SSC MTS 2024 Official Paper (Held On: 23 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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SESSION 1

Q1. The ratio of per kg market price of rice to that of wheat flour is 7: 9 and the ratio of their quantities consumed by a family is 9: 11. Find the ratio of the family's expenditure on rice to that on wheat flour.

(a) 7 : 9
(b) 7 : 11
(c) 11 : 9
(d) 9 : 11

Q2. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 8% per year rate of interest for 3 years.

(a) 760
(b) 660
(c) 720
(d) 680

Q3. Find the average of the numbers 1, −1, 0 and 2.

(a) 2
(b) 4
(c) 0.5
(d) 1.5

Q4. Find the simple interest (in Rs.) on Rs. 2000 as a sum borrowed at 9% per year rate of interest for 3 years.

(a) 580
(b) 480
(c) 540
(d) 500

Q5. A vendor loses the selling price of 4 oranges on selling 36 oranges. His loss percentage is:

(a) 15%
(b) 11frac19%
(c) 10%
(d) 20%

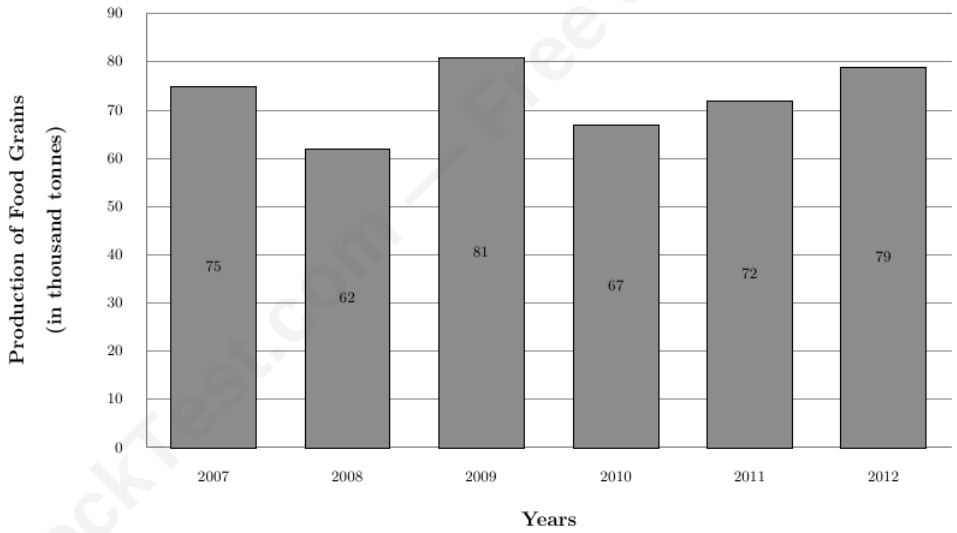
Q6. The given table shows the number of chocolates produced by five factories over 3 years.

Year	Factory				
	P	Q	R	S	T
2020	15,230	10,250	12,390	16,250	15,840
2021	12,110	13,256	17,820	14,561	13,258
2022	18,450	14,215	12,350	10,259	16,575

What is the average number of chocolates produced by factory S over the years?

(a) 11230
(b) 13690
(c) 12320
(d) 10290

Q7. The given graph shows the production of food grains of a country in different years. Study the graph and answer the question that follows.



The percentage increase in production from 2010 to 2011 was (Rounded off to 2 decimal places):
(a) 7.46%
(b) 6.38%
(c) 5.12%
(d) 4.23%

Q8. By selling an item for Rs. 125, S earns 12% profit. What is the cost of the item (in Rs.)? (Correct up to 2 decimal digits)
(a) 111.16
(b) 111.61
(c) 116.61
(d) 116.16

Q9. After how many years will a sum of Rs. 8,925 at simple interest fetch a total amount of Rs. 12,941.25 at the rate of 9% per annum?
(a) 6 years
(b) 5 years
(c) 3 years
(d) 4 years

Q10. A solid top is in the form of a cone surmounted by a hemisphere. If the volume of the solid is 2816 cm^3 and the radius of the hemispherical part is 8 cm, then the height of the top is:
(Take π = frac227)
(a) 26 cm
(b) 50 cm
(c) 34 cm
(d) 42 cm

Q11. The least number of five digits which is exactly divisible by each one of the numbers 12, 15 and 18 is:
(a) 10010
(b) 10015
(c) 10080

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(d) 10020

Q12. In an experiment to determine the refractive index of water, a student took five sets of observations and got the values for the refractive index of water as 1.32, 1.37, 1.36, 1.39 and 1.31. What is its average value?

(a) 1.36
(b) 1.33
(c) 1.35
(d) 1.34

Q13. The price of a book is first increased by 10% and then again by 20%. If the price of the book after both increments is Rs. 33, then the original price (in Rs.) of the book is:

(a) 30
(b) 32
(c) 33
(d) 25

Q14. If the speed of a boat going downstream is 40 km/h and its speed going upstream is 20 km/h, then find the speed of the stream (in km/h).

(a) 10
(b) 15
(c) 20
(d) 40

Q15. The internal and external diameters of a hollow hemispherical vessel are 28 cm and 32 cm, respectively. The cost incurred to paint 1 cm^2 of the vessel surface is Rs. 2.50. Find the total cost incurred to paint the vessel all over, correct to two decimals.

(Use π = frac227)

(a) Rs. 7,574.28
(b) Rs. 7,745.28
(c) Rs. 5,774.28
(d) Rs. 7,547.28

Q16. Find the curved surface area of the cylinder which has a height of 25 m and a base of radius 7 m.

(a) 2200 m^2
(b) 550 m2
(c) 1100 m2
(d) 733 m2

Q17. Suman travels the first 330 km by train at a speed of 110 km/hr and the next 165 km by bus at 55 km/hr. Ignoring the buffer time between different modes of travel, the average speed (in km/hr) for her tour was:

(a) 85.5
(b) 821/2
(c) 791/3
(d) 90

Q18. The average score in the Mathematics exam of a class of 60 students is 52. A group of 8 boys with an average score of 40 left the class and another group of 10 boys with an average score of 43 joined the class. What is the new average score of the class? (correct to one decimal place)

(a) 55.7
(b) 52.1
(c) 53.9
(d) 50.5

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Q19. The marked price of a trouser is Rs. 1,200. A shopkeeper offers 20% discount on this trouser and then again offers 30% discount on the discounted price. What is the final price of the trouser?

(a) Rs. 650
(b) Rs. 672
(c) Rs. 655
(d) Rs. 665

Q20. In an NCC camp, the average weight was 72 kg. If 5 cadets having average weight 76 kg leave and 11 cadets of average weight 79 kg join the group, the average weight of the cadets in the group increases by 0.6 kg. The number of cadets, initially in the group was:

(a) 81
(b) 91
(c) 89
(d) 85

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

99 + 9 – 19 × 59 ÷ 29 = ?

(a) 153
(b) 179
(c) 189
(d) 169

Q22. 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 statement(s).

Statements:

Some pigs are frogs.

All bats are pigs.

Conclusions:

(I) At least some bats are frogs

(II) All pigs are bats.

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

Q23. In a certain code language, 'pass the ball' is coded as 'bq tr vl' and 'ball is red' is coded as 'hx vo bq'. How is 'ball' coded in the given language?

(a) tr
(b) vl
(c) bq
(d) hx

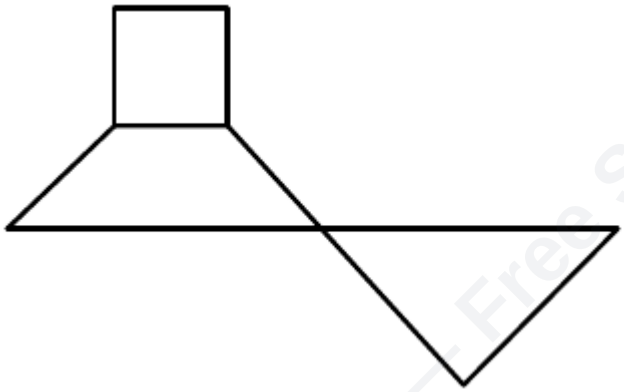
Q24. 8 is related to 62 following a certain logic. Following the same logic, 11 is related to 119. To which of the following is 15 related, following the same logic?

[NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. Eg. 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.]

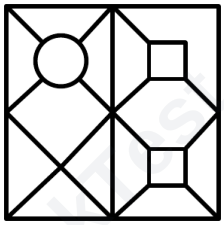
(a) 423
(b) 223
(c) 123
(d) 323

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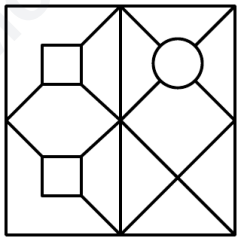
Q25. Select the option in which the given figure is embedded (rotation is NOT allowed).



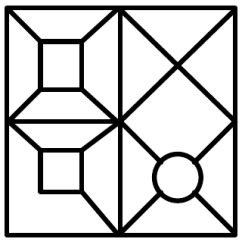
(a)



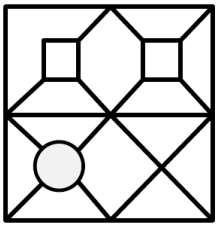
(b)



(c)



(d)

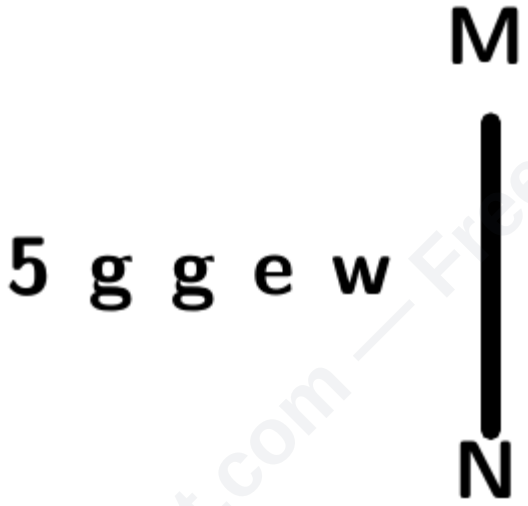


Q26. EMHD is related to GOJF in a certain way based on the English alphabetical order. In the same way, IQLH is related to KSNJ. To which of the following is LTOK related following the same logic?

(a) NVMQ
(b) NVQM
(c) VNMQ
(d) VNQM

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Q27. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



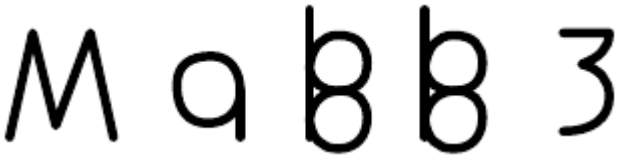
(a)



(b)



(c)



(d)



Q28. What should come in place of '?' in the given series?

17, 32, 93, 460, 3213, ?

(a) 28908

(b) 35332

(c) 22484

(d) 25696

Q29. 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 vases are portraits.

Some portraits are flowers.

Conclusions:

(i) All flowers are vases.

(ii) Some flowers may be portraits.

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

Q30. 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.)

(17, 10, 95)

(2, 11, 21)

(a) (20, 16, 26)
(b) (19, 18, 30)
(c) (10, 6, 56)
(d) (24, 18, 128)

Q31. In a certain code language, 'they may go tomorrow' is written as 'di hi bi fi' and 'we will come tomorrow' is written as "li ji mi hi". How is "tomorrow' written in the given language?

(a) di
(b) li
(c) hi
(d) mi

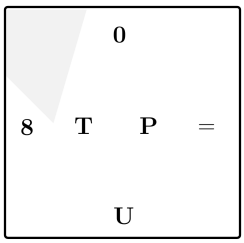
Q32. In a certain code language, ‘under the impression’ is written as ‘ly ga po’ and ‘first impression matters’ is writtenas ‘ka mo po’. How will ‘impression’ be writtenin that language?

(a) ly
(b) po
(c) mo
(d) ka

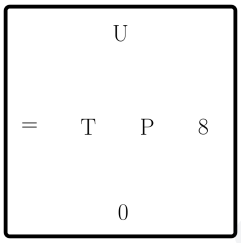
Q33. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.

= P O U T 8	U T = 8 P O	P U 8 = O T	= O P T U 8	?

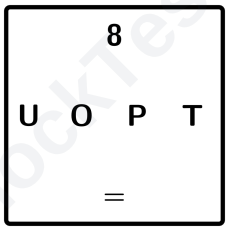
(a)



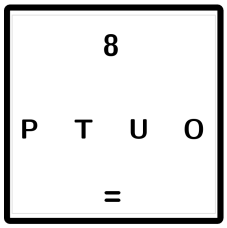
(b)



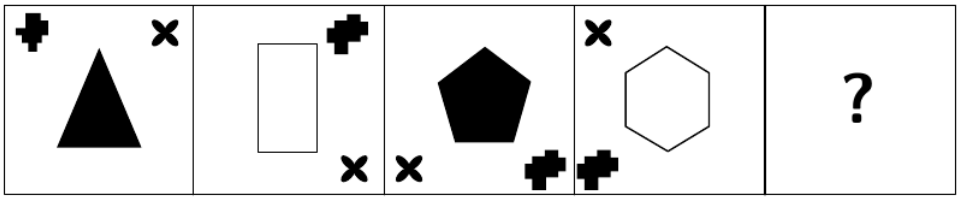
(c)



(d)



Q34. Identify the figure given in the options which when put in place of ? will logically complete the series.

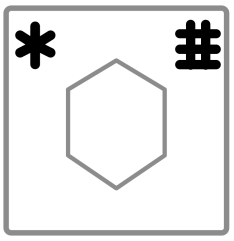


(a)

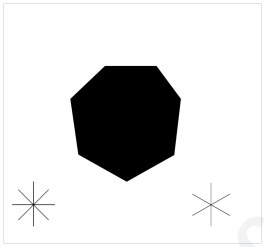


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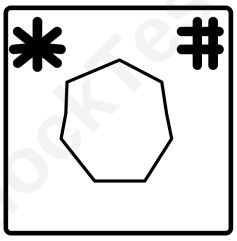
(b)



(c)



(d)



Q35. A, B, C, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order). B sits second to the right of E, who is second to the right of C. G sits third to the left of D, who is not an immediate neighbour of F. A sits second to the right of D.

What is the position of E with respect to C?

(a) Immediate right
(b) Second to the right
(c) Immediate left
(d) Second to the left

Q36. IRIG is related to OXOM in a certain way based on the English alphabetical order. In the same way, DLEC is related to JRKI. To which of the following is SBUS related, following the same logic?

(a) YHAY
(b) YHYA
(c) AYHY
(d) AYYH

Q37. What should come in place of the question mark (?) in the following series based on the English alphabetical order?

EVD, ITH ,MRL ,QPP, ?

(a) UMT
(b) UNT
(c) UNS
(d) UMS

Q38. Seven friends, A, B, C, D, E, F and G, are sitting around a table, facing the centre (but not necessarily in the same order). B is to the immediate right of F, and A is to the immediate right of B. E is an immediate neighbour of both F and D, while G is an immediate neighbour of both D and C.

Who is sitting to the immediate right of A?

(a) B
(b) E

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(c) D
(d) C

Q39. In a certain code language, 'FIRE' is coded as '9571' and 'ROAD' is coded as '2146'. What is the code for 'R' in the given code language?
(a) 1
(b) 7
(c) 6
(d) 2

Q40. What will come in the place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?
16 ÷ 4 + 18 − 14 × 7 = ?
(a) 52
(b) 62
(c) 48
(d) 65

SESSION 2

Q41. What is the specific field of study focused on examining extinct animals?
(a) Gerontology
(b) Economic geology
(c) Paleontology
(d) Glaciology

Q42. In which of the following years was India the host of Women's T20 World Cup Cricket?
(a) 2016
(b) 2012
(c) 2014
(d) 2010

Q43. The All-India Kisan Sabha was founded in Lucknow in April _____ with Swami Sahjanand Saraswati as the president.
(a) 1936
(b) 1934
(c) 1935
(d) 1937

Q44. Match the columns:

Plant Group (A)	Example (B)
i. Bryophyta	a. Rose
ii. Pteridophyta	b. Pine
iii. Gymnosperms	c. Mosses
iv. Angiosperms	d. Selaginella

(a) i-c, ii-a, iii-b, iv-d
(b) i-c, ii-d, iii-b, iv-a
(c) i-c, ii-d, iii-a, iv-b
(d) i-d, ii-c, iii-b, iv-a

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Q45. As per the Periodic Labour Force data 2023, which of the following states recorded the highest unemployment rate in urban areas for the age group 15 years and above?

(a) Chhattisgarh
(b) Himachal Pradesh
(c) Rajasthan
(d) Kerala

Q46. The Sun Temple at Konark, the Khajuraho Temple in Madhya Pradesh and the recently constructed Ram Temple in Ayodhya are examples of temples designed in which style of temple architecture?

(a) Nagara
(b) Vesara
(c) Hoysala
(d) Dravida

Q47. Which of the following leaders died after being hit by sticks while protesting against the Simon Commission?

(a) Chandra Shekhar Azad
(b) Bal Gangadhar Tilak
(c) Bhagat Singh
(d) Lala Lajpat Rai

Q48. NISHTHA stands for _____

(a) National Initiative for School Heads' and Teachers' Holistic Assessment
(b) National Inauguration for School Heads' and Teachers' Holistic Advancement
(c) National Initiative for School Heads' and Teachers' Holistic Advancement
(d) National Inauguration for School Heads' and Teachers' Holistic Assessment

Q49. Under which of the following Articles is Right to Equality mentioned?

(a) Articles 14-18
(b) Articles 1-4
(c) Articles 10-12
(d) Articles 19-22

Q50. Who among the following appoints the Acting Chief Justice in the absence of the Chief Justice of India?

(a) President
(b) Senior most Judge of the Supreme Court
(c) Prime Minister
(d) Council of Ministers

Q51. The condition when the amount of dissolved oxygen in a water body is alarmingly decreased is called:

(a) hypothermia
(b) anoxia
(c) hypoxia
(d) acidification

Q52. Which among the following data was used to compute the estimates in the national Multidimensional Poverty Index (MPI) Baseline Report?

(a) Economic Survey data
(b) National Census data
(c) Annual Employment/Unemployment Survey data
(d) National Family Health Survey (NFHS-4)

Q53. In Union Budget 2023-24, an aspirational Blocks Programme covering how many blocks has been launched?

(a) 300
(b) 250
(c) 450

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(d) 500

Q54. Padma Shri awardee (2023) Guru K Kalyanasundaram Pillai is an exponent of which of the following classical dance genres?

(a) Sattriya
(b) Kathak
(c) Kathakali
(d) Bharatnatyam

Q55. A famous hill station 'Ranikhet' is located on which mountain?

(a) Eastern Ghats
(b) Himalaya
(c) Western Ghats
(d) Aravali

Q56. In badminton, how high above the ground is the net positioned at the edges?

(a) 5.1 feet
(b) 5.3 feet
(c) 5.2 feet
(d) 5.4 feet

Q57. 'Running for My Life: One Lost Boy's Journey from the Killing Fields of Sudan to the Olympic Games' an autobiography depicting the struggle for life to success in life is written by who among the following personalities?

(a) Noah Lyles
(b) Jesse Owens
(c) Lopez Lomong
(d) Arnold Palmer

Q58. Vangpui Kut festival is organised for _____ days in Mizoram to celebrate the glory of Mizo culture and traditions.

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

Q59. Which of the following represents the chemical formula for sulphur hexafluoride?

(a) S_2F_6
(b) SF_6
(c) SF_2
(d) S_6F

Q60. Which type of tea in large amount is exported from India to importing countries?

(a) Herbal tea
(b) Regular tea
(c) Green tea
(d) Black tea

Q61. The founder of Bahmani kingdom who assumed the title of 'Alauddin Hasan Bahman Shah' was _____.

(a) Hasan Gangu
(b) Feroz Shah Bahmani
(c) Muhammad Shah
(d) Ahmad Shah

Q62. Who among the following musicians was a member of Navratnas of Akbar?

(a) Nizamuddin Auliya
(b) Muboli Khan
(c) Tansen

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(d) Amir Khusrao

Q63. Kudumbashree is a poverty eradication and women empowerment programme. In which state of India does this programme operate?

(a) Tamil Nadu
(b) Andhra Pradesh
(c) Kerala
(d) Karnataka

Q64. Which Indian classical dance form has composition in Meitei language?

(a) Sattriya
(b) Chhau
(c) Manipuri
(d) Bharatanatyam

Q65. Which of the following statements is/are true about the Iron Age?

1. The establishment of large cities took place on the basis of sizeable surplus.
2. The ceramic associated with this age was Painted Grey Ware.
3. The Indus Valley Civilization flourished during the Iron Age

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

Q66. Select the most appropriate option that can substitute the underlined words in the given sentence.

By definition, making a pictogram is to present and visualise data.

(a) To make a pictogram by definition
(b) Pictogram is making a definition
(c) In making a pictogram, the definition
(d) The purpose of a pictogram

Q67. Select the correct spelling of the underlined word in the given sentence.

The principaul of the college announced his early retirement today.

(a) princepal
(b) principel
(c) princle
(d) principal

Q68. Parts of the following sentence have been given as options. Select the option that contains an error.

It was an interesting chat with an European gymnast that changed my mindset towards the sport.

(a) an European gymnast that changed
(b) It was an interesting
(c) my mindset towards the sport
(d) chat with

Q69. Select the most appropriate degree of comparison to fill in the blank.

Hunny is _____ person in his family.

(a) more taller
(b) tall
(c) taller
(d) the tallest

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Q70. If someone mentions that 'the ball is in your court', what does this idiom imply?

(a) It's time for a break.
(b) It's your turn to make a decision or take action.
(c) It's time to play a sport.
(d) It's a reference to tennis.

Q71. Select the most appropriate ANTONYM of the given word.

Harmony

(a) Discord
(b) Accord
(c) Unity
(d) Concord

Q72. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I have been / looking by / my / cream sweater for / a few weeks now.

(a) a few weeks now
(b) cream sweater for
(c) I have been
(d) looking by my

Q73. Select the most appropriate option to fill in the blank.

She _____ to be understood by the society.

(a) chased
(b) hunted
(c) sought
(d) looked

Q74. Select the INCORRECTLY spelt word.

(a) tangible
(b) navigate
(c) lascivious
(d) rhetericol

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

Rain cats and dogs

(a) Doing something pointless
(b) Very rarely
(c) Do something unplanned
(d) Raining heavily

Q76. Select the most appropriate form of comparative degree that can substitute the underlined segment in the given sentence.

Food prices in Switzerland are as expensive to the rest of Western Europe.

(a) the most expensive than
(b) more expensive than
(c) as expensive to
(d) more expensive to

Q77. Select the most appropriate option to fill in the blank.

The speaker requested the audience to pay _____.

(a) ears
(b) attention
(c) silence
(d) alertness

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Q78. Which of the following options is similar in meaning to the given word?

Pensive

(a) Troubled
(b) Talkative
(c) Thoughtful
(d) Tired

Q79. Select the most appropriate option to fill in the blank.

The council never _____ the new complex to be constructed, nor did local residents.

(a) occurred
(b) refreshed
(c) wanted
(d) liked

Q80. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

How long / have you / been learn / English now?

(a) been learn
(b) How long
(c) have you
(d) English now

Q81. Select the most appropriate ANTONYM of the highlighted word in the given sentence.

The negotiations were conducted in an amicable atmosphere, leading to a peaceful resolution.

(a) Agreeable
(b) Serene
(c) Cordial
(d) Hostile

Q82. Select the most appropriate ANTONYM of the underlined word in the given sentence.

Overfishing and destructive fishing practices threaten the sustainability of marine resources and ecosystems.

(a) Indefensibility
(b) Equanimity
(c) Reasonableness
(d) Justifiability

Q83. Select the most appropriate meaning of the underlined word in the given sentence.

A conscious understanding of the environmental issues can bring positive changes in human life.

(a) Mechanical
(b) Reflex
(c) Mindful
(d) Beware

Q84. Rectify the error in the given sentence by selecting the correct spelling from the options provided.

The chord of my voilin is not tuned properly.

(a) violin
(b) voilen
(c) woilin
(d) wiolin

Q85. Select the correct option of the given sentence.

Vishnu is the more courageous than all other boys in the class.

(a) Vishnu is much more courageous than all other boys in the class.
(b) Vishnu is most courageous than all other boys in the class.
(c) Vishnu is the most courageous than all other boys in the class.

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(d) Vishnu is more courageous than all other boys in the class.

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 ship struck the iceberg (1) ___ its side while it was still moving forward. In a few (2)_, six great holes were made in the steel. Water rushed in, not in one place, but in separate places covering the Titanic hundred feet. The steel doors were therefore (3)_. Captain Smith soon understood that (4)__ could save the ship. He ordered the wireless officer to send out the ship's position and the letters CQD, which is the call for help. It told the world that the Titanic was (5)___.

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

(a) under
(b) above
(c) beyond
(d) with

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

(a) weeks
(b) days
(c) moments
(d) years

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

(a) painted
(b) useless
(c) burnt
(d) complete

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

(a) enemies
(b) all
(c) nothing
(d) everything

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

(a) victorious
(b) reaching
(c) sinking
(d) floating

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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