SSC MTS (2022) Official Paper (Held On: 16 Jun, 2023 Shift 1) (Previous Year Paper)

SSC Multi-Tasking Staff (MTS) • 2022 • 90 questions • 90 minutes • Answer key

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SESSION 1

Q1. Find the compound interest on Rs. 8000 at 15% per annum for 2 years (compounded annually.)

(a) Rs. 2450
(b) Rs. 2580
(c) Rs. 2400
(d) Rs. 2550

Q2. If x percent of x is 256, then what is the value of x?

(a) 200
(b) 180
(c) 160
(d) 150

Q3. The value of 11 × 2 + (45 ÷ 9) + (72 ÷ 8) - 5 + 4 is :

(a) 40
(b) 35
(c) 41
(d) 32

Q4. What is the value of (11 × 11 - 24 × 6 of 2 + 12 × 12)/(4 × 5 + 6 × 2 ÷ 4) ?

(a) -2
(b) 1
(c) 2
(d) -1

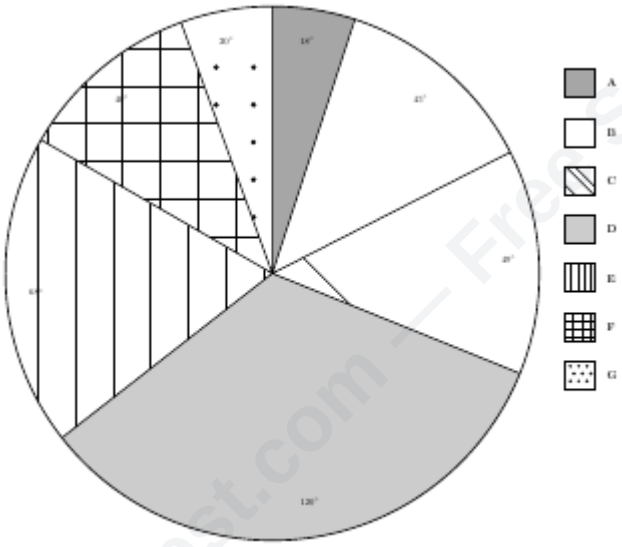
Q5. A man rows to a place situated 100 km away and comes back in 10 hours. He can row 12 km downstream or 8 km upstream in same time. What is the speed of the stream?

(a) (23/8) km/hr
(b) (29/5) km/hr
(c) (25/6) km/hr
(d) (20/9) km/hr

Q6. The difference between simple interest and compound interest (compounding of interest is done annually) on a certain sum of money for 3 years at the rate of 20 percent per annum is Rs. 192. What is the sum?

(a) Rs. 1200
(b) Rs. 1400
(c) Rs. 1500
(d) Rs. 1000

Q7. The pie chart given below shows the sales of 7 different companies. The total sales of all these 7 companies are 1440. The sale of a particular company is shown in terms of degree with respect to the total sales of all these 7 companies.



What is the ratio of average sale of A and B to the average sale of D and E?

(a) 51 : 186
(b) 169 : 49
(c) 63 : 188
(d) 59 : 177

Q8. In what ratio must a grocer mix two varieties of sweets costing Rs. 30 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 25 per kg?

(a) 1 : 1
(b) 5 : 4
(c) 4 : 5
(d) 2 : 3

Q9. If x : y : z = 2 : 3 : 4, then what is the value of 7x : 3y : 2z?

(a) 18 : 7 : 12
(b) 16 : 9 : 8
(c) 12 : 6 : 11
(d) 14 : 9 : 8

Q10. A person bought some pens at the rate of 25 for a rupee and sold them at the rate of 20 for a rupee. What is the profit percentage?

(a) 30 percent
(b) 15 percent
(c) 10 percent
(d) 25 percent

Q11. Two taps P and Q can fill a tank alone in 10 hours and 12 hours respectively. If the two taps are opened at 9 a.m., then at what time should the tap P be closed to completely fill the tank at exactly 3 p.m.?

(a) 1 p.m
(b) 3 p.m
(c) 12 p.m
(d) 2 p.m

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Q12. The alcohol and water in a mixture are in the ratio of 4 : 5 respectively. 20 litre water is added to it. If the ratio of alcohol and water in the new mixture is 1 : 3 respectively, then what is the total quantity of the alcohol in the new mixture?

(a) 15 litres
(b) 60/7 litres
(c) 90/11 litres
(d) 80/7 litres

Q13. What is the value of (21/46 ÷ 1/6) of 23/42 + 96/576 × 24/3 - (88/56 × 7/9 ÷ 5/36) ?

(a) -179/30
(b) -163/28
(c) 5/2
(d) 11/2

Q14. The average of 7 consecutive odd numbers is A. If next 3 and previous 2 odd numbers to these 7 odd numbers are also included, then what is the new average of these 12 consecutive odd numbers?

(a) A + 1
(b) A + 2
(c) A + 3
(d) A - 2

Q15. The perimeter of the top of a rectangular table is 42 metre and its area is 108 metre^2. What is the length of its diagonal?

(a) 11 metre
(b) 15 metre
(c) 12 metre
(d) 9 metre

Q16. A can do a work in 48 days. What part of the total work can be done by A in 18 days?

(a) 5/6
(b) 4/9
(c) 3/5
(d) 3/8

Q17. Study the following table and answer. In which year did the company spent maximum on fuel and transport?

Year	**Item of Expenditure**				
Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes	
2001	288	198	3	23.4	83
2002	342	112	2.52	32.5	108
2003	324	91	3.84	41.6	74
2004	336	98	3.68	36.4	88
2005	420	142	3.96	49.4	98

(a) 2003
(b) 2001
(c) 2004
(d) 2002

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Q18. The marked price of a calculator is Rs. 1600. It is sold at a discount of 28 percent. If the cost price of the calculator is Rs. 700, then what is the value of profit?

(a) Rs. 405
(b) Rs. 438
(c) Rs. 498
(d) Rs .452

Q19. An article is sold at 5 percent loss. If its cost price is decreased by Rs. 20 and selling price is increased by Rs. 13, then profit of 10 percent is earned on it. What is the original selling price of the article?

(a) Rs. 250
(b) Rs. 266.66
(c) Rs. 283.33
(d) Rs. 221.66

Q20. The ratio of the volume of two cylinders is 27 : 25 and the ratio of their heights is 3 : 4. If the area of the base of the second cylinder is 3850 cm^2, then what will be the radius of the first cylinder?

(a) 42 cm
(b) 34 cm
(c) 56 cm
(d) 63 cm

Q21. Select the option that is related to the third word in the same way as the second word is related to the first word.

Mizoram : Aizawl :: Telangana : ?

(a) Bangalore
(b) Hyderabad
(c) Jaipur
(d) Chennai

Q22. By interchanging the given two signs which of the following equation will be correct?

• and ÷

I. 4 ÷ 2 + 1 - 8 × 3 = - 10

II. 18 ÷ 2 - 8 + 4 × 3 = 14

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

Q23. In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

I. All A are Y.

II. No Z is A.

Conclusion:

I. All Y are A.

II. Some Y are A.

III. Some A are Z.

(a) Neither conclusion follows
(b) All conclusion follows
(c) Only conclusion II follows
(d) Both conclusions I and III follows

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Q24. 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 conclusions logically follow(s) from the statements.

Statements:

Some watch are corn.

All corn are wood.

Conclusions:

I. Some watch are wood.

II. Some wood are corn.

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

Q25. In a certain code language, 'LABOR' is written as 'RALOB'. How will 'EARLY' be written in that language?

(a) YALER
(b) ZAELR
(c) YAELR
(d) YAERL

Q26. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 12, 19, 26

Second row- 28, 35, 42

Third row- 39, 46, ?

(a) 75
(b) 63
(c) 53
(d) 49

Q27. After interchanging which two numbers, the value of the given equation will be '30'?

8 × 1 - 9 ÷ 3 + 4

(a) 3 and 9
(b) 8 and 4
(c) 4 and 3
(d) 1 and 4

Q28. Which of the following numbers will replace the question mark (?) in the given series?

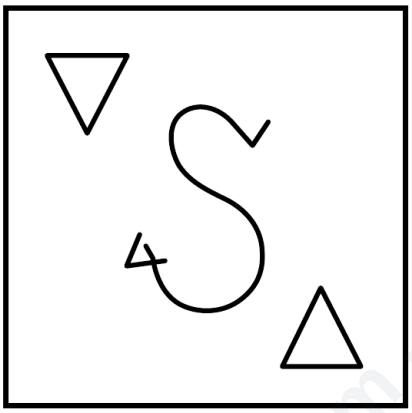
61, 65, 73, 85, 101, ?

(a) 123
(b) 119
(c) 121
(d) 120

Q29. Select the correct mirror image of the given figure when the mirror is placed at AB as shown below.

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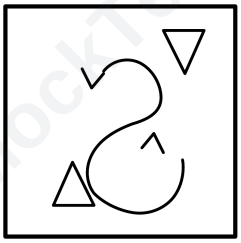
A



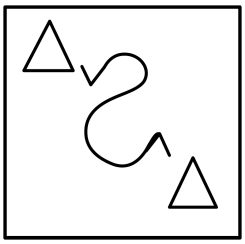


B

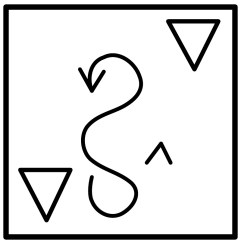
(a)



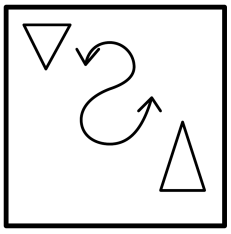
(b)



(c)



(d)



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Q30. Select the option that is related to the third number in the same way as the second number is related to the first number.

441 : 485 :: 676 : ?

(a) 1030
(b) 730
(c) 729
(d) 740

Q31. D, N, U, L and O are standing in a straight line facing north. N is standing to the immediate right of D, who is at the end. O is standing to the immediate left of L, who is not at the end. Who is standing to the immediate left of O?

(a) U
(b) N
(c) L
(d) D

Q32. In a certain code language, 'SETTLE' is coded as 'DLSTDS'. What is the code for 'STRUCK' in that code language?

(a) JTCRSS
(b) JCTRSS
(c) JCTRST
(d) JCTSRS

Q33. Select the option that is related to the third word in the same way as the second word is related to the first word.

Paradise : Heaven :: Faith : ?

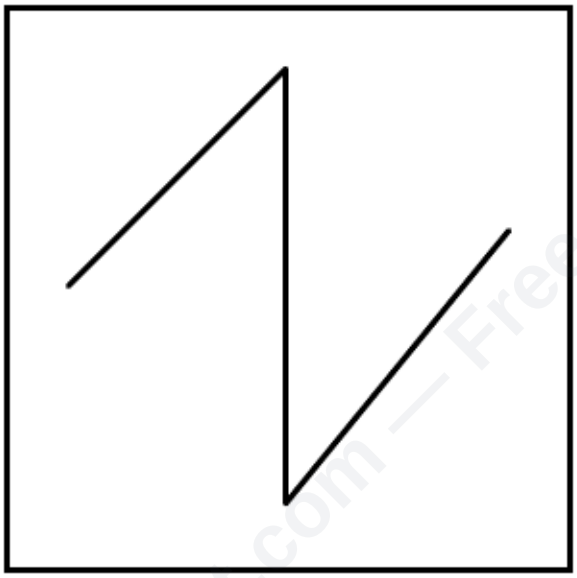
(a) Treasure
(b) Belief
(c) Disbelief
(d) Betrayal

Q34. Marks of five students Virat, Kamal, Anil, Sanjay and Rahul are compared. Marks of no two students are same. Marks of Anil are less than only two students. Marks of Kamal are not less than anyone. Marks of Sanjay are more than Anil and less than Kamal. If marks of Rahul are more than the marks of Virat, then marks of how many students are less than the marks of Virat?

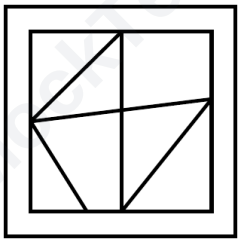
(a) 0
(b) 3
(c) 1
(d) 2

Q35. Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

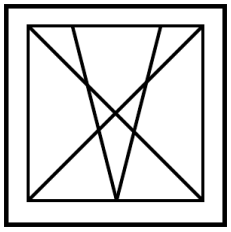
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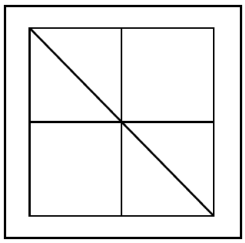
(a)



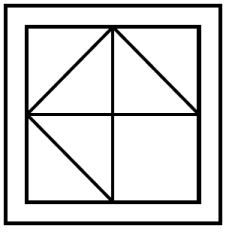
(b)



(c)



(d)



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Q36. In the following question, select the missing number of the given series.

40, 43, 52, 79, 160, ?

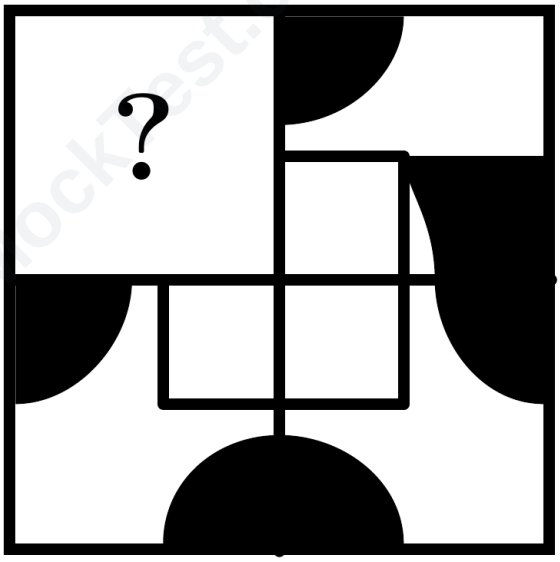
(a) 413
(b) 415
(c) 403
(d) 410

Q37. Which of the following letter cluster will replace the question mark (?) in the given series?

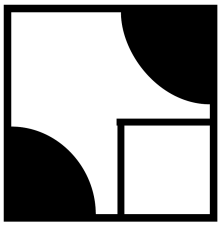
FT, IR, LP, ON, RL, UJ, ?

(a) HW
(b) XH
(c) FN
(d) MK

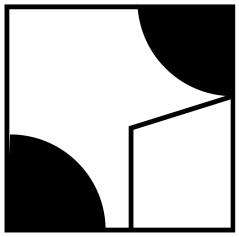
Q38. Which answer figure will complete the pattern in the question figure?



(a)

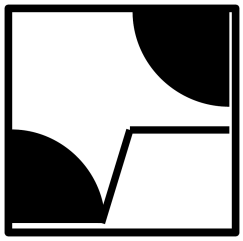


(b)

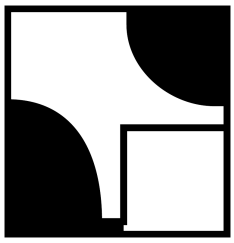


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(c)



(d)



Q39. In a certain code language, 'MAPS' is written as '49' and 'SOLD' is written as '50'. How will ' KIDS' be written in that language?

(a) 44
(b) 42
(c) 43
(d) 45

Q40. G, H, I, J and K are sitting around a circular table facing the centre. G is sitting to the immediate right of H. J is sitting between K and H. Who is sitting to the immediate left of K?

(a) G
(b) I
(c) J
(d) H

SESSION 2

Q41. Which famous Indian musician played shehnai and received Bharat Ratna in the year 2001?

(a) Pandit Ravi Shankar
(b) Pandit Shivkumar Sharma
(c) Ustad Zakir Hussain
(d) Ustad Bismillah Khan

Q42. Who among the following classical dancers was the first person from Odisha to be conferred the Padma Vibhushan?

(a) Deba Prasad Das
(b) Pankaj Charan Das
(c) Raghunath Dutta
(d) Kelucharan Mohapatra

Q43. Sri-Lanka is separated from India by _____.

(a) Palk strait
(b) Bering strait
(c) Malacca strait
(d) Strait of Gibraltar

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Q44. The outer-most range of the Himalayas is called the _____.

(a) Himavan
(b) Himadri
(c) Konkan
(d) Shiwaliks

Q45. _____ is the interest rate at which the Reserve Bank of India (RBI) lends money to commercial banks of the country.

(a) Base Rate
(b) Marginal Rate
(c) Repo Rate
(d) Reverse Repo Rate

Q46. Which festival is celebrated when the annual harvest takes place in Assam?

(a) Magh Bihu
(b) Makaravilakku
(c) Lohri
(d) Pongal

Q47. Power of High Courts to issue certain writs is included under which article of the Indian constitution?

(a) Article 224
(b) Article 226
(c) Article 220
(d) Article 222

Q48. The music of Bharatanatyam belongs to _____ of southern India.

(a) Folk system
(b) Carnatic system
(c) Fusion system
(d) Hindustani system

Q49. Which disease is caused by the deficiency of protein in the diet?

(a) Scurvy
(b) Jaundice
(c) Rickets
(d) Kwashiorkor

Q50. Which state was ranked first in the Pradhan Mantri Awas Yojana-Urban (PMAY-U) Awards 2021?

(a) Uttar Pradesh
(b) Kerala
(c) Tamil Nadu
(d) Haryana

Q51. Which Lodi ruler's (1489 AD-1517 AD) real name was Nizam Khan?

(a) Qutbuddin Mubarak Shah
(b) Ibrahim Lodi
(c) Bahlul Lodi
(d) Sikandar Lodi

Q52. Which of the following articles of the Indian Constitution mentions the fundamental duty "sovereignty, unity and integrity of India" is mentioned?

(a) Article 51A (b)
(b) Article 51A (d)
(c) Article 51A (e)
(d) Article 51A (c)

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Q53. Highest population density in India according to census 2011 is in _____.

(a) Madhya Pradesh
(b) Union Territory of Chandigarh
(c) National Capital Territory of Delhi
(d) Bihar

Q54. The rock shelters of Bhimbetka are in the foothills of which mountains?

(a) Vindhyan
(b) Zaskar
(c) Satpura
(d) Pir Panjal

Q55. Wightman Cup is associated with which of the following sports?

(a) Golf
(b) Hockey
(c) Tennis
(d) Cricket

Q56. Which of the following factors can affect distribution of population?

I. Geographical factors
II. Social factors
III. Cultural factors
IV. Economic factors

(a) I, II, III and IV
(b) I and II only
(c) I, II, III only
(d) II and III only

Q57. Dr. B.R Ambedkar was associated with which of the following communities?

(a) Berar
(b) Santal
(c) Sangoi
(d) Mahar

Q58. As of November 2022, what is the capital of India's neighbouring country Bhutan?

(a) Thimphu
(b) Dhaka
(c) Paro
(d) Beijing

Q59. In 1900, India participated in Olympics games which was held in _____.

(a) Paris
(b) Athens
(c) Berlin
(d) Tokyo

Q60. How many Indian states celebrate their formation on November 1^(st)?

(a) Six
(b) Eight
(c) Five
(d) Seven

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Q61. Bhagat Singh was executed on March 23, 1931 along with _____.

(a) Sukhdev and Chandra Shekhar Azad
(b) B.K. Dutt and Rajguru
(c) Sukhdev and Rajguru
(d) Sukhdev and B.K. Dutt

Q62. Which among the following gases is used in the artificial ripening of fruits?

(a) Argon
(b) Freon
(c) Helium
(d) Acetylene

Q63. Which of the following mountain range is the oldest in India?

(a) Purvanchal Range
(b) Western Ghats
(c) Aravalli Range
(d) Satpura and Vindhaya Range

Q64. The blood platelets are also known as _____.

(a) thrombocytes
(b) leucocytes
(c) erythrocytes
(d) thrombin

Q65. Who among the following is the author of 'River of Smoke' novel?

(a) Jeet Thayil
(b) Amitav Ghosh
(c) Manohar Malgonkar
(d) B.B. Lal

Q66. Select the most appropriate synonym to substitute the bracketed word in the given sentence.

Spreading from the ports, Formosan termites began a (subterranean) colonization of the country.

(a) Overt
(b) Underground
(c) Subcutaneous
(d) Terrestrial

Q67. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.

(Then got of on) a station in the very heart of London.

(a) They got off at
(b) They got off on
(c) They got of by
(d) No correction required

Q68. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

Land management choices also affect the amount of carbon stored on trees.

(a) carbon stored on trees.
(b) No error
(c) also affect the amount of
(d) Land management choices

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Q69. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

For example, the parent mountain/ of Mont Blanc, the/ high peak in the Alps, is the Mount Everest.

(a) of Mont Blanc, the
(b) high peak in the Alps, is the Mount Everest.
(c) No error
(d) For example, the parent mountain

Q70. Select the most appropriate antonym to substitute the bracketed word in the given sentence.

For high-moisture areas, like kitchens and baths or where (frequent) cleaning is required, use only oil-based.

(a) constant
(b) confirmed
(c) dawdle
(d) seldom

Q71. Fill in the blank with the most appropriate option.

They bought _____ tickets instead from a sleepy-looking guard.

(a) there
(b) dire
(c) their
(d) dare

Q72. Select the most appropriate antonym of the given word.

Glamour

(a) Appeal
(b) Charm
(c) Dullness
(d) Magnanimous

Q73. Choose the incorrectly spelt word.

(a) Decrease
(b) Rocking
(c) Frame
(d) Graetar

Q74. Four sentences are given, out of which three have spelling errors. Choose the sentence with all correctly spelt words.

(a) The Secretary requested to be informed only as necesary to perform his job.
(b) Moving between floors, their journey seems both improbable and inevitible.
(c) The extended phenotype is noticeable when we look at parasites.
(d) They predicted a similarlly miniscule drop for September.

Q75. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

He teaches me algebraic and geometry twice a week.

(a) taught I algebra
(b) No improvement
(c) teaches me algebra
(d) teach me algebraic

Q76. Choose the word that can substitute the given group of words.

Fit to drink

(a) Liable
(b) Deplorable
(c) Potable
(d) Ostensible

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Q77. Identify the segment that contains a grammatical error. If there is no error, select 'No error'.

Do you think I'd rather / be stuck in a room with that old / toad or be played Quidditch?

(a) Do you think I'd rather
(b) toad or be played Quidditch?
(c) be stuck in a room with that old
(d) No error

Q78. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully. Select the option 'no correction required' if the sentence is correct as given.

We saw him (the more) during Hogsmeade weekend.

(a) the bigger
(b) the most
(c) the many
(d) No correction required

Q79. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom /Phrase.

To pick holes in someone's coat

(a) To aspire for something difficult
(b) To deceive someone for personal gain
(c) To find fault with someone
(d) To discharge one's duty well

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

Nickel or brass can cause an allergic reaction when in _____ with human skin.

(a) surface
(b) accordance
(c) parallel
(d) contact

Q81. Select the most appropriate word for the given group of words.

A person who likes or admires women

(a) Misogynist
(b) Philogynist
(c) Conversationalist
(d) Polyglot

Q82. Select the most appropriate meaning of the given idiom.

Add fuel to the fire

(a) Having to start all over again
(b) To make an argument or bad situation worse
(c) A mistake made in something you are trying to achieve
(d) When an attempt fails and it's time to start all over

Q83. Select the most appropriate option to fill in the blank.

Indonesian police fired warning shots, tear gas and water cannon to try and _____ the crowd.

(a) Disperse
(b) Deleterious
(c) Delimit
(d) Discrete

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Q84. Select the appropriate synonym for the underlined word.

I mean that is a remarkable finding.

(a) subtle
(b) standard
(c) noticeable
(d) Dim

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

My friends, being incredibly nerdy linguists, _____ to make fun of the syntax.

(a) traded
(b) braided
(c) decided
(d) stalked

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.

A loud, echoing crack broke the sleepy (1) ____ like a gunshot; a cat streaked out (2) __ a parked car and flew out of sight; a shriek, a bellowed oath and the (3) __ of breaking (4) __ came from the Paula's living room, and as (5) ____ this was the signal Mansi had been waiting for.

Q86. Select the most appropriate option to fill in the blank No. 1.

(a) blast
(b) lull
(c) blackout
(d) silence

Q87. Select the most appropriate option to fill in the blank No. 2.

(a) by under
(b) from over
(c) from under
(d) side under

Q88. Select the most appropriate option to fill in the blank No. 3.

(a) sound
(b) intact
(c) flawless
(d) vibrant

Q89. Select the most appropriate option to fill in the blank No. 4.

(a) china
(b) heart
(c) tyre
(d) atrocity

Q90. Select the most appropriate option to fill in the blank No. 5.

(a) like
(b) throughout
(c) though
(d) through

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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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