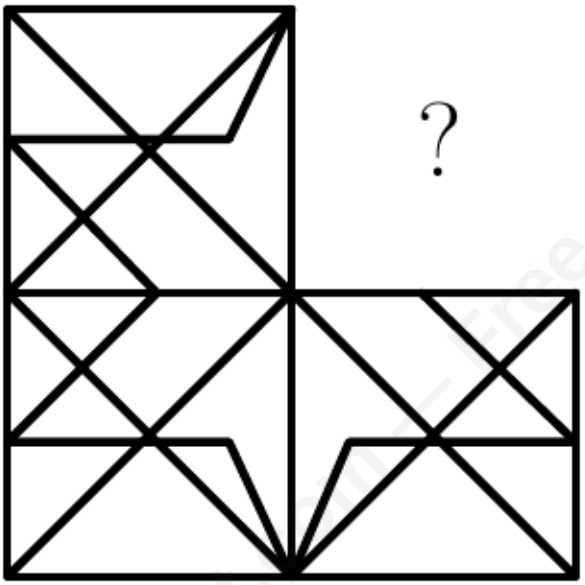
7, 13

18, 35

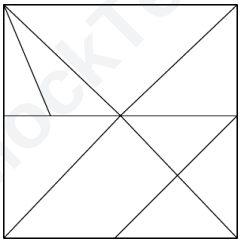
(a) 77, 98
(b) 22, 43
(c) 32, 64
(d) 44, 76

Q24. Identify the figure that completes the pattern (rotation is NOT allowed).

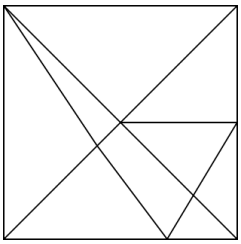
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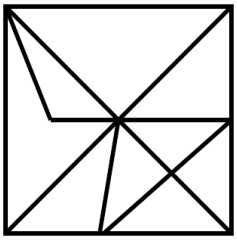
(a)



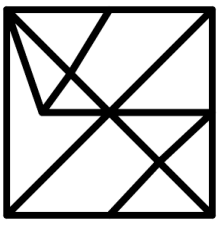
(b)



(c)



(d)



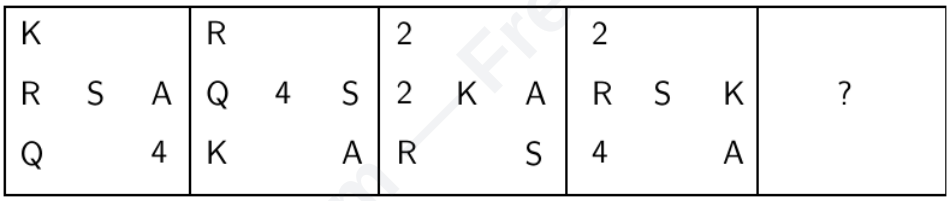
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Q25. What should come in place of ? in the given series based on the English alphabetical order?

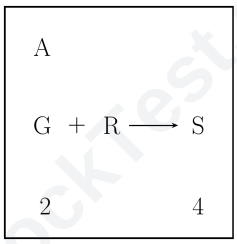
TEO, RCM, PAK, NYI, ?

(a) KVH
(b) KUH
(c) LVG
(d) LWG

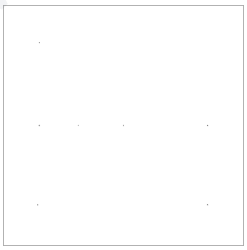
Q26. Which figure should replace the question mark (?) if the following figure series were to be continued?



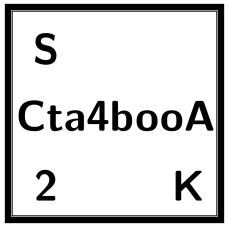
(a)



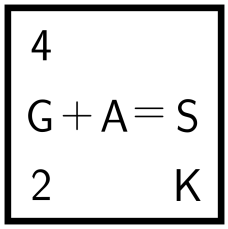
(b)



(c)



(d)



Q27. If G means '-' C means '×' D means '÷' B means '+', then what will come in place of the question mark (?) in the following equation?

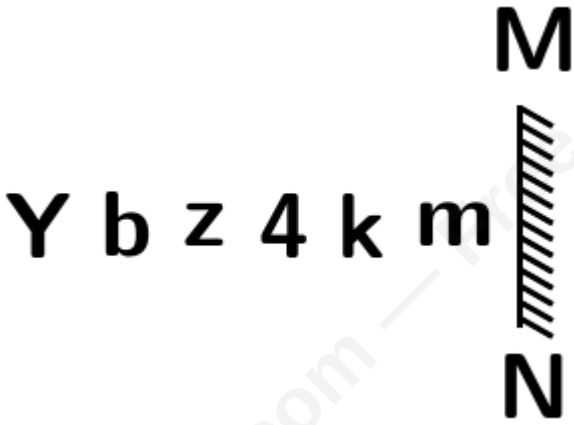
13 C 8 G 45 B 22 D 2 = ?

(a) 78
(b) 62
(c) 70

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(d) 55

Q28. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



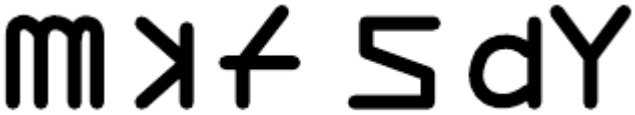
(b)



(c)



(d)



Q29. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Cricket : Pitch

(a) Wrestling : Track
(b) Ship : Dock
(c) Boxing : Ring
(d) Boat : Harbour

Q30. The position of how many letters will remain unchanged if each of the letter in the word 'POCKET' is arranged in alphabetical order?

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

Q31. What should come in place of ? in the given series?

73 75 77 79 81 ?

(a) 82
(b) 83
(c) 85
(d) 84

Q32. Seven people, U, M, K, G, B, R and D are sitting in a straight line, facing south. Only two people sit to the left of B. M sits third to the right of G. U is the immediate neighbour of M and B. D sits to the immediate left of K.

Total how many people sit between D and G?

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

Q33. What should come in place of ? in the given series based on the English alphabetical order?

GUN, DWM, AYL, XAK, ?

(a) VCI
(b) VBH
(c) UCJ
(d) UBI

Q34. In a certain code language, 'ATOM' is coded as '9613' and 'BOAT' is coded as '1938'. What is the code for 'B' in the given code language?

(a) 9
(b) 8
(c) 3
(d) 1

Q35. Read the given statements and conclusions carefully. 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 conclusion/s logically follow/s from the given statements.

Statements: All people are tall. Some tall are buildings. No buildings are clocks.

Conclusion I: Some people are buildings.

Conclusion II: No clocks are buildings.

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

Q36. If 'I' stands for '+', 'J' stands for '×', 'K' stands for '÷' and 'L' stands for '-', what will come in place of the question mark (?) in the following equation?

119 I (7 J 3) L (50 K 5) L 45 = ?

(a) 85
(b) 80
(c) 75
(d) 70

Q37. 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.

53, 90

79, 116

(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.

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Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(a) 47, 84
(b) 31, 94
(c) 59, 98
(d) 42, 59

Q38. What should come in place of '?' in the given series?

11 32 74 158 326 ?

(a) 662
(b) 674
(c) 625
(d) 648

Q39. Read the given statements and conclusions carefully. 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 conclusion's logically follow/s from the given statements.

Statements: Some combs are wood. Some wood are tables. Some tables are plastic.

Conclusion I: Some wood are combs.

Conclusion II: All plastic are tables.

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

Q40. What should come in place of ? in the given series?

23 28 38 53 73 ?

(a) 95
(b) 91
(c) 101
(d) 98

SESSION 2

Q41. Which Indian Mass Movement began with the famous ‘Dandi March’ of Mahatma Gandhi?

(a) Civil Disobedience Movement
(b) Non-Cooperation Movement
(c) Quit India Movement
(d) Kheda Movement

Q42. Whose autobiography is titled 'An Unsuitable Boy'?

(a) Karan Johar
(b) Aditya Chopra
(c) Hansal Mehta
(d) Sanjay Kapoor

Q43. The length of the men's kabaddi court is _____ metres.

(a) 10
(b) 13
(c) 17
(d) 15

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Q44. Who among the following is the author of the book 'The Zoya factor'?

(a) Kiran Desai
(b) Sudha Murty
(c) Anuja Chauhan
(d) Nandini Bajpai

Q45. Who among the following has NOT received the Sangeet Natak Akademi Award-2021 (given in February 2023) for his/her contribution in dance ?

(a) Neena Prasad
(b) Sumitra Guha
(c) Jayalakshmi Eshwar
(d) Thokchom Ibemubi Devi

Q46. Which of the following is NOT a Directive Principle based on the ideals of Mahatma Gandhi?

(a) To promote industrialisation in urban areas
(b) To organise village Panchayats
(c) To prohibit intoxicating drinks and drugs that are injurious to health
(d) To promote cottage industries in rural areas

Q47. Which of the following methods is used to calculate national income by summing up the total incomes earned by individuals and businesses in an economy?

(a) Value-added method
(b) Output method
(c) Income method
(d) Expenditure method

Q48. What is personal income?

(a) The income earned by individuals and households after taxes and other deductions
(b) The total income earned by businesses and corporations in an economy
(c) The income earned by individuals through their own business or self-employment
(d) The total income earned by individuals and households before taxes and other deductions

Q49. Who founded the Hindu reform organisation Brahmo Samaj?

(a) Ramkrishna Paramhans
(b) Rabindranath Tagore
(c) Atmaram Pandurang
(d) Raja Ram Mohan Roy

Q50. Whom among the following Indian singers is known as ‘Gazal King’?

(a) Manna Dey
(b) Mukesh
(c) Shailendra
(d) Jagjit Singh

Q51. Dree Utsav is celebrated in the state of _____.

(a) Arunachal Pradesh
(b) Kerala
(c) Assam
(d) Andhra Pradesh

Q52. _____ word of Indian dance is derived from a Sanskrit word and literally means ‘taking towards’.

(a) Nritta
(b) Laasya
(c) Taandava
(d) Abhinaya

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Q53. Which of the following is an example of the Western Coast Port?

(a) Tuticorin Port
(b) Paradip Port
(c) Mumbai Port
(d) Vishakhapatnam Port

Q54. What are the three tiers of the Government in India?

(a) Union government, Judiciary government and Federal government
(b) Union government, State Government and Federal Government
(c) Union government, State government and Judiciary government
(d) Union Government, State Government and Local Government

Q55. The foundation of Sanchi Stupa was laid by which of the following Kings?

(a) Samudragupta
(b) Bimbisara
(c) Ashoka
(d) Chandragupta Maurya

Q56. During which months do retreating monsoons occur in India?

(a) January and February
(b) May and June
(c) October and November
(d) March and April

Q57. Which is the primary structural component responsible for most of the mechanical strength of the cell wall?

(a) Heparin
(b) Glycogen
(c) Chitin
(d) Cellulose

Q58. Ball and spring model of chemical bonds obey:

(a) Hooke's law
(b) Charles' law
(c) gravitational law
(d) Newton's law

Q59. Pandit Janki Prasad was associated with which of the following Gharanas of Kathak?

(a) Banaras
(b) Raigarh
(c) Jaipur
(d) Lucknow

Q60. In 2023, Ajay Singh, the chief of SpiceJet was appointed as president of which of the following?

(a) FICCI
(b) ASSOCHAM
(c) CII
(d) NASSCOM

Q61. Rohit Sharma became the first ever Indian to play how many T20 cricket matches in October 2022?

(a) 300
(b) 100
(c) 200
(d) 400

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Q62. Which form of Indian dance is said to be ‘soft and suitable for female presentation’?

(a) Nritta
(b) Taandava
(c) Laasya
(d) Nritya

Q63. Which of the following oceans is located to the east of North America and South America?

(a) Pacific Ocean
(b) Atlantic Ocean
(c) Indian Ocean
(d) Arctic Ocean

Q64. The famous ‘Pashupatinath Temple’ is located in which country from the following?

(a) Nepal
(b) Bhutan
(c) Maldives
(d) Sri Lanka

Q65. In which of the following years was the first Janjatiya Khel Mahotsav held?

(a) 2023
(b) 2021
(c) 2020
(d) 2022

Q66. Select the option that can be used as a one-word substitute for the given group of words.

One who does not believe in the existence of God

(a) Atheist
(b) Priest
(c) Monk
(d) Believer

Q67. Select the most appropriate option that can rectify the underlined segment in the given sentence. If there is no need to rectify it, select ‘no rectification needed’.

You are the beautiful woman I have ever seen.

(a) no rectification needed
(b) more beautiful
(c) beauty
(d) most beautiful

Q68. Choose the option which best expresses the meaning of the given idiom.

By fair means or foul

(a) To work without planning
(b) To find difficulty in completing some work
(c) To get one’s way with honesty or dishonesty
(d) To provoke someone into quarrelling

Q69. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

My younger daughter, / Kanu prefer / dark chocolate / to yoghurt.

(a) dark chocolate
(b) My younger daughter
(c) Kanu prefer
(d) to yoghurt

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Q70. Choose the sentence that contains an error.

(a) I saw a movie that was directed by Steven Spielberg.
(b) She is the only person who can solve this difficult math problem.
(c) He is an lawyer who works for a prestigious law firm.
(d) The Great Wall of China is a popular tourist attraction.

Q71. Parts of the following sentence have been given as options. Select the option that contains an error.

Ishita will playing Tennis for her favourite team.

(a) will playing
(b) Tennis for
(c) her favourite team
(d) Ishita

Q72. Select the most appropriate option that can substitute the underlined segment in the given sentence.

He apologised in her silently before he pushed deeper into her thoughts.

(a) apologise in her
(b) apologised with her
(c) apologised of her
(d) apologised to her

Q73. Select the correctly spelt word.

(a) Bihavior
(b) Behavier
(c) Behaviour
(d) Behaveor

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

Obvious

(a) Clear
(b) Murky
(c) Ambiguous
(d) Opaque

Q75. Select the most appropriate meaning of the given idiom.

As phony as a three-dollar bill

(a) Something that is attractive
(b) Something that is genuine
(c) Something that is disgusting
(d) Something that is fake

Q76. Select the most appropriate option to fill in the blank.

They are going to give me a lovely present, but I cannot _____ what it will be.

(a) give
(b) gist
(c) guess
(d) guest

Q77. Select the INCORRECTLY spelt word.

(a) Important
(b) Maintanance
(c) Friend
(d) Rhythm

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Q78. Select the most appropriate synonym of the given word.

Determined

(a) Flexible
(b) Famous
(c) Decisive
(d) Elevated

Q79. Select the most appropriate synonym of the underlined word.

Ray was cynical about love.

(a) prolific
(b) obese
(c) trusting
(d) pessimistic

Q80. Select the option that rectifies the spelling of the underlined word in the given sentence.

The company sent out a questionaire to its employees to gather feedback on their work environment.

(a) questioneire
(b) questionnaire
(c) questionnire
(d) questionaiare

Q81. Select the option that can be used as a one-word substitute for the given group of words.

A person who feeds on human flesh

(a) Cannibal
(b) Carnivore
(c) Nudge
(d) Omnivore

Q82. 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'.

Larger emissions of greenhouse gases lead to higher concentrations in the atmosphere.

(a) leaded to higher concentrations
(b) have lead to higher concentrations
(c) is lead to higher concentrations
(d) No substitution required

Q83. Select the most appropriate meaning of the underlined idiom.

Ramesh always blows his own trumpet.

(a) praises himself
(b) criticises himself
(c) does his own work
(d) depends on others

Q84. Select the most appropriate meaning of the underlined idiom.

He was on cloud nine when he got admission in Cambridge University.

(a) involved in useless journey
(b) very happy
(c) unsettled
(d) available to be called to go to work

Q85. Select the option that can be used as a one-word substitute for the given group of words.

An examination of a body after death

(a) Post room
(b) Post death

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(c) Post partum
(d) Post mortem

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.

One of the (1)____ tragedies is seeing someone with incredible talent get (2)___ because he or she lacks some basic skills. This book (3)___ the number one reason executives derail, and it provides extremely helpful tools to operate in a fast-paced, result oriented environment. I am impressed by how insightful, (4)___, well organised and focused it is. It will surely help one (5)____ several difficult situations.

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

(a) more great
(b) great
(c) greater
(d) greatest

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

(a) uplifted
(b) damaged
(c) derailed
(d) channelised

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

(a) demeans
(b) devours
(c) addresses
(d) neglects

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

(a) sophisticated
(b) pessimistic
(c) cumbersome
(d) readable

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

(a) condemn
(b) salvage
(c) reject
(d) discourage

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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