SSC MTS 2024 Official Paper (Held On: 18 Oct, 2024 Shift 3) (Previous Year Paper)

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

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

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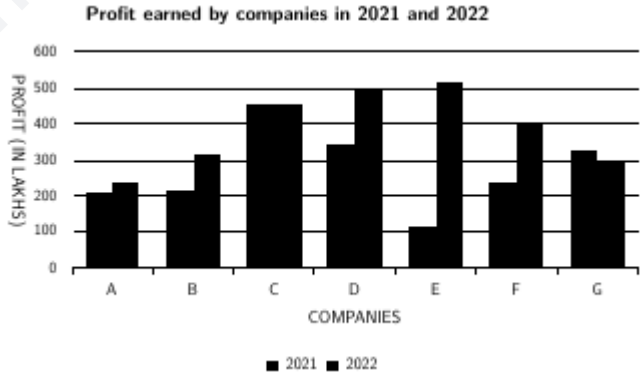
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SESSION 1

Q1. How many seconds will a boy take to run one complete round around a square field of side 38 metres, if he runs at a speed of 6 km/h?

(a) 50.1
(b) 71.2
(c) 61.2
(d) 91.2

Q2. The following bar graph shows the monthly profits (in lakhs Rs.) of the different companies in the year 2021 and 2022. Study the diagram and answer the following question.



What is the ratio of the average profit earned by companies A, B, C and D in the year 2021 to the average profit earned by the companies C, D, E and F in the year 2022?

(a) 995 : 761
(b) 925 : 605
(c) 892 : 731
(d) 606 : 925

Q3. Find the HCF of:

$3^3 \times 11^2$, 2^4 × $3^2 \times 5^3 \times 11^3$ and $3 \times 5 \times 7 \times 11$

(a) 385
(b) 1815
(c) 33
(d) 165

Q4. The population of a village is increased by 3%. Had there been 122 less, there would have been a decrease of 1%. Find the original population.

(a) 3050
(b) 3550
(c) 3555

(d) 3000

Q5. Aravind purchased a book for Rs.450 and sold it for Rs.500. What is the profit percentage?

(a) 111/7%
(b) 131/7%
(c) 131/9%
(d) 111/9%

Q6. What is the average of the first 40 natural numbers?

(a) 20.5
(b) 50.5
(c) 40.5
(d) 10.5

Q7. A conical tent is to be made with canvas having radius 7 units and height 4 units.
How much canvas (in square units) will be required to make the tent (take π = 22/7)?

(a) 44√65
(b) 22√65
(c) 11√65
(d) 33√65

Q8. Eight persons went to a restaurant for lunch. Seven of them spent Rs. 80 each on their meals, while the eighth person spent Rs. 70 more than the average expenditure of all eight persons. What was the total amount spent by all the individuals?

(a) Rs. 640
(b) Rs. 560
(c) Rs. 780
(d) Rs. 720

Q9. In what ratio must tea at Rs. 82/kg be mixed with tea at Rs. 92/kg so that the mixture be worth Rs. 84.50/kg?

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

Q10. By selling 120 note books, a shopkeeper gains the selling price of 40 note books. Find his gain percentage.

(a) 25%
(b) 75%
(c) 90%
(d) 50%

Q11. A solid sphere of iron having radius 15 cm is to be melted and recast in the shape of a cylindrical pipe having internal and external radii 4 cm and 6 cm, respectively. Find the length (in m) of the pipe thus formed.

(a) 2.15
(b) 2.25
(c) 2.45
(d) 2.35

Q12. The simple interest on a certain deposit at 5.5% per annum is Rs. 264 in one year. How much additional interest will be earned in one year on the same deposit at 6.5% per annum?

(a) Rs. 48
(b) Rs. 47.5
(c) Rs. 46.5
(d) Rs. 49

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Q13. Three different types of pulses costing Rs. 180, Rs. 240 and Rs. 200 per kg, respectively, are mi×ed in the ratio 1 : 5 : 4. What will be the cost for 1 kg of the mi×ture?

(a) Rs. 200
(b) Rs. 240
(c) Rs. 218
(d) Rs. 206

Q14. A person walks along a rectangular field, whose dimensions are 6 km long and 3 km wide. For the first 1 hour, he walks at a speed of 2 km/hr. After 1 hour, he increases his speed to 4 km/hr. Next 1 hour, his speed is decreased to 2 km/hr. For the next 1 hour, he increases his speed to 4 km/hr. Find his average speed (in km/hr).

(a) 5
(b) 4
(c) 3
(d) 2

Q15. Find the surface area of a spherical vessel of diameter 42 cm.

(Use π = 22/7)

(a) 5514 cm^2
(b) 5540 cm^2
(c) 5524 cm^2
(d) 5544 cm^2

Q16. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 5% per year rate of interest for 5 years.

(a) 710
(b) 790
(c) 750
(d) 690

Q17. The given table shows the number of units manufactured (M), and the number of units sold (S) (in thousand) by three different companies over the years.

Year	X		Y		Z	
	M	S	M	S	M	S
2017	16.5	11.2	10.6	11.3	13.9	12.0
2018	15.6	12.9	13.2	10.1	15.5	13.6
2019	12.8	10.5	12.1	11.2	17.4	12.2

What is the average number of units manufactured by company Z over all the years together?

(a) 16,100
(b) 15,400
(c) 15,600
(d) 16,300

Q18. A sum of Rs. 2,244 is divided between P and Q. If Q = 7/11(Q + P), then share of Q is equal to:

(a) Rs. 1,444
(b) Rs. 1,432
(c) Rs. 1,428
(d) Rs. 1,438

Q19. A tradesman marks his goods at 45% above the cost price but allows a discount of 20% at the time of sale. His gain is:

(a) 26%
(b) 16%
(c) 25%
(d) 17%

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Q20. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 9% per year rate of interest for 3 years.

(a) 635
(b) 715
(c) 615
(d) 675

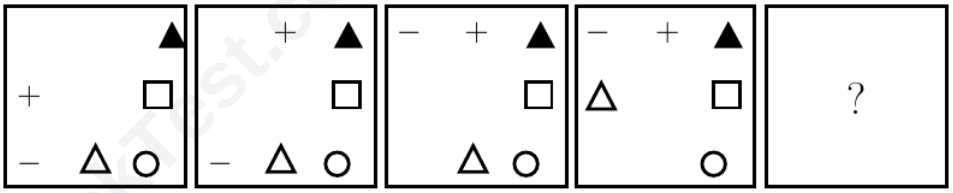
Q21. Which two numbers should be interchanged to make the following equation correct?

12 × 2 − 6 × 7 + 3 × 5 × 4 + 10 = 46

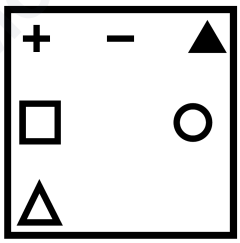
(Note: Interchange should be done of the entire number and not individual digits of a given number.)

(a) 3 and 6
(b) 2 and 4
(c) 7 and 5
(d) 12 and 10

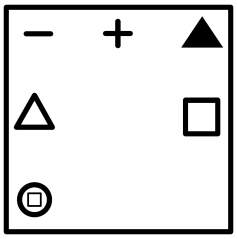
Q22. Identify the figure given in the options which when put in place of ? will logically complete the series.



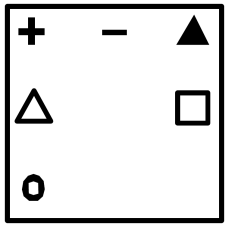
(a)



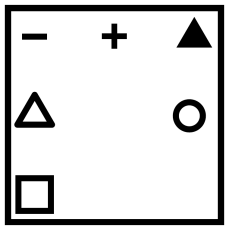
(b)



(c)



(d)



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Q23. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



Q24. Select the set in which the numbers are related in the same way as are the numbers of the given 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.)

(444, 74, 6)

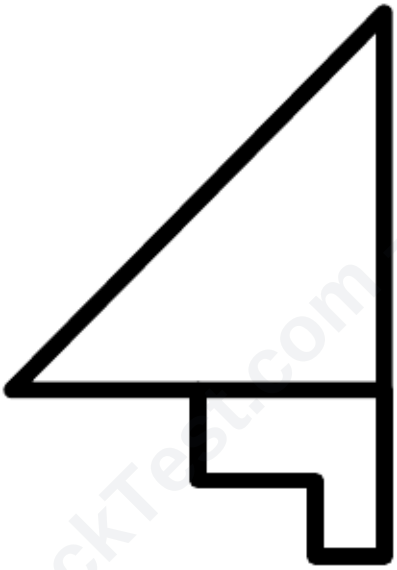
(666, 37, 18)

(a) (80, 11, 8)

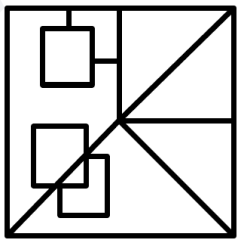
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(b) (256, 32, 8)
(c) (80, 17, 8)
(d) (96, 17, 8)

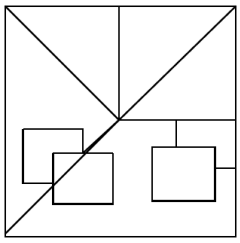
Q25. Select the option in which the given figure is embedded (rotation is NOT allowed).



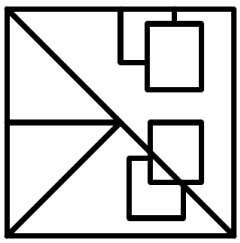
(a)



(b)

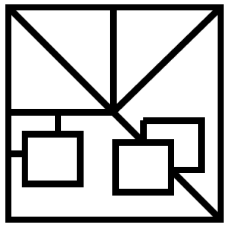


(c)



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(d)



Q26. In a certain code language, 'cake is delicious' is written as 'kg fv bu' and 'you like cake' is coded as 'bu wl ma'. How is 'cake' coded in the given language?

(a) bu
(b) fv
(c) ma
(d) kg

Q27. Six people A, B, C, D, E and F are sitting around a circular table, facing the centre (but not necessarily in the same order). F is sitting second to right of D. C is sitting third to left of F. B is sitting to the immediate right of D. A is not an immediate neighbour of C. How many people are sitting between E and B when counted from right of E?

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

Q28. GN76 is related to UB53 in a certain way. In the same way, KR34 is related to YF11. To which of the following is OV98 related, following the same logic?

(a) CJ75
(b) JC88
(c) JC68
(d) CJ78

Q29. 46 is related to 414 following a certain logic. Following the same logic, 52 is related to 468. To which of the following is 67 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) 624
(b) 633
(c) 603
(d) 658

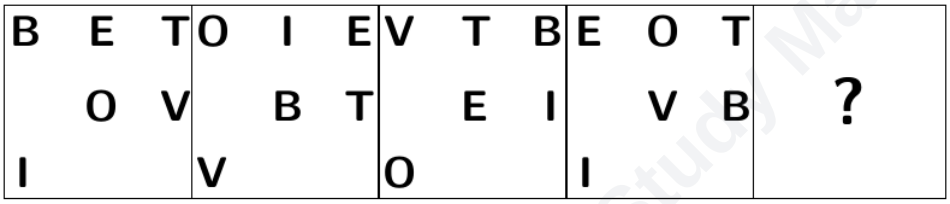
Q30. What should come in place of the question mark (?) in the following series?

11, 18, 25, 32, 39, ?

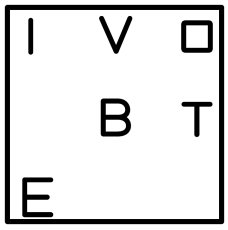
(a) 46
(b) 90
(c) 78
(d) 81

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

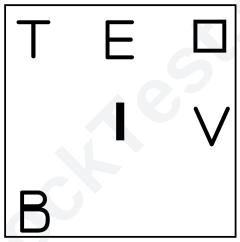
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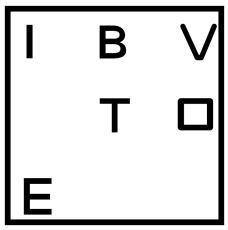
(a)



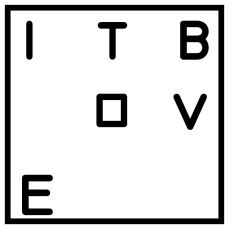
(b)



(c)



(d)



Q32. In a certain code language, ‘FISH’ is coded as ‘4268’ and ‘RATS’ is coded as ‘2357’.What is the code for ‘S’ in that language?

(a) 6
(b) 2
(c) 7
(d) 5

Q33. Which two numbers should be interchanged to make the given equation correct?

$7 \times 4 - 8 \times 2 + 3 \times 14 \times 5 - 9 = 133$

(Note: Interchange should be done of entire number and not individual digits of a given number)

(a) 14 and 9
(b) 7 and 14
(c) 9 and 8
(d) 2 and 4

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Q34. Six people—A, B, C, D, E, and F—are sitting around a circular table, facing the centre (but not necessarily in the same order). A is an immediate neighbour of both E and C. B is an immediate neighbour of both D and C. F is to the immediate right of D.

Who among the following is an immediate neighbour of both F and A?

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

Q35. What should come in place of the question mark(?) in the given series based on the English alphabetical order?

ABA, BDB, CFC, DHD, ?

(a) GJG
(b) EKE
(c) EJE
(d) GJE

Q36. In this question, two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

All cows are goats.

Some goats are lions.

Conclusions:

I. All lions are goats.

II. Some cows are lions.

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

Q37. In a certain code language, 'FINE' is coded as '9632' and 'LINE' is coded as '2946'. What is the code for 'F' in that language?

(a) 9
(b) 3
(c) 2
(d) 6

Q38. In a certain code language, 'Try to act' is coded as 'ZX MN HO' and 'act your age' is coded as 'CO MB ZX'. How is 'act' coded in that code language?

(a) CO
(b) HO
(c) ZX
(d) MB

Q39. NQRP is related to TWXV in a certain way based on the English alphabetical order. In the same way, EHIG is related to KNOM. To which of the following is LOPN related, following the same logic?

(a) RUTV
(b) TVUR
(c) RUVT
(d) RTVU

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Q40. 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 horses are donkeys.

All donkeys are mules.

Conclusions:

(i) All donkeys are horses.

(ii) Some mules are donkeys.

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

SESSION 2

Q41. Which Article of the Constitution of India states that the Parliament consists of the President of India and the two Houses of Parliament known as Council of States (Rajya Sabha) and House of the People (Lok Sabha)?

(a) Article 62
(b) Article 79
(c) Article 67
(d) Article 73

Q42. Which edition of the Santosh Trophy event did Karnataka win in the 2022-23 season?

(a) 75th
(b) 73rd
(c) 78th
(d) 76th

Q43. Ortho-sulphobenzimide is one of the artificial sweeteners. It is also known as _____.

(a) sucralose
(b) aspartame
(c) saccharin
(d) alitame

Q44. Which of the following is NOT an iron-ore producing belt of India?

(a) Durg-Bastar-Chandrapur belt
(b) Maharashtra-Goa belt
(c) Odisha-Jharkhand belt
(d) Bilaspur-Panipat belt

Q45. Which of the following was the capital of the Pallava Dynasty?

(a) Aihole
(b) Badami
(c) Kanchipuram
(d) Madurai

Q46. Hareli festival is celebrated in which of the following states?

(a) Maharashtra
(b) Manipur
(c) Karnataka
(d) Chhattisgarh

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Q47. Kamalini Asthana is associated with which of the following dance forms?

(a) Manipuri
(b) Mohiniattam
(c) Kathak
(d) Odissi

Q48. Which of the following is referred to as 'Near Money'?

(a) Coins
(b) Currency notes
(c) National savings deposits
(d) Bank money

Q49. ICC Women's T-20 Cricket World Cup is a/an _____ event.

(a) quarterly
(b) triennial
(c) biennial
(d) annual

Q50. Who among the following formed a group of non-violent revolutionaries, the Khudai Khidmatgars (known as Red Shirts)?

(a) Abbas Tayabji
(b) Khan Abdul Gaffar Khan
(c) Chakravarti Rajagopalachari
(d) Jawaharlal Nehru

Q51. The founders of Vijayanagar empire, Harihara and Bukka Raya were the ministers of:

(a) Kampili
(b) Kadamba
(c) Western Chalukya
(d) Eastern Ganga

Q52. In May 2023, which Chief Minister was honoured with the Bharat Ratna Dr. Ambedkar award for creating a fear-free state?

(a) Yogi Adityanath
(b) Ashok Gehlot
(c) Mamata Banerjee
(d) Arvind Kejriwal

Q53. Identify the group of states that is a part of Garib Kalyan Rojgar Abhiyaan (As of June 2022).

(a) Uttar Pradesh and Jharkhand
(b) Haryana and Punjab
(c) Assam and West Bengal
(d) Tamil Nadu and Chhattisgarh

Q54. Which of the following statements with reference to Padma Subrahmanyam is/are correct?

1) Padma Subrahmanyam is a famous Bharatanatyam dancer.
2) She received the Padma Shri and Padma Bhushan awards.
3) She was also honoured with the Sangeet Natak Akademi Award for Dance.

(a) Only 2 and 3
(b) Only 1 and 3
(c) Only 1 and 2
(d) 1, 2, and 3

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Q55. Which percussionist from Maharashtra received Padma Vibhushan 2023?

(a) Zakir Hussain
(b) Swapan Chaudhuri
(c) Nayan Ghosh
(d) Yogesh Samsi

Q56. Which of the following is an autobiography of Abul Kalam Azad, the first education minister of India?

(a) The Story of My Experiments with Truth
(b) My Country My Life
(c) India Wins Freedom
(d) Long Walk to Freedom

Q57. What is the chemical formula for potassium permanganate?

(a) KMn2O7
(b) KMnO4
(c) K3MnO4
(d) K2MnO3

Q58. Which of the following statements about pteridophytes are correct?

Statements:

A. They include horsetails and ferns.

B. Pteridophytes are used for medicinal purposes and as soil-binders.

C. They are very advanced type of plants on earth, which evolved very recently.

D. Evolutionarily, they are the first terrestrial plants to possess vascular tissues – xylem and phloem.

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

Q59. In July 2023, the District Rural Development Agency (DRDA) in Tirupathur district, Tamil Nadu, achieved a monumental achievement by constructing 1546 farm ponds in just 30 days, setting a new world record. This remarkable initiative was carried out under which government scheme?

(a) Mahatma Gandhi National Rural Employment Guarantee Scheme
(b) Mission Amrit Sarovar
(c) Jal Jeevan Mission
(d) Pradhan Mantri Krishi Sinchayee Yojna

Q60. Bokaro, Burnpur, Rourkela, etc., are famous for development of which of the following industries?

(a) Software
(b) Iron and Steel
(c) Automobile
(d) Dairy

Q61. By which of the following Amendments was the right to property removed from Part III of the Indian Constitution?

(a) 50^(th) Amendment
(b) 64^(th) Amendment
(c) 44^(th) Amendment
(d) 70^(th) Amendment

Q62. Which state has the highest population in India as per the projected data of 2024?

(a) Rajasthan
(b) Uttar Pradesh
(c) Bihar
(d) Kerala

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Q63. Divergent plate boundary is a boundary that occurs between two tectonic plates:

(a) that are moving towards one another
(b) where one plate slides beneath the other
(c) that are sliding horizontally past each other
(d) that are moving away from one another

Q64. Which of the following pacts suspended the Civil Disobedience Movement?

(a) Liaquat-Nehru Pact
(b) Sirma-Gandhi Pact
(c) Gandhi-Irwin Pact
(d) Rajaji-Moonje Pact

Q65. Who discovered the Bharhut stupa?

(a) James Tod
(b) Alexander Cunningham
(c) James Burgess
(d) James Fergusson

Q66. Select the most appropriate ANTONYM for the underlined word.

My teacher is very diligent.

(a) Skilful
(b) Idle
(c) Hardworking
(d) Kind

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

Don’t be such an _____; we have plenty of time to complete the task.

(a) eat crow
(b) easy money
(c) eager beaver
(d) elephant in the room

Q68. Select the sentence that has a grammatical error.

(a) She usually walks her dog in the park every morning.
(b) The train leaves the station at 8:00 a.m. every day.
(c) They play chess together on weekends.
(d) He don't like spicy food.

Q69. Select the correct spelling of the underlined word in the given sentence.

Scince explores and explains the natural world through observation and experimentation.

(a) sience
(b) sceince
(c) science
(d) scinece

Q70. Select the most appropriate synonym of the given word.

Congenial

(a) Trivial
(b) Pleasant
(c) Ignorant
(d) Ethical

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Q71. Select the most appropriate option to fill in the blank.

Gandhi's ways of life, if followed in their entirety, will aid us in the creation of a society of peace and _____.

(a) cacophony
(b) agitation
(c) harmony
(d) discord

Q72. 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.

It is a fact that / girls' hair is usually / long than the boys' hair.

(a) It is a fact that
(b) long than the boys' hair
(c) No error
(d) girls' hair is usually

Q73. Select the most appropriate synonym of the given word.

Abundant

(a) Elusive
(b) Ample
(c) Skimpy
(d) Rare

Q74. Parts of the following sentence have been given as options. Select the option that contains an error.

When I was studying Economics in Delhi University, Ritu was senior than me.

(a) senior than me
(b) in Delhi University
(c) When I was studying Economics
(d) Ritu was

Q75. Select the INCORRECTLY spelt word.

(a) Camouflage
(b) Perseverence
(c) Exaggerate
(d) Connoisseur

Q76. Based on the context of the given sentence, select the most appropriate idiom to fill in the blank.

After spending hours working non-stop on the project, the team decided to _____ and go home.

(a) run out of steam
(b) take it easy
(c) hit the books
(d) call it a day

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

Elevation

(a) Promotion
(b) Demotion
(c) Creation
(d) Presentation

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

In an _____(endeavour) to improve the environment of their society, they planted many trees surrounding the parking area.

(a) axiom
(b) aim

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(c) ecstasy
(d) epitome

Q79. Change the following sentence into positive degree.

Ramesh is not stronger than Mahesh.

(a) Mahesh is as strong as Ramesh.
(b) Mahesh is strongest than Ramesh.
(c) Ramesh is as strong than Mahesh.
(d) Mahesh is stronger than Ramesh.

Q80. Select the most appropriate option to fill in the blank.

The company's success is attributed to its _____ business strategies.

(a) worst
(b) downtrodden
(c) mundane
(d) innovative

Q81. Select the option that will improve the underlined part of the given sentence.

Swati came here with the intent of insulting me.

(a) to insult me
(b) of insulting me
(c) for insulting me
(d) from insulting me

Q82. Select the INCORRECTLY spelt word..

(a) Synopsis
(b) Obliterate
(c) Pursuit
(d) Occassionly

Q83. Select the most appropriate form of comparative degree that can substitute the underlined segment in the given sentence.

Neha’s house is far from the city than everyone else’s.

(a) further from the city than
(b) more far from the city to
(c) farther from the city than
(d) far from the city to

Q84. Select the most appropriate option to fill in the blanks.

Chocolate can be ____ without milk; mix cocoa butter, sugar and a puree of fermented, roasted cocoa beans, and you ____ a perfectly respectable dark chocolate.

(a) make; have
(b) making; have
(c) made; has
(d) made; have

Q85. Select the option that changes the degree of comparison in the given sentence from superlative to positive without changing the meaning of the sentence.

Kalpana Ahuja is the tallest girl in the colony.

(a) Many girls in the colony are taller than Kalpana Ahuja.
(b) Kalpana Ahuja is as tallest as other girls of the colony.
(c) No other girl in the colony is as taller as Kalpana Ahuja.
(d) No other girl in the colony is as tall as Kalpana Ahuja.

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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.

That was a jolly story ___1_ Arthur Ransome told the other day in one of his messages from Petrograd, a place in Russia. A stout old lady was walking 2_ her basket down the middle of a street to the _3_ confusion of the traffic and with no small peril to herself. It was pointed _4_ to her that the _5___ was the place for the foot passengers, but she replied, “I’m going to walk where I like. We’ve got liberty now.”

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

(a) about
(b) off
(c) which
(d) form

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

(a) beside
(b) in
(c) at
(d) with

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

(a) greet
(b) grate
(c) great
(d) garret

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

(a) in
(b) by
(c) so
(d) out

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

(a) pavement
(b) road
(c) market
(d) bay

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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