SSC MTS 2024 Official Paper (Held On: 21 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. A man bought an article for Rs. 500 and sold it for Rs. 400. Find his loss percentage.

(a) 25%
(b) 20%
(c) 30%
(d) 100%

Q2. Two numbers are in the ratio of 7:9 and their LCM is 630. Find the numbers

(a) 56, 72
(b) 77, 99
(c) 70, 90
(d) 63, 81

Q3. The ratio of cost price to marked price of a shirt is 3 : 5. If a shopkeeper earned 33 1/3 % profit on the sale of the shirt, then the discount given on the marked price was:

(a) 20%
(b) 10%
(c) 25%
(d) 15%

Q4. Find the simple interest (in Rs.) on Rs. 3500 as a sum borrowed at 4% per year rate of interest for 4 years.

(a) 600
(b) 520
(c) 500
(d) 560

Q5. The sum of the radius and slant height of a cone is square of the height of the cone, while the difference between the radius and slant height is 1 cm only. What is the total surface area (in cm^2) of the cone having height of 9 cm? (Take $\pi = 22/7$) (Rounded off to 2 decimal places)

(a) 10,437.43
(b) 11,282.85
(c) 10,182.86
(d) 10,128.85

Q6. One train is moving with at twice the speed of a second train. The lengths of the trains are equal. The ratio of the time taken by these trains to cross each other when moving in the same direction and in opposite directions, respectively, is:

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

Q7. A boat can travel at a speed of 42 km/hr in still water. If the speed of the stream is 3 km/hr, how much time (in hours and minutes) will be taken by the boat to go 157.5 km downstream, and then 78 km upstream?

(a) 6 h 20 min
(b) 4 h 45 min
(c) 5 h 30 min
(d) 7 h 25 min

Q8. A vessel contains 80 litres of a mixture of alcohol and water in the ratio of 3 : 7. If 40 litres of the mixture is taken out from the vessel and replaced with 40 litres of water, then the ratio of alcohol and water becomes:

(a) 3 : 17
(b) 1 : 11
(c) 3 : 23
(d) 2 : 15

Q9. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 65 kg and 39 kg is:

(a) 48.8
(b) 49.8
(c) 50.8
(d) 51.8

Q10. There are two groups C and D of a class consisting of 32 and 40 students, respectively. If the average weight of group C is 60 kg and that of group D is 33 kg, then find the average weight of the whole class.

(a) 46.5 kg
(b) 45 kg
(c) 45.2 kg
(d) 44.4 kg

Q11. b is the sum of two quantities, one of which varies inversely as the square of a^2, and the other of which varies directly as a. Identify the relationship between a and b if b = 49 when a = 3 or 5.

(a) $a = 3b$
(b) $a = 3b^2 - 7/a$
(c) $b = 8a + 225/a^2$
(d) $b = 2a$

Q12. If apples and pears in a basket are in the ratio of 5 : 8, then find the percentage of pears (correct to two decimal places) in the basket.

(a) 69.5%
(b) 63.45%
(c) 61.54%
(d) 59.44%

Q13. Study the given table carefully and answer the question that follows. The below table shows the production of the number of bottles (1 L) of soft drinks of three companies during 2016-2020.

Year	A (in lakhs)	B (in lakhs)	C (in lakhs)
2016	38000	43000	52000
2017	42000	52000	58000
2018	53000	65000	63000
2019	30000	35000	32000
2020	20000	25000	28000

What was the percentage decrease in B's production in 2020 as compared to B's production in 2018 (approximate to two decimals)?

(a) 60%
(b) 75.50%
(c) 85.56%

(d) 61.54%

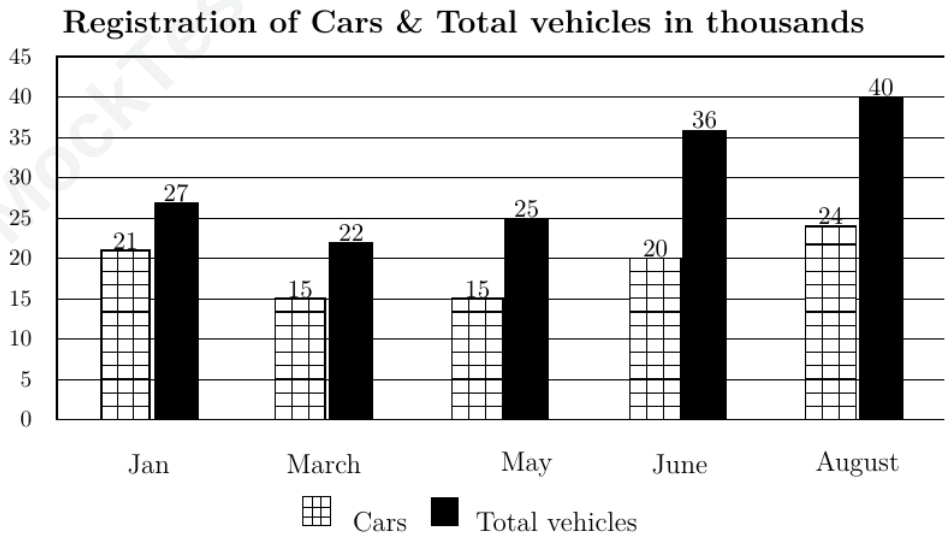
Q14. The whole surface area of a right circular cone of radius 15 metres and height 8 metres is:

(a) 480 π m²
(b) 350 π m²
(c) 540 π m²
(d) 640 π m²

Q15. The average weight of two persons A and B is 70 kg. Another person C joins A and B and the average weight now becomes 72 kg. If another person D, whose weight is 2 kg less than that of C, replaces A, then the average weight of B, C and D becomes 70 kg. Find the weight of A (in kg).

(a) 75
(b) 80
(c) 73
(d) 74

Q16. The bar graph shows the number of cars and the number of total vehicles in thousands, registered in given months. What was the total number of vehicles other than cars registered in the given months?



(a) 48000
(b) 54000
(c) 55000
(d) 52000

Q17. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 5% per year rate of interest for 5 years.

(a) 665
(b) 585
(c) 625
(d) 565

Q18. Akhil bought two articles at Rs. 4,500 each. He sold one article at a 12% gain but had to sell the second article at a loss. If he had suffered a loss of Rs. 395 on the whole transaction, then what was the selling price of the second article?

(a) Rs. 3,500
(b) Rs. 3,595
(c) Rs. 3,565
(d) Rs. 3,550

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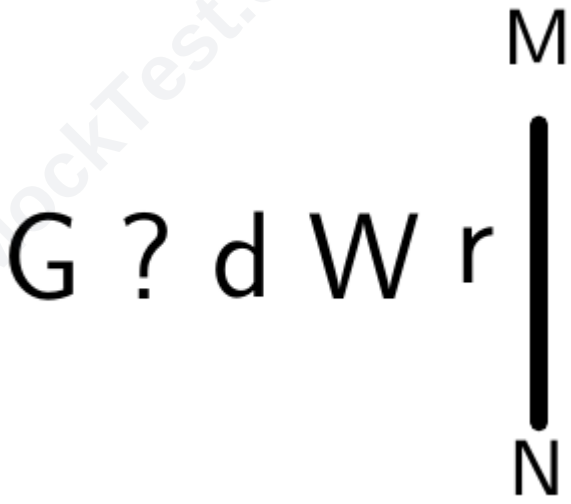
Q19. A cylinder of radius 10 cm and height 30 cm is cut, parallel to the base, into two pieces of different sizes. The total surface area of the larger piece formed is 70% of that of the given cylinder. The smaller piece is melted and made into a sphere. The radius (in cm) of the sphere is:

(a) cbrt821
(b) cbrt900
(c) cbrt986
(d) cbrt844

Q20. A sum of money was lent on simple interest. After 7 years it's simple interest became 7/10 of it. Find the rate of interest per annum.

(a) 10%
(b) 12%
(c) 8%
(d) 5%

Q21. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)

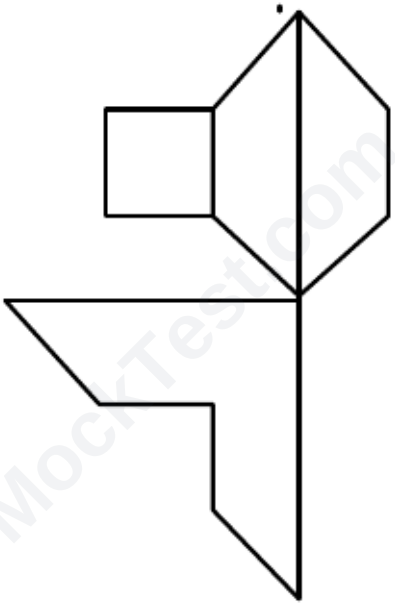


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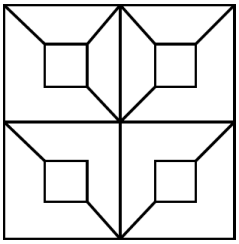
(d)



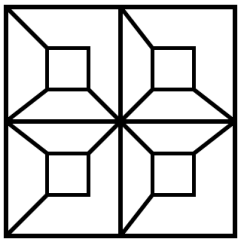
Q22. Select the option in which the given figure is embedded (rotation is NOT allowed).



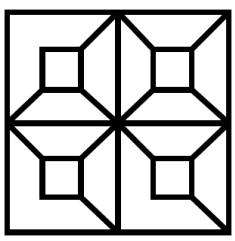
(a)



(b)

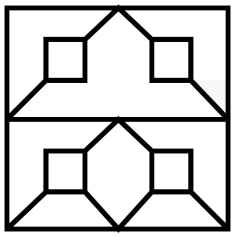


(c)



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(d)



Q23. Seven friends - P, Q, R, A, X, Y, and Z - are sitting around a circular table, facing the centre (but not necessarily in the same order). Y is sitting sixth to the right of Q. P is sitting third to the left of Y. A has Q and X as immediate neighbours. Z is to the immediate right of P.

Who is sitting to the immediate right of R?

(a) Q
(b) P
(c) Y
(d) X

Q24. What will come in the place of the question mark (?) in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

25 – 45 × 9 ÷ 5 + 20 = ?

(a) 30
(b) 35
(c) 33
(d) 32

Q25. In a certain code language, 'life is rude' is written as 'tp ck gn' and 'this isn't life' is written as 'gn dl sb'. How is 'life' written in that code language?

(a) ck
(b) gn
(c) tp
(d) dl

Q26. What should come in place of the question mark (?) in the given series?

7 ? 22 37 57 82

(a) 17
(b) 20
(c) 10
(d) 12

Q27. In a certain code language, 'CREAM' is coded as '24598' and 'CARES' is coded as '59782'. What is the code for 'M' in the given code language?

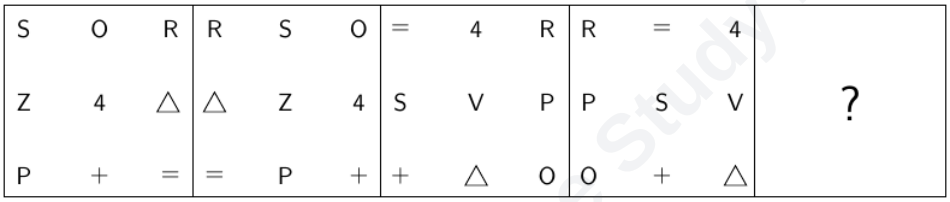
(a) 9
(b) 2
(c) 7
(d) 4

Q28. In a certain code language, 'COST' is coded as '5971' and 'SALE' is coded as '8692'. What is the code for 'S' in that language?

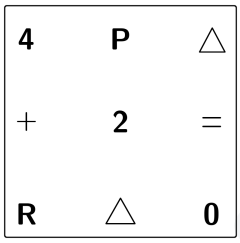
(a) 8
(b) 9
(c) 6
(d) 7

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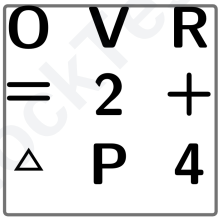
Q29. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.



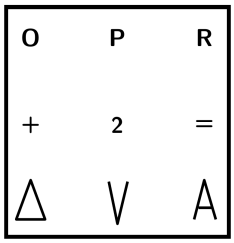
(a)



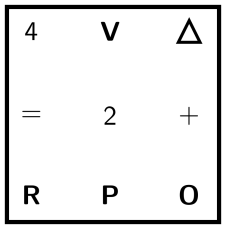
(b)



(c)



(d)



Q30. VDIZ is related to ZGKA in a certain way based on the English alphabetical order. In the same way, HNAS is related to LQCT. To which of the following is BJWP related, following the same logic?

(a) DKXR
(b) ENAS
(c) FMYQ
(d) DLZR

Q31. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(5, 14, 24)

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(9, 6, 24)

(a) (15, 19, 89)
(b) (17, 10, 42)
(c) (21, 23, 55)
(d) (11, 12, 34)

Q32. What will come in place of the question mark (?) in the following equation if '+' and '–' are interchanged and '×' and '÷' are interchanged?

121 + 1 – 6 ÷ 16 × 8 = ?

(a) 164
(b) 132
(c) 124
(d) 145

Q33. CTVU is related to EVXW in a certain way based on the English alphabetical order. In the same way, BKGI is related to DMIK. To which of the following is SAEH related, following the same logic?

(a) MPEF
(b) LOJI
(c) HYTF
(d) UCGJ

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:

All eggs are chickens.

No chicken is a hen.

Conclusions:

(I) All chickens are eggs.

(II) No egg is a hen.

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

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

AZB, BYC, CXD, DWE, ?

(a) EFU
(b) GUH
(c) FVE
(d) EVF

Q36. A, B, C, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order). Only 2 people sit between B and D when counted from the left of D. E and C are immediate neighbours of A. G sits immediately to the right of F. Only 1 person sits between F and E when counted from the right of E. Who sits immediately to the left of F?

(a) G
(b) A
(c) B
(d) D

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Q37. 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 conclusion(s) logically follow(s) from the statement(s).

Statements:

Some mats are carpets.

All carpets are sheets.

Conclusions:

(I) Some mats are sheets.

(II) All sheets are carpets.

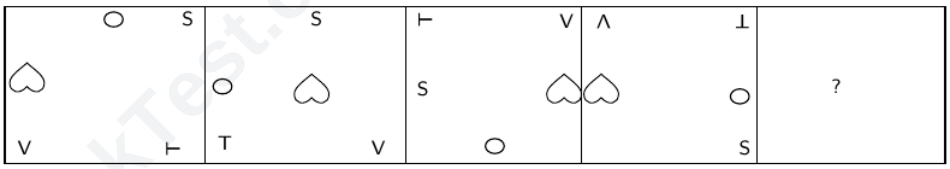
(a) Only conclusion (I) follows.

(b) Neither conclusion (I) nor (II) follows.

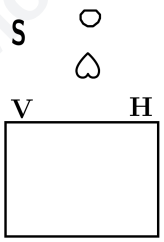
(c) Only conclusion (II) follows.

(d) Both conclusions (I) and (II) follow.

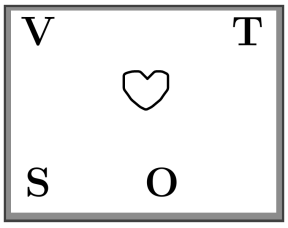
Q38. Select the figure from among the given options that can replace the question mark (?) in the following series.



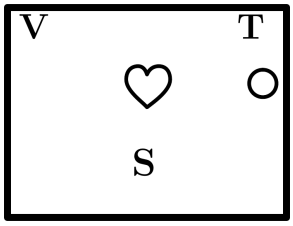
(a)



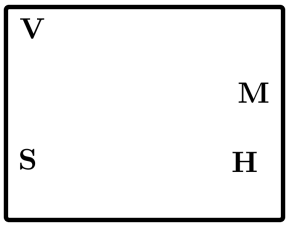
(b)



(c)



(d)



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Q39. 5 is related to 77 following a certain logic. Following the same logic, 9 is related to 137. To which of the following is 3 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) 44
(b) 47
(c) 49
(d) 45

Q40. In a certain code language, 'HOST' is coded as '2846' and 'TEAM' is coded as '3587'.

What is the code for 'T' in the given code language?

(a) 3
(b) 7
(c) 6
(d) 8

SESSION 2

Q41. Who among the following was awarded the Sansad Ratna Award 2023 and represents the Indian National Congress in Lok Sabha from West Bengal?

(a) Kuldeep Rai Sharma
(b) Adhir Ranjan Chowdhury
(c) Sudhir Gupta
(d) Bidyut Baran Mahato

Q42. Where is the Kala Ghoda Arts Festival organised every year?

(a) Mumbai
(b) New Delhi
(c) Chennai
(d) Bengaluru

Q43. Who wrote the novel 'Amrit Aur Vish'?

(a) Vishnu Prabhakar
(b) Shreelal Shukla
(c) Amritlal Nagar
(d) Ramdhari Singh Dinkar

Q44. Who inaugurated 'Vibrant Village Program' in April 2023?

(a) Ashwini Vaishnav
(b) Hardeep Puri
(c) Amit Shah
(d) Narendra Modi

Q45. The 'Dhansiri' and 'Subansiri' are the tributaries of _____ River.

(a) Sutlej
(b) Brahmaputra
(c) Godavari
(d) Mahanadi

Q46. Why are wealth taxes and gift taxes treated as paper taxes in India?

(a) It is not mandatory for the government to collect these taxes.
(b) They do not generate much revenue in comparison to others.
(c) Tax payers need to fill out forms only in paper and submit returns.

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(d) They are paid only by government employees, members of the Parliament and Legislative assemblies.

Q47. What is the primary role of autotrophic organisms in an ecosystem?

(a) Breaking down dead organisms
(b) Producing organic matter from inorganic substances
(c) Preying on other organisms for food
(d) Converting organic matter into energy

Q48. Which of the following water bodies are also known as nurseries of the ocean?

(a) Lagoons
(b) Estuaries
(c) Dams
(d) Bogs

Q49. Identify the Kuchipudi dancer, actor and film producer who won the best choreography award at the 68th National Film Awards 2022.

(a) Birju Maharaj
(b) Ganesh Acharya
(c) Sandhya Raju
(d) Remo D'Souza

Q50. Tanras Khan is associated with which of the following gharanas?

(a) Delhi gharana
(b) Benaras gharana
(c) Agra gharana
(d) Indore gharana

Q51. According to the standard definition of Census of India, the marginal worker is a person who works for less than _____ days in a year.

(a) 180
(b) 173
(c) 170
(d) 183

Q52. The Banaras session of the Indian National Congress in 1905 was presided over by _____.

(a) Mahatma Gandhi
(b) Subhas Chandra Bose
(c) Jawaharlal Nehru
(d) Gopal Krishna Gokhale

Q53. The 'Agaria' community of the 19th century was associated with which of the following industries?

(a) Iron industry
(b) Cotton textile industry
(c) Wood industry
(d) Agro Industry

Q54. Pushyamitra Sunga's capital was at:

(a) Pataliputra
(b) Kalinga
(c) Nalanda
(d) Cuttack

Q55. What is the charge of an electron?

(a) Positive
(b) Neutral
(c) Variable

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(d) Negative

Q56. Excessive bleeding from wounds may happen due to lack of ____.

(a) Vitamin E
(b) Vitamin A
(c) Vitamin B12
(d) Vitamin K

Q57. What is the term for a dome-shaped monument that contains sacred relics in Buddhism?

(a) Vihar
(b) Stambha
(c) Chaitya
(d) Stupa

Q58. In which of the following cases did the Supreme Court of India propound the Basic Structure Doctrine of the Constitution?

(a) Kesavanand Bharti vs. State of Kerala Case
(b) Maneka Gandhi vs Union of India Case
(c) Golaknath vs. State of Punjab Case
(d) Indira Gandhi vs. Raj Narayan Case

Q59. Anahat Singh is associated with which of the following sports events?

(a) Squash
(b) Chess
(c) Badminton
(d) Wrestling

Q60. Fugdi is famous dance of the state of _____.

(a) Tamil Nadu
(b) Uttarakhand
(c) Punjab
(d) Goa

Q61. The Border-Gavaskar trophy is played between _____.

(a) India and New Zealand
(b) India and Pakistan
(c) India and Australia
(d) India and England

Q62. Which of the following reports is considered as a piecemeal effort to provide resilience to the successful working of federal system?

(a) Sarkaria Commission
(b) Kothari Commission
(c) Thakkar Commission
(d) Kapur Commission

Q63. In 1527, Babur defeated Rana Sanga, the Rajput ruler of Mewar in the Battle of _____.

(a) Tarain
(b) Khanwa
(c) Chanderi
(d) Panipat

Q64. According to the Multidimensional Poverty Index 2023, which union territory has the least percentage of poor?

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

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(d) Chandigarh

Q65. The North-South National Highway Corridor connects which two UTs/States of India?

(a) Jammu and Kashmir - Telangana
(b) Ladakh - Kerala
(c) Delhi - Odisha
(d) Jammu and Kashmir - Tamil Nadu

Q66. Select the most appropriate meaning of the underlined phrase.

In the absence of government rule, riots have broken out all over the country and everything is in a state of complete chaos.

(a) Anarchy
(b) Oligarchy
(c) Dictatorship
(d) Monarchy

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

The detail given by the instructor was the _____ one.

(a) more updation
(b) most updated
(c) updating
(d) updates

Q68. Select the option that will improve the underlined part of the given sentence.

You can do your work well within the stipulated time and be more productive if you learn to keep video games at the length of your arm.

(a) at arm of his length
(b) at arm's weight
(c) at arm of your length
(d) at arm’s length

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

Looking up, she realised she had swum _____ than she'd thought.

(a) farther
(b) furthest
(c) farthest
(d) further

Q70. 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.

The recommendations of the committee / regarding changes in the eligibility criteria / was not accept.

(a) No Error
(b) regarding changes in the eligibility criteria
(c) The recommendations of the committee
(d) was not accept

Q71. The following sentence has been split into four segments. Identify the segment that contains a grammatical error:

He sings good / among all the / contestants in / the singing competition.

(a) contestants in
(b) He sings good
(c) the singing competition
(d) among all the

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Q72. Select the INCORRECTLY spelt word.

(a) humorous
(b) achieve
(c) familiar
(d) paralel

Q73. Select the INCORRECTLY spelt word.

(a) Consciencious
(b) Unanimous
(c) Millennium
(d) Inconvenience

Q74. Select the grammatically correct sentence.

(a) A myriad of possibilities unfolds when the artist embarks on the journey of creative experimentation.
(b) A myriad of possibilities unfolds when an artist embarks on a journey of creative experimentation.
(c) The myriad of possibilities unfolds when the artist embarks on a journey of creative experimentation.
(d) The myriad of possibilities unfolds when an artist embarks on the journey of creative experimentation.

Q75. Select the word that has the same meaning (SYNONYM) as the underlined word in the given sentence.

The prisoners were living in appalling conditions.

(a) daring
(b) ingenious
(c) risky
(d) shocking

Q76. Select the option that can be used as a one-word substitute for the given group of words.

One who brings a legal action against someone in court.

(a) Sanctimonious
(b) Numismatic
(c) Pragmatist
(d) Plaintiff

Q77. Select the INCORRECTLY spelt word.

(a) Abstract
(b) Abscess
(c) Abstinent
(d) Absense

Q78. 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'.

There have been numerous attempts made by the citizens to restore parity.

(a) No substitution
(b) Most numerous
(c) More numerous
(d) Quite numerous

Q79. Select the word that is opposite in meaning (ANTONYM) to the highlighted word in the given sentence.

We enjoyed the gentle breeze that was blowing.

(a) violent
(b) garnished
(c) modest
(d) soft

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

Siva is a hard worker. He works _____.

(a) bad
(b) scarcely
(c) hardly
(d) hard

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

I could ___ the reason for being ___.

(a) bard; barred
(b) fine; find
(c) find; fined
(d) barred; bard

Q82. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Siliguri has joined the nation to celebrate the golden jubilee of the first conquest of Mount Everest by an Indian.

(a) joins the celebratory nation
(b) joining the nation celebrate
(c) No improvement required
(d) joined the national celebration

Q83. Select the grammatically correct sentence.

(a) Our Principal is a great teacher and administrator.
(b) Our Principal is a great teacher and a great administrator.
(c) Our Principal is a great teacher and an administrator.
(d) Our Principal is great teacher and administrator.

Q84. Select the most appropriate idiom to substitute the underlined word segment in the given sentence.

If the two families could forget their past quarrels forever, both could benefit immensely.

(a) cut to the quick
(b) catch a tartar
(c) do a good turn
(d) bury the hatchet

Q85. Select the most appropriate ANTONYM of the given word.

Presumably

(a) Certainly
(b) Liberally
(c) Unlikely
(d) Successfully

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.

The habit of reading is highly advantageous to us intellectually, emotionally and spiritually. As one gets into the habit of reading, one gets mental (1)_____. It helps us acquire (2)____ and attain intellectual (3)_____. Reading takes away our (4)_____. Reading can bring (5)_____ in our sorrowful times and guide us in our duties.

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

(a) coverage
(b) success
(c) satisfaction
(d) exhaustion

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

(a) readiness
(b) employment
(c) knowledge
(d) strategies

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

(a) creation
(b) stagnation
(c) compression
(d) expansion

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

(a) time
(b) vigour
(c) boredom
(d) concern

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

(a) comfort
(b) resentment
(c) lethargy
(d) oppression

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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