SSC MTS 2024 Official Paper (Held On: 21 Oct, 2024 Shift 3) (Previous Year Paper)

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

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SESSION 1

Q1. Rohit made a profit of 22% when he sold a jacket for Rs. 7,930. Find the cost price of the jacket.

(a) Rs. 6,500
(b) Rs. 7,500
(c) Rs. 7,000
(d) Rs. 6,000

Q2. 15 kg of superior quality of wheat is mixed with 5 kg of inferior quality of wheat. The price of superior quality and inferior quality wheat is Rs. 80 and Rs. 60, respectively. Find the average price per kg of the mixture.

(a) Rs. 70
(b) Rs. 65
(c) Rs. 150
(d) Rs. 75

Q3. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 3% per year rate of interest for 3 years.

(a) 230
(b) 310
(c) 270
(d) 210

Q4. A cylindrical vessel of height 14 cm has outer and inner radii 14 cm and 10 cm, respectively. It is to be filled by transferring water in it by using a small cylinder of height 7 cm and outer and inner radii 7 cm and 5 cm, respectively. What will be the unfilled height of the big vessel after transferring water 6 times by using the smaller cylinder? (Use $\pi = 22/7$)

(a) 2.2 cm
(b) 3.5 cm
(c) 2.9 cm
(d) 3.8 cm

Q5. The average age of a husband and wife, and their child 3 years ago, was 27 years, and that of the wife and the child 5 years ago was 20 years. The present age of the husband is:

(a) 35 years
(b) 45 years
(c) 50 years
(d) 40 years

Q6. Find the LCM of 8, 12, 18, 24 and 36.

(a) 64
(b) 27
(c) 72
(d) 36

Q7. Akshay wants to buy a 6 m wide cloth to make a conical tent having a radius of 12 m and height of 35 m. How many metres of cloth does he need to buy? Take π = 22/7 Note: Round off the decimals to the nearest whole number.

(a) 234
(b) 239
(c) 233
(d) 231

Q8. The average age of a class of 39 students is 15 years. If the age of the teacher be included, then the average increases by 3 months. Find the age of the teacher.

(a) 26 years
(b) 27 years
(c) 24 years
(d) 25 years

Q9. The sum of length and breadth of a rectangle is 68 m and the ratio of length and breadth is 11:23. What is the area of the rectangle (in m^2)?

(a) 976
(b) 1331
(c) 253
(d) 1012

Q10. What is the single equivalent price increase for two successive price increases of 12% and 18% on an article?

(a) 32.16%
(b) 15%
(c) 30.24%
(d) 30%

Q11. Divyansh invested 1/4 of his capital at 10%, 1/5 at 20% and the remaining at 30% simple interest per annum, respectively. If his annual income isRs. 3,220, then find the capital (inRs.).

(a) 13,500
(b) 17,000
(c) 15,300
(d) 14,000

Q12. Geeta went to her home town at a distance of 270 km from her house. She started her journey at 10:00 a.m. and reached the destination at 02:00 p.m. by travelling 20 km by cab at a speed of 60 km/h and 240 km by train running at a speed of 80 km/h. She covered the remaining distance by an auto to reach her place. What was the speed of the auto?

(a) 15 km/h
(b) 4 km/h
(c) 20 km/h
(d) 18 km/h

Q13. If p is directly proportional to q and is p = 7 when q = 6, then what is the value of p when q = 21?

(a) 24.0
(b) 24.5
(c) 23.5
(d) 25.0

Q14. The average age of 40 students in a class is 12 years. The average age of the students increased by 4 months due to 20 new admissions in the class. The average age of the newly admitted students is:

(a) 14 years 6 months
(b) 14 years
(c) 13 years 4 months
(d) 13 years

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Q15. On a 200-m-long circular track, two people start from the same point, at the same time, at speeds of 12 km/h and 15 km/h, respectively. After how much time will they meet again for the first time if they are running in the same direction?

(a) 180 seconds
(b) 200 seconds
(c) 240 seconds
(d) 220 seconds

Q16. Maria buys a dress for Rs. 3,000. She could not decide between a discount of 35% and three successive discounts of 20%, 10% and 5%. The difference between both discounts (in Rs.) is:

(a) 20
(b) 68
(c) 0
(d) 102

Q17. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 3% per year rate of interest for 4 years.

(a) 240
(b) 340
(c) 300
(d) 260

Q18. The following table shows the production of different types of water bottles (in thousands) in different years.

Water Bottle Type/ Year	2009	2010	2011	2012	2013
A	896	636	587	473	576
B	573	753	637	560	884
C	678	287	586	780	966

The production of which type of water bottles was highest in the year 2012?

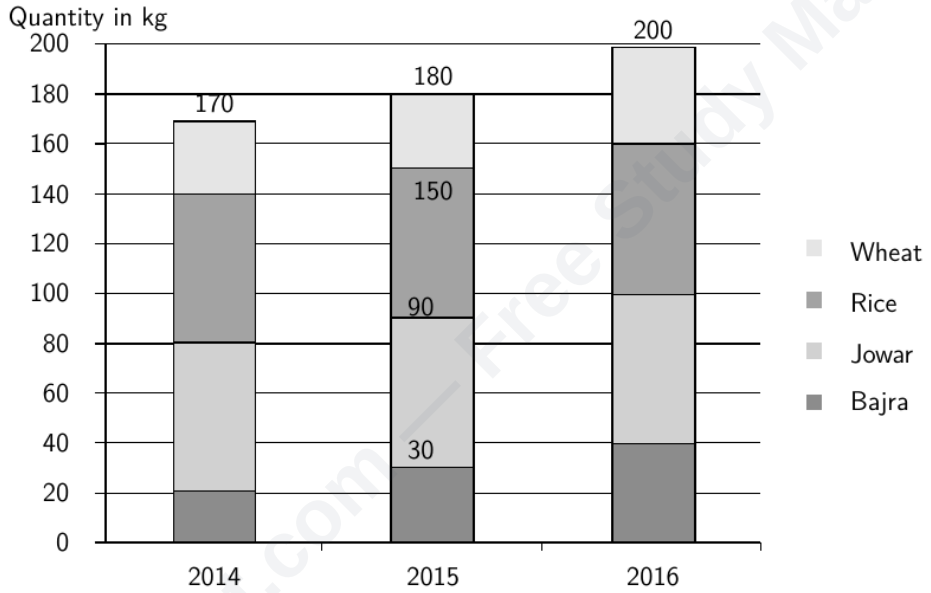
(a) A
(b) Both B and C
(c) B
(d) C

Q19. Shikha sells a bookshelf to Vansh at a loss of 5%, Vansh sells the same bookshelf to Swarnima at a profit of 10%, and Swarnima sells the same bookshelf to Nikhil at a loss of 20%. If Nikhil purchased the bookshelf for Rs. 16,720, then what was the cost (in Rs.) of the bookshelf for Shikha?

(a) 18,000
(b) 19,500
(c) 21,500
(d) 20,000

Q20. The following bar graph represents the quantity of grains produced in a state in the years 2014, 2015 and 2016. Study the graph and answer the question that follows.

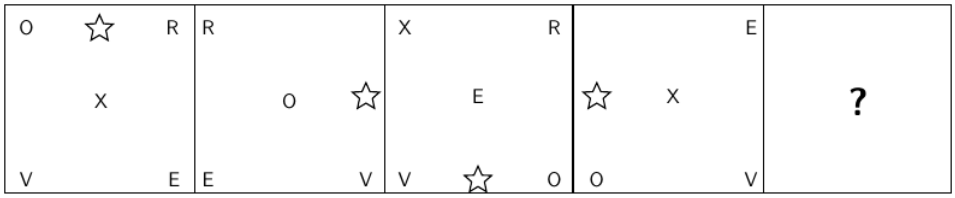
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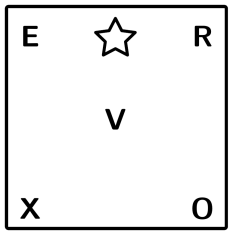
What is the difference in the percentage of wheat production in the year 2014 to the percentage of wheat production in the year 2016? (Round up to two decimal place

(a) 2.35%
(b) 1.92%
(c) 3.45%
(d) 4.23%

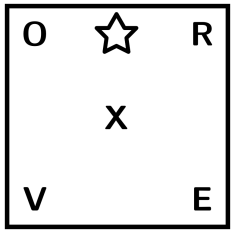
Q21. Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.



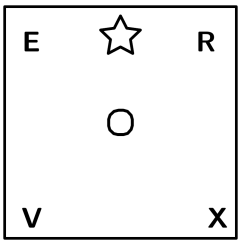
(a)



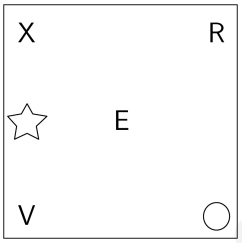
(b)



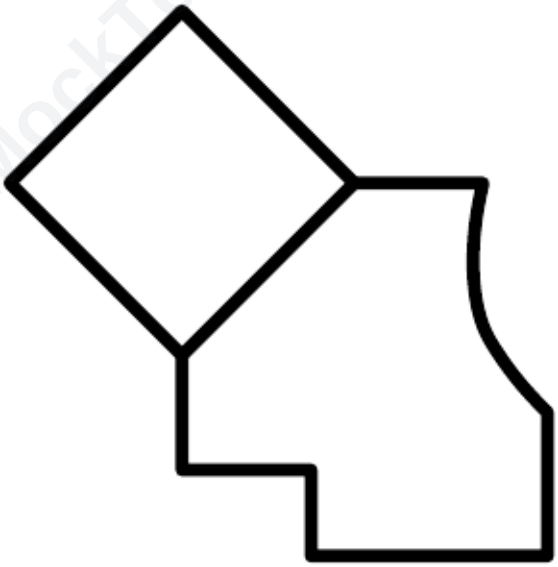
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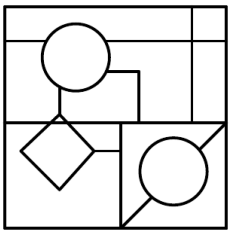
(d)



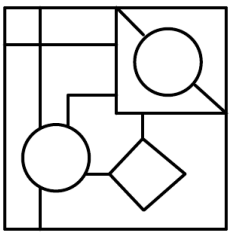
Q22. Select the option in which the given figure is embedded (rotation is NOT allowed).



(a)

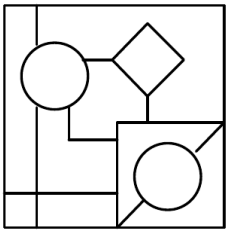


(b)

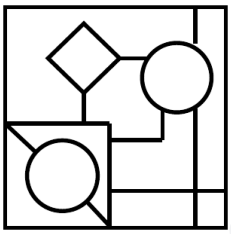


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(c)



(d)



Q23. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

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

(12, 77, 5)

(21, 87, 3)

(a) (17, 401, 9)

(b) (11, 188, 6)

(c) (15, 127, 7)

(d) (12, 197, 3)

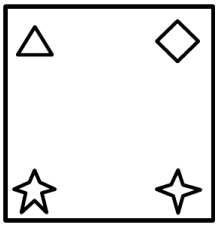
Q24. Select the figure from the given options, which when put in place of the question mark (?) will logically complete the series.



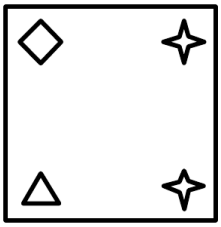
(a)



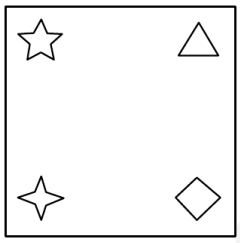
(b)



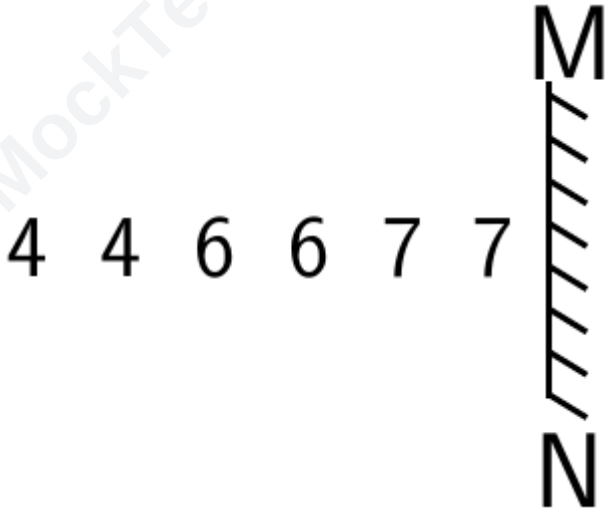
(c)



(d)



Q25. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



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Q26. In a certain code language, ‘they are smart’ is written as ‘bt mt rt’ and ‘she is smart’ is written as ‘rt kt st’. How is ‘smart’ written in the given code language?

(a) mt
(b) rt
(c) kt
(d) st

Q27. BEAR is related to YBXO in a certain way based on the English alphabetical order. In the same way, WATCH is related to TXQZE. To which of the following is LOTUS related, following the same logic?

(a) IJQQP
(b) IKQRP
(c) ILQRP
(d) IJRRP

Q28. 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 bongos are sitars.

No cymbal is a sitar.

Conclusions:

[1] All sitars are bongos.

[2] Some bongos are cymbals.

(a) Both conclusions [1] and [2] follow
(b) Only conclusion [1] follows
(c) Neither conclusion [1] nor [2] follows
(d) Only conclusion [2] follows

Q29. Seven people R, S, T, D, E, F and G are sitting around a circular table, facing the centre (but not necessarily in the same order). G is sitting second to the right of E. Only one person is sitting between G and R. Only one person is sitting between R and T. F is sitting second to the left of D. D is an immediate neighbour of T. How many people are sitting between S and T when counted from the left of S?

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

Q30. 12 is related to 61 following a certain logic. Following the same logic, 15 is related to 76. To which of the following is 16 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) 88
(b) 81
(c) 84
(d) 86

Q31. In a certain code language, ‘JOKE’ is coded as ‘NIOY’ and ‘TRICKY’ is coded as ‘XLMWOS’. What is the code for ‘SPEAKERS’ in the given code language?

(a) WIJUOYVM
(b) WJHUOYVM
(c) WJIUOYVM
(d) WJIUOYUM

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Q32. In a certain code language, 253 stands for 'chairs are old', 378 stands for 'make good chairs' and 546 stands for 'lady is old'. Which of the following stands for 'are' in the same code language?

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

Q33. What will come in the place of '?' in the following equation, if '−' and '×' are interchanged and '+' and '÷' are interchanged?

28 ÷ 18 + 6 × 6 - 4 = ?

(a) 7
(b) 17
(c) 9
(d) 14

Q34. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

GKS, MQY, SWE, YCK, ?

(a) EIO
(b) EQW
(c) EWR
(d) EIQ

Q35. Which two signs should be interchanged to make the given equation correct?

45 - 33 ÷ 3 × 4 + 67 = 22

(a) ÷ and ×
(b) − and +
(c) − and ×
(d) • and ×

Q36. QFRG is related to NCVK in a certain way based on the English alphabetical order. In the same way, KZZO is related to HWDS. To which of the following is ETHW related, following the same logic?

(a) APLZ
(b) BQLA
(c) BPMZ
(d) CRKB

Q37. Read the given statement(s) 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:

All crocs are frogs.

All crocs are turtles.

Conclusions:

(i) All turtles are frogs.

(ii) At least some frogs are crocs.

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

25000, 5000, 1000, 200, 40, ?

(a) 16
(b) 8

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(c) 12
(d) 20

Q39. 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). E is sitting second to the left of C. C is an immediate neighbour of both A and B. F is sitting third to the right of A. How many people are sitting between D and C when counted from the left of D?

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

Q40. In a certain code language, 'win his heart' is written as 'mt pq zr' and 'you will win' is written as 'zr ht gc'. How is 'win' written in the given language?

(a) zr
(b) gc
(c) pq
(d) ht

SESSION 2

Q41. Which of the following raw materials is NOT used to prepare the baking soda?

(a) H2O
(b) Na2CO3
(c) NaCl
(d) NH3

Q42. In the South Indian temples, the pyramidal tower is called the _____.

(a) vahan
(b) mandapa
(c) vimana
(d) shikhara

Q43. What is the duration for which a member of a House of Legislature of a State is, without permission of the House, absent from all meetings, thereof the house may declare his seat vacant?

(a) 180 days
(b) 90 days
(c) 30 days
(d) 60 days

Q44. Who among the following was the famous ruler of the Gauda Kingdom?

(a) Grahavarman
(b) Rajyavardhan
(c) Shashanka
(d) Rudradaman

Q45. What is the main purpose of the office of the Comptroller and Auditor General (CAG)?

(a) Regulating tax collection
(b) Investigating and reporting on financial transactions
(c) Formulating the national budget
(d) Enforcing government policies

Q46. Eutrophication is a condition where excessive growth of algal bloom occurs on the surface of a water body because of abundant nutrients. Which of the following are the key nutrients for eutrophication?

(a) Phosphorus and iron
(b) Nitrogen and potassium

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(c) Phosphorus and nitrogen
(d) Iron and nitrogen

Q47. Select the INCORRECT statement from the following.
(a) The development of the cotton textile industry in Britain led to the decline of Indian textile producers.
(b) Cotton clothes made in England had driven Indian clothes out of the markets of Europe and America in the beginning of the 20th century.
(c) The Sale and Devang communities of South India were famous for weaving.
(d) The first cotton textile mill in India was established in Bombay in 1854.

Q48. The famous Jain temple of Dilwara, built by Solanki rulers, is located at which place?
(a) Mount Abu
(b) Ajmer
(c) Jaipur
(d) Surat

Q49. In December 2023, which former Tata Consultancy Services (TCS) CEO and MD joined the Indian Institute of Technology Bombay (IIT Bombay) as Head of Translational Research and Entrepreneurship?
(a) Subramaniam Ramadorai
(b) Natarajan Chandrasekaran
(c) Rajesh Gopinathan
(d) FC Kohli

Q50. 'Dollu Kunitha' is primarily a folk dance of which of the following Indian states?
(a) Goa
(b) Kerala
(c) Tamil Nadu
(d) Karnataka

Q51. Who among the following was the first President of Indian National congress?
(a) Dadabhai Naoroji
(b) Womesh Chandra Banerjee
(c) George Yule
(d) Badruddin Tyabji

Q52. Which of the following States/Union Territories is included in the 'Areas of Inadequate Rainfall' of India?
(a) Andaman and Nicobar Islands
(b) Haryana
(c) Ladakh
(d) Meghalaya

Q53. In the year 2010, Commonwealth Games was hosted by which of the following countries?
(a) Canada
(b) Australia
(c) England
(d) India

Q54. Which of the following countries hosted the ACC Under-19 Asia Cup cricket in the year 2023?
(a) Pakistan
(b) UAE
(c) India
(d) Sri Lanka

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Q55. According to the census of India 2011, which of the following states has the highest percentage of rural population?

(a) Assam
(b) West Bengal
(c) Uttar Pradesh
(d) Bihar
(e) Himachal Pradesh

Q56. Coimbatore, which is located in the state of _____, is famous for the cotton textile industry.

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

Q57. The Parliamentary form of Government is a key feature given in the Indian Constitution and its provisions are detailed in Articles _____ of Part V (Chapter II).

(a) 124 to 168
(b) 211 to 236
(c) 170 to 203
(d) 79 to 122

Q58. Hampi Utsava is a colourful cultural festival that emulates the ethos and grandeur of which of the following empires?

(a) Chalukya
(b) Vijayanagara
(c) Kadamba
(d) Satavahana

Q59. In June 2023, which state Government launched a project named ‘Pride’ to provide employment opportunities to the transgender community in diverse and innovative sectors?

(a) Rajasthan
(b) Goa
(c) Sikkim
(d) Kerala

Q60. Which of the following is a molecular compound?

(a) CaO
(b) CO_2
(c) NaCl
(d) $MgSO_4$

Q61. In India, documented by a study, in which level of education is the majority of the population unemployed?

(a) Primary school
(b) Graduate and post-graduate
(c) Middle school
(d) Matriculates

Q62. Mangalampalli Balamuralikrishna was an Indian Carnatic singer born in Sankaraguptam village of which state?

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

Q63. Which of the following are edible polysaccharides?

(a) Methyl cellulose, chitin and actin
(b) Sucrose, glucose and cellulose
(c) Cellulose, chitin and myosin

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(d) Starch, alginates, pectins and chitosans

Q64. Who among the following is the author of the book 'The Hungry Tide'?

(a) Ruskin Bond
(b) RK Narayan
(c) Mulk Raj Anand
(d) Amitav Ghosh

Q65. Odissi dancer _____ was awarded the Sangeet Natak Akademi Award 2022 in the dance category.

(a) Shubhada Varadkar
(b) Niranjan Rout
(c) Kumkum Mohanty
(d) Debi Vasu

Q66. Select the most appropriate meaning of the given idiom:

'Hold someone's feet to the fire'

(a) Agree upon a shared venture with full conviction
(b) Take big risks without knowing the consequences
(c) Think over a new proposal
(d) Insist that someone fulfill their promises or obligations

Q67. Select the INCORRECTLY spelt word.

(a) Affiliate
(b) Affliction
(c) Anxious
(d) Apraisal

Q68. Select the option that can be used as a one-word substitute for the highlighted group of words in the given sentence.

The practice of having two or more spouses at the same time was quite common in the olden days.

(a) Patricide
(b) Patriarchy
(c) Polygamy
(d) Parochialism

Q69. In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative.

It is easiest to stay calm than to protest.

(a) more easier
(b) the easier
(c) easy
(d) easier

Q70. Select the most appropriate option to fill in the blank.

Active community involvement _____ a sense of belonging and contributes to the overall well-being of society.

(a) collects
(b) forgets
(c) fails
(d) fosters

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

I haven’t seen him _____ last week.

(a) since
(b) to
(c) for
(d) beyond

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Q72. Select the most appropriate ANTONYM of the underlined word in the given sentence.

The mellow tune of the flute soothes me.

(a) quiet
(b) harsh
(c) golden
(d) lyrical

Q73. The given sentence has an error. Select the option that correctly rectifies the error.

India is not on war with Pakistan.

(a) at Pakistan
(b) for Pakistan
(c) not at
(d) not of

Q74. Select the option that rectifies the spelling of the underlined word in the given sentence.

A hospital's hyqine is the standard against which cleanliness is measured.

(a) hygiene
(b) hygene
(c) higenie
(d) hygeine

Q75. Select the most appropriate ANTONYM of the given word.

Sloppy

(a) Untidy
(b) Humid
(c) Dashing
(d) Rough

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

Some types of _____ suck blood.

(a) leach
(b) latch
(c) leech
(d) leak

Q77. The following sentence has been divided into four segments. Identify the segment that has a grammatical error.

He will have to / knuckle up really seriously, / if he wants to / crack the upcoming deal.

(a) crack the upcoming deal.
(b) He will have to
(c) knuckle up really seriously
(d) if he wants to

Q78. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

This boy performed / extremely good / in the / dance competition.

(a) in the
(b) dance competition
(c) extremely good
(d) This boy performed

Q79. Select the correct spelling of the underlined word in the given sentence.

The miracle of resurection is not medically proven.

(a) ressurection
(b) resurrection
(c) resurrecion

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(d) resurection

Q80. Select the most appropriate ANTONYM for the underlined word in the given sentence.

Such specifications have revived our designers and manufacturers, whereas this new arrangement will free them.

(a) restrain
(b) senior
(c) swatted
(d) productive

Q81. Parts of the following sentence have been given as options. Select the option that contains an error.

Nagamani, a brave student, lodged a F.I.R. against the criminal.

(a) a F.I.R.
(b) student, lodged
(c) against the criminal
(d) Nagamani, a brave

Q82. Select the most appropriate ANTONYM of the given word.

Disposed

(a) Minded
(b) Retained
(c) Detained
(d) Pretended

Q83. Select the option that can be used as a one-word substitute for the highlighted group of words in the given sentence.

We had to study a poem of lamentation, especially for the dead, written by Thomas Gray.

(a) an essay
(b) a report
(c) an elegy
(d) an account

Q84. Parts of the following sentence have been given as options. Select the option that contains an error.

The team with a high motivation level succeeded in its project despite of the challenges it faced.

(a) The team with
(b) a high motivation level
(c) despite of the challenges it faced.
(d) succeeded in its project

Q85. Select the most appropriate idiom that can complete the given sentence.

Recent research says that most of our cottage industries lack finance. Thus, they are _____.

(a) taking somebody for a ride
(b) thrown out of gear
(c) worn and torn
(d) under a cloud

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.

Throughout human history, there have been numerous, strange and unexplainable events that have occurred on our (1)_____. From

mysterious disappearances to bizarre natural phenomena, these (2)_____ continue to captivate our imagination and spark curiosity.

On 30 June 1908, a massive explosion (3)____ in the remote Tunguska region of Siberia. The (4)___ of the explosion is still

debated, but it is believed to have been caused by a meteor or comet. Another fascinating phenomenon, the Bermuda Triangle is

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a

region in the western part of the North Atlantic Ocean where ships and planes have mysteriously (5)_____.

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

(a) home
(b) planet
(c) country
(d) neighbourhood

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

(a) changes
(b) events
(c) advent
(d) adventures

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

(a) conspired
(b) came about
(c) appeared
(d) took place

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

(a) commencement
(b) stages
(c) cause
(d) beginning

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

(a) invisible
(b) disappeared
(c) besotted
(d) concealed

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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