SSC MTS 2024 Official Paper (Held On: 23 Oct, 2024 Shift 2) (Previous Year Paper)

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

Take this paper as a timed mock test

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

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SESSION 1

Q1. If the average of the first 15 multiples of 9 is x, then x is:

(a) 72
(b) 68
(c) 114
(d) 78

Q2. Reena buys an iron for Rs. 900 and sells it at a loss of 12%. What is the selling price of the iron?

(a) Rs. 763
(b) Rs. 658
(c) Rs. 825
(d) Rs. 792

Q3. Find the simple interest (in Rs.) on Rs. 2000 as a sum borrowed at 9% per year rate of interest for 4 years.

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

Q4. The price of an article is reduced by 40% and its sale is increased by 80%. Find the net effect on revenue.

(a) 8% increase
(b) 10% increase
(c) 10% decrease
(d) 8% decrease

Q5. The expenses of painting the inner curved surface of a cylindrical vessel 20 m deep is Rs. 4,400. If the painting rate is Rs. 40 per m^2, find the total surface area (in m^2) of the vessel correct to two places of decimals. (Used π = frac227)

(a) 116.81 m^2
(b) 117.81 m^2
(c) 114.81 m^2
(d) 115.81 m^2

Q6. A student saves an average of Rs. 4,000 per month for the first three months. How much should be saved (in Rs.) on an average per month over the next 9 months to average Rs. 4,375 per month over the whole year?

(a) 4000
(b) 4500
(c) 4200
(d) 4187.5

Q7. A hemispherical bowl is made of 1 cm thick copper. The inner radius of the bowl is 6 cm. Find the cost to paint the outer curved surface area of the bowl, if the paint cost is Rs. 2 per cm^2. (Use π = frac227)

(a) Rs.616
(b) Rs.552
(c) Rs.586
(d) Rs.604

Q8. Find the gain percentage, given that Nidhi sold her scooter for Rs. 80442 gaining 1/6th of the selling price.

(a) 20%
(b) 16%
(c) 35%
(d) 10%

Q9. If the HCF of 156 and 36 is expressible in the form of 156 × 12 + 96A, then the value of A is:

(a) −19.735
(b) 19.735
(c) −19.375
(d) 19.375

Q10. The given table shows the number of employees in three organisations during three years.

Year / Organisation	2015	2016	2017
L	1421	1230	1652
M	1459	1825	1740
N	1620	1125	1235

What is the respective ratio between the total number of employees in organisations L and M together in 2015, and the total number of employees in organisations M and N together in 2017?

(a) 376 : 295
(b) 576 : 595
(c) 295 : 376
(d) 595 : 576

Q11. What will be the ratio of simple interest earned by a certain amount at the same rate of interest for 12 years and that for 15 years?

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

Q12. A metallic sphere with a radius of 35 cm is melted and subsequently transformed into several small solid cones, each having a diameter of 14 cm and a height of 4 cm. How many cones are formed as a result of this process?

(a) 825
(b) 875
(c) 900
(d) 850

Q13. The speed of a car is 81 km/hr. The distance covered by the car in 24 seconds is:

(a) 540 m
(b) 560 m
(c) 270 m
(d) 280 m

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Q14. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 8% per year rate of interest for 2 years.

(a) 420
(b) 480
(c) 520
(d) 440

Q15. The price ratio of wheat to rice is 9:11, and the household consumption ratio is 11:13. What is the ratio of expenses related to rice and wheat?

(a) 13 : 9
(b) 9 : 13
(c) 7 : 13
(d) 13 : 7

Q16. The speed of a boat in still water is 12 km/h and the stream flows at a speed of 3 km/h. The distance travelled in the boat downstream in 24 minutes is:

(a) 6 km
(b) 4 km
(c) 5 km
(d) 7 km

Q17. The given bar graph shows the imports and exports (in Rs. crores) of steel of a country during the years 2013 to 2017.



What is the percentage of the total imports for the years 2013, 2015 and 2017 to the exports for all the years taken together (correct to one decimal place)?

(a) 54.7%
(b) 51.6%
(c) 53.8%
(d) 52.4%

Q18. A shopkeeper offered following four different discount schemes for buyers on an item.

A. Two successive discounts of 8%

B. A discount of 11% followed by a discount of 5%.

C. Successive discounts of 13% and 3%

D. A discount of 16%.

If Rajiv wants to purchase the item from this shop at minimum price, he should opt for the discount scheme:

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

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Q19. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 66 kg and 36 kg is:

(a) 49.4
(b) 50.4
(c) 48.4
(d) 51.4

Q20. A jar contains a mixture with 45% syrup. A portion of this mixture is replaced by another mixture containing 30% syrup. The new mixture is found to have 34% syrup. What is the ratio in which these mixtures should be mixed to obtain the new mixture?

(a) 7 : 10
(b) 5 : 13
(c) 3 : 14
(d) 4 : 11

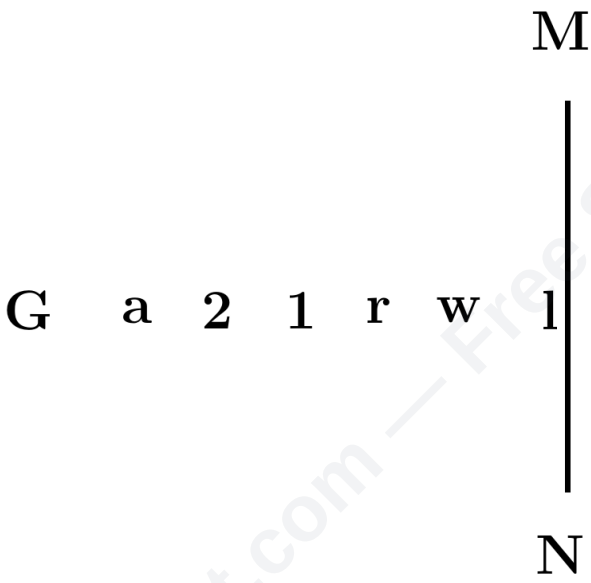
Q21. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

JLF, KOL, LRL, MUO, ?

(a) MXT
(b) OYR
(c) NRY
(d) NXR

Q22. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

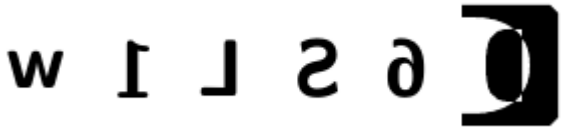




(a)



(b)



(c)



(d)



Q23. In a certain code language, ‘BUYS’ is coded as ‘5173’ and ‘YOLK’ is coded as ‘6458’.What is the code for ‘Y’ in the given code language?

(a) 5
(b) 8
(c) 6
(d) 7

Q24. What should come in place of the question mark (?) in the given series?

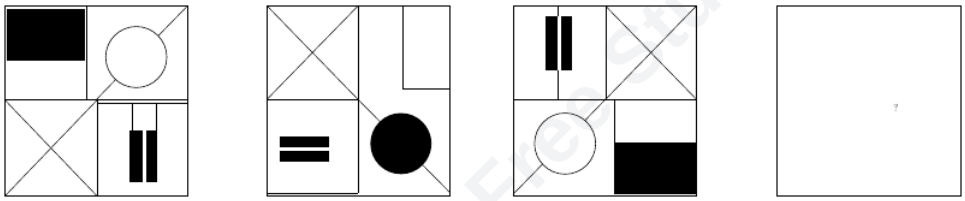
13 21 33 49 ? 93

(a) 74
(b) 69

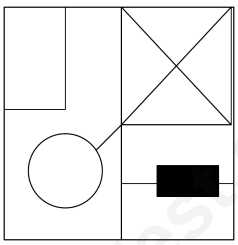
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(c) 82
(d) 79

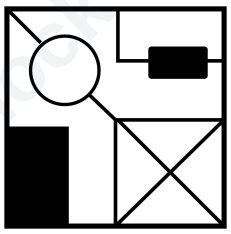
Q25. Identify the figure given in the options that when put in place of the question mark (?) will logically complete the series.



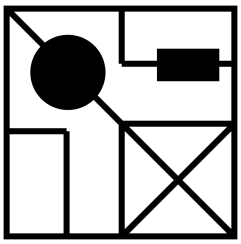
(a)



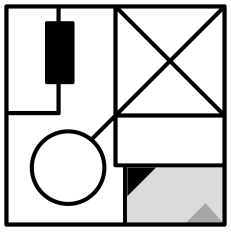
(b)



(c)



(d)



Q26. Which two signs should be interchanged to make the following equation correct?

14 + 18 - 6 × 15 ÷ 24 = 35

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

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Q27. JA 88 is related to OF 77 in a certain way. In the same way, DT 55 is related to IY 44.To which of the following is LH 33 related following the same logic?

(a) XD 77
(b) QM 22
(c) NU 25
(d) OS 22

Q28. Six students Amit, Shivam, Dinesh, Kamlesh, Nihar and Roshan are sitting around a circular table, facing the centre (but not necessarily in the same order). Amit is sitting to the immediate right of Shivam. Dinesh is sitting second to the right of Shivam. Nihar is an immediate neighbour of both Dinesh and Roshan. Who is sitting to the immediate right of Roshan?

(a) Nihar
(b) Shivam
(c) Amit
(d) Kamlesh

Q29. PUQV is related to RWSX in a certain way based on the English alphabetical order. In the same way, JOKP is related to LQMR. To which of the following is MRNS related, following the same logic?

(a) OTPU
(b) TOUP
(c) TOPU
(d) OTUP

Q30. Given below are two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Which of the options follows the same operation as given in the question?

(NOTE: Operations should be performed on the whole number, 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.)

(21, 10)

(87, 43)

(a) (55, 21)
(b) (18, 7)
(c) (27, 13)
(d) (25, 9)

Q31. 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 G and A when counted from the right of G. Only 2 people sit between E and D when counted from the right of E.E is an immediate neighbour of A. Only 2 people sit between B and C when counted from the left of C. What is the position of F with respect to B?

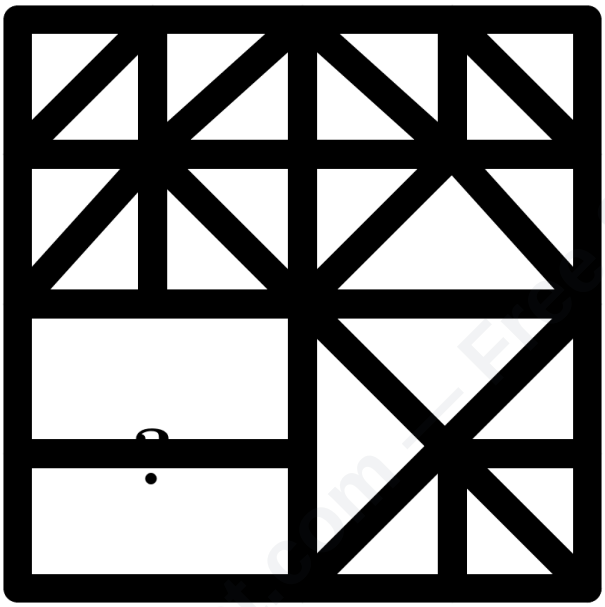
(a) 2^(nd) to the left
(b) 3^(rd) to the right
(c) 2^(nd) to the right
(d) 3^(rd) to the left

Q32. In a certain code language, 'MOBILE' is coded as '789419' and 'PINK' is coded as '2358'. How is 'I' coded in the given language?

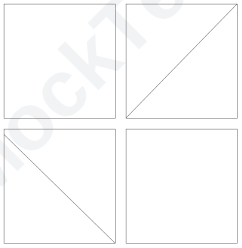
(a) 2
(b) 8
(c) 3
(d) 5

Q33. Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

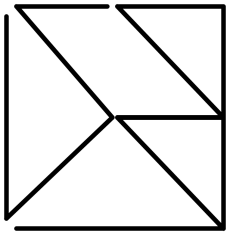
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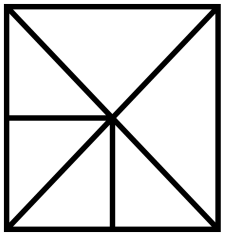
(a)



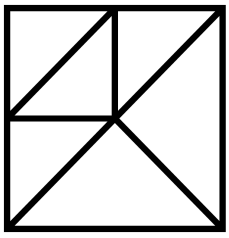
(b)



(c)



(d)



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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:

No crow is a parrot.

No parrot is a sparrow.

No crow is a sparrow.

Conclusions:

(I) No sparrow is a crow.

(II) No parrot is a crow.

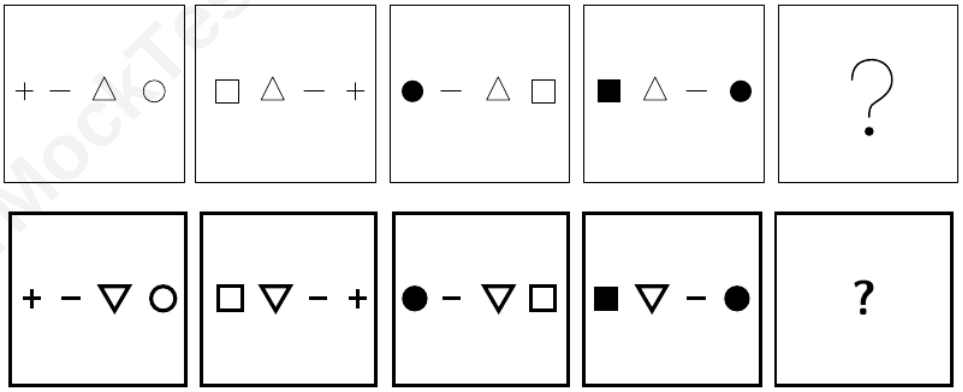
(a) Neither conclusion I nor II follows

(b) Only conclusion I follows

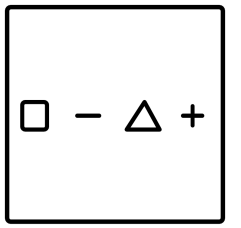
(c) Only conclusion II follows

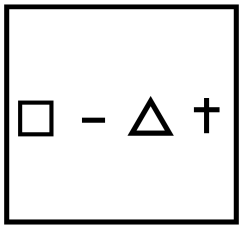
(d) Both conclusions I and II follow

Q35. Select the figure from the given options, which when put in place of the question mark (?) will logically complete the series.

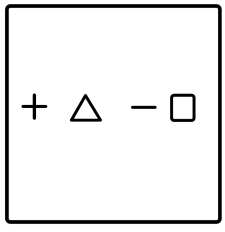


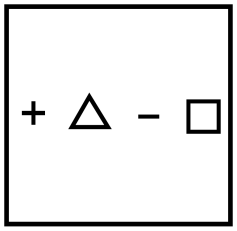
(a)



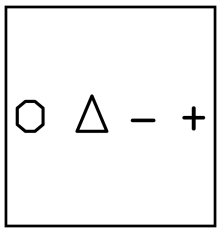


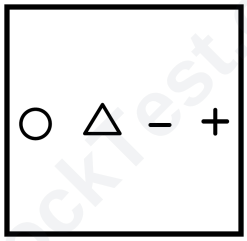
(b)



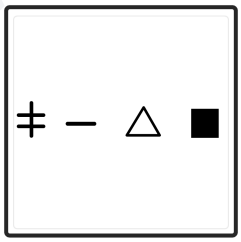


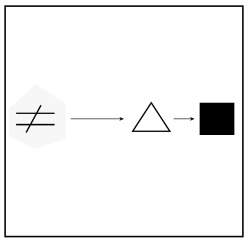
(c)





(d)





Q36. What will come in the place of the question mark (?) in the following equation if '−' and '÷' are interchanged and '+' and '×' are interchanged?

7 + 5 ÷ 4 + 5 ÷ 36 − 4 × 7 = ?

(a) 31
(b) 13
(c) 53
(d) 15

Q37. 10 is related to 99 following a certain logic. Following the same logic, 14 is related to 195. To which of the following is 22 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) 463
(b) 473
(c) 453

(d) 483

Q38. In a certain code language, 'BASE' is coded as '2416' and 'SOUP' is coded as '3719'. What is the code for 'S' in the given code language?

(a) 1
(b) 8
(c) 3
(d) 2

Q39. 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 lakes are rivers.

All rivers are dams.

Conclusions:

(I) At least some dams are lakes.

(II) All rivers are lakes.

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

Q40. In a certain code language, ‘find this clue’ is written as ‘ak dh fk’ and ‘clue for you’ is written as ‘sg fk bo’. How is ‘clue’ written in the given language?

(a) fk
(b) sg
(c) ak
(d) dh

SESSION 2

Q41. As per the World Happiness Index 2023, which of the following countries secured the highest rank?

(a) Nepal
(b) Sri Lanka
(c) Pakistan
(d) Bangladesh

Q42. Atmospheric temperature usually decreases with altitude, but sometimes this phenomenon gets reversed in the troposphere. This phenomenon is known as _____.

(a) Temperature Inversion
(b) Adiabatic Lapse Rate
(c) Global Warming
(d) Temperature Convection

Q43. What is the name of the German Chancellor who visited India in February 2023?

(a) Angela Merkel
(b) Olaf Scholz
(c) Willy Brandt
(d) Wilhlem Starkberg

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Q44. In the final match of the Asian Games _____ held in Jakarta, Indonesia, India secured gold by defeating South Korea with a score of 2-1 in football.

(a) 1962
(b) 1966
(c) 1970
(d) 1958

Q45. As per the Constitution of India, every Governor, before entering upon his office, will make and subscribe an oath in the presence of the _____.

(a) Chief Minister
(b) President
(c) Chief Justice of India
(d) Chief Justice of the High Court

Q46. The famous novel 'The house of blue mangoes' is written by:

(a) Romila Thapar
(b) Shashi Tharoor
(c) David Davidar
(d) Anees Salim

Q47. 'Alarippu' is the first dance item of which of the following Indian classical dance forms?

(a) Bharatanatyam
(b) Kuchipudi
(c) Kathakali
(d) Odissi

Q48. Which of the following are recognized as final goods while estimating the gross domestic product in India?

1. Wheat purchased for making roti in a house
2. Wheat purchased for making roti in a hotel
3. Tea bags used to make tea in a house
4. Tea bags used to make tea in a university hostel canteen

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

Q49. The Tunga and Bhadra are tributaries of which river?

(a) Narmada
(b) Tapti
(c) Krishna
(d) Godavari

Q50. When did India declare itself a Sovereign, Democratic and Republic state with the adoption of the Constitution?

(a) 14 November 1929
(b) 2 October 1949
(c) 15 August 1947
(d) 26 January 1950

Q51. Diwan-i-Am, containing the marble canopy ornamented with beautiful panels of pietra dura work, is a part of which monument?

(a) Bibi ka Maqbara
(b) Red Fort
(c) Taj Mahal
(d) Humayun Tomb

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Q52. Which of the following is a crop grown in Rabi season in India?

(a) Soyabean
(b) Maize
(c) Wheat
(d) Rice

Q53. The 'Secular' word in the Indian Constitution was added to the constitution by _____ Constitutional Amendment Act.

(a) 42^(nd)
(b) 44^(th)
(c) 46^(th)
(d) 48th

Q54. Who among the following Portuguese travellers visited the Vijayanagar empire during the reign of Krishnadevaraya?

(a) Domingo Paes
(b) Nicolo de Conti
(c) Ludovico de Varthema
(d) Athanasius Nikitin

Q55. Who among the following social reformers established the ‘Prarthana Samaj’ in Bombay in 1867?

(a) Gopal Hari Deshmukh
(b) Bal Gangadhar Tilak
(c) Atmaram Pandurang
(d) Ganesh Agarkar

Q56. Who among the following founded his Kuchipudi Art Academy at Madras in 1963?

(a) Kamalakar Kameshwar Rao
(b) Lakshmi Narayan Shastri
(c) Raja Reddy
(d) Vempati Chinna Satyam

Q57. Which of the following characteristics was used by Aristotle to classify animals?

(a) Specialised organs
(b) Types of body cells
(c) Habitat
(d) Photosynthesis

Q58. The 2011 census was the _____ official survey conducted in India.

(a) 16^(th)
(b) 14^(th)
(c) 15^(th)
(d) 18^(th)

Q59. As on February 2024, who among the following is the Union Minister for Ports, Shipping and Waterways?

(a) Giraj Singh
(b) Prahlad Joshi
(c) Sarbananda Sonowal
(d) Hardeep Singh Puri

Q60. If the Glycemic Index (GI) of a specific food is from 70 to 100, then the type of that food is:

(a) Low-GI food
(b) High-GI food
(c) Medium-GI food
(d) Extremely low-GI food

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Q61. In badminton, how high above the ground is the net positioned at the centre?

(a) 4 feet
(b) 5 feet
(c) 6 feet
(d) 5.5 feet

Q62. In 1905, Hindus and Muslims tied 'Rakhi' on each other's hands to show their unity and their protest against the _____.

(a) Partition of Punjab
(b) Rowlatt Act
(c) Morley-Minto Reforms
(d) Partition of Bengal

Q63. Which of the following statements are correct postulates of Dalton's atomic theory?

A. All matter is made up of atoms. These atoms participate in chemical reactions.
B. Atoms might be created or destroyed during a chemical reaction.
C. Atoms of different elements vary in mass and chemical properties.
D. Compounds are combination of atoms in the ratio of whole or fractional numbers.
E. A compound will always have constant relative number and kind of atoms.

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

Q64. The famous Sanskrit grammar book 'Mahabhasya' was written by:

(a) Bhartruhari
(b) Vedvyas
(c) Panini
(d) Patanjali

Q65. Hariharan was conferred the Padma Shri in 2004 for his contribution to which of the following fields?

(a) Medicine
(b) Sports
(c) Art - Music
(d) Civil Service

Q66. Select the option that can be used as a one-word substitute for the given group of words.

The scientific study of the structure and form of animals and plants

(a) Zoology
(b) Morphology
(c) Biology
(d) Botany

Q67. Select the INCORRECTLY spelt word.

(a) Annual
(b) Technical
(c) Regulator
(d) Machenical

Q68. Select the most appropriate option to fill in the blank.

She _____ the book to her friend.

(a) laned
(b) leant
(c) lend

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(d) lent

Q69. Select the option that correctly rectifies the underlined spelling error.

The beutiful flowers bloomed in the garden.

(a) beautifull
(b) beiutiful
(c) beautiful
(d) beautifuul

Q70. Select the most appropriate meaning of the underlined idiom.

We talked over the matter for two hours; unfortunately, we could not reach a decision.

(a) Argued
(b) Quarreled
(c) Debated
(d) Discussed

Q71. Select the grammatically correct sentence from the given options.

(a) The Nile is the longest river in the world with a length about approximately 6650 km.
(b) The Nile is the long river in the world with a length about approximately 6650 km.
(c) The Nile is the most long river in the world of a length of approximately 6650 km.
(d) The Nile is the longest river in the world with a length of approximately 6650 km.

Q72. Select the most appropriate meaning of the given idiom.

Like a dying duck in a thunderstorm

(a) Fearful or scared of water
(b) Dejected or hopeless
(c) Bad swimmer or practitioner
(d) Harmful or vigilant

Q73. Select the most appropriate ANTONYM that can substitute the underlined segment in the given sentence.

Amit, the stand-up comedian, delivered a hilarious performance.

(a) spleen
(b) ideological
(c) serious
(d) persistent

Q74. Select the grammatically correct sentence from the given options.

(a) A lot of books and notes place in order look most fascinating.
(b) A lot of books and notes placed in order look fascinating.
(c) A lot of books and notes placed on order looks most fascinating.
(d) A lot of book and notes placed in order looks most fascinating.

Q75. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The train is running / late by six hours / so it / cannot make over the time.

(a) so it
(b) cannot make over the time
(c) late by six hours
(d) The train is running

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

The writer's _____ prose resonated with readers, evoking powerful emotions.

(a) banal
(b) sporadic
(c) mundane

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(d) eloquent

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

The teacher emphasized the importance of _____ correct grammar and punctuation in our writing.

(a) used
(b) uses
(c) using
(d) use

Q78. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Gold is much costly than any other metal.

(a) most
(b) most costlier
(c) many
(d) more

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

The orator declared that the women are _____ than the men.

(a) most intelligent
(b) intelligenter
(c) more intelligent
(d) inteligent

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

Jack always looks handsome, even if he is a _____ out of style.

(a) little
(b) more little
(c) less
(d) least

Q81. Select the most appropriate ANTONYM that can substitute the underlined segment in the given sentence.

High-altitude climbing poses significant risks due to factors like altitude sickness, hypothermia and extreme weather conditions.

(a) inconsequential
(b) magnificent
(c) painful
(d) tempestuous

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

It's important to bring up sensitive topics in a respectful manner.

(a) Rude
(b) Drowsy
(c) Cordial
(d) Considerate

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

The croissant was _____, as was the coffee.

(a) eloquent
(b) excellent
(c) ambitious
(d) inferior

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Q84. Select the most appropriate synonym of the given word.

Idle

(a) Unoccupied
(b) Unsafe
(c) Ungrateful
(d) Uneasy

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

Doves _____ in the sky above me.

(a) sore
(b) shore
(c) sour
(d) soar

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.

It is true that strangers meeting for the first time seem to feel __1 if they do not engage _ 2_ small talk. Usually, this is __3__ and even necessary if strangers are to size each other up. But, this small talk aside, what are some _4__ rules for general conversation? In the first place, certain _5___ should be taboo. Kitchen topics, bus time-tables and other dull or specialised things should be barred from general discussion.

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

(a) discomforts
(b) comforting
(c) uncomfortable
(d) comforts

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

(a) by
(b) on
(c) from
(d) in

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

(a) happy
(b) comedy
(c) harmless
(d) remedy

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

(a) eliminating
(b) alimentary
(c) illuminative
(d) elementary

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

(a) subjects
(b) books
(c) objects
(d) essays

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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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