SSC MTS 2024 Official Paper (Held On: 17 Oct, 2024 Shift 1) (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. A batsman scored the following runs in the last 5 innings. Find his score in the 4th innings if the average score is 43.
Innings Score (in runs)
1st - 92
2nd - 53
3rd - 35
4th - X
5th - 27
(a) 8
(b) 4
(c) 12
(d) 10

Q2. A man's average driving speed for 9 hours is 88 km/hr. During the first five hours of his journey, he drove at 74 km/hr, and last two hours he drove at 82 km/hr. What was his average speed (in km/hr) for the sixth and the seventh hour?
(a) 92
(b) 120
(c) 129
(d) 101

Q3. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 8% per year rate of interest for 2 years.
(a) 340
(b) 400
(c) 440
(d) 360

Q4. Pure ghee costs Rs. 100 per kg. After adulterating it with vegetable oil costing Rs. 50 per kg, a shopkeeper sells the mixture at the rate of Rs. 96 per kg, thereby making a profit of 20%. In what ratio does he mix the two?
(a) 4 : 1
(b) 1 : 2
(c) 3 : 2
(d) 3 : 1

Q5. Three candidates contested an election and received 1234, 8448 and 20180 votes, respectively. What percentage of the total votes did the winning candidate get? (Rounded off to 2 decimal places)
(a) 55.26%
(b) 48.25%
(c) 58.25%
(d) 67.58%

Q6. Study the given table and answer the question that follows.

The given table shows the data regarding population and literacy/illiteracy rate among the population in three different Cities.

Cities	Respective ratio between number of males and females	Percentage of literates (Males and females) out of total population	Number of illiterates (Males and females) out of total population
X	7:9	78	2560
Y	3:7	83	2780
Z	5:2	92	3540

The number of illiterates in village Y is what percentage less than that in village Z? (Rounded off to 2 decimal places.)

(a) 20.36%
(b) 18.27%
(c) 23.25%
(d) 21.47%

Q7. Find the simple interest (in Rs.) on Rs. 2000 as a sum borrowed at 6% per year rate of interest for 5 years.

(a) 600
(b) 560
(c) 640
(d) 540

Q8. The ratio of the perpendicular height and the slant height of a right circular cone is given as 4 : 5 and the volume of the cone is given as 12,936 cm^3. Find the radius (in cm) of the base of the given cone. (Use $\pi = 22/7$.)

(a) 28
(b) 35
(c) 24
(d) 21

Q9. Which of the following options is equal to the radius of the new sphere, if three spheres of radii 5cm, 3cm and 4cm are melted into form a new sphere?

(a) 5 cm
(b) 8 cm
(c) 6.5 cm
(d) 6 cm

Q10. A cone of radius 16 cm and height 12 cm is cut, parallel to the base, at some height closer to the top. If the ratio of the heights of the solids is 1: 3, then the ratio of the total surface areas of the two solids formed is approximately given by:

(a) 9 : 143
(b) 1 : 8
(c) 2 : 15
(d) 7 : 180

Q11. The average weight of 20 boys is 60 kg. Together with 30 girls, the average weight of all boys and girls is 54 kg. What is the average weight of 30 girls in kg?

(a) 54
(b) 50
(c) 52
(d) 55

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Q12. A student's overall grade is determined by their scores in three subjects: Mathematics, English, and Science, with weights of 40%, 30%, and 30%, respectively. If the student scores 80, 90, and 75 in these subjects, respectively, the overall grade of the student is:

(a) 82
(b) 81.5
(c) 82.5
(d) 81

Q13. By selling an article for Rs. 20, a dealer makes a profit of 10%. By how much should he increase his selling price (in Rs. , rounded off to two decimal place) so as to make a profit of 45%?

(a) 6.36
(b) 8.36
(c) 7.36
(d) 9.36

Q14. A shopkeeper offers two schemes, the first being a single discount of 30%, and the second being two successive discounts of 25% and 5%. What is the difference (in Rs.) in the discounts of both the schemes if the customer did the shopping of Rs. 5,000 each in both the schemes?

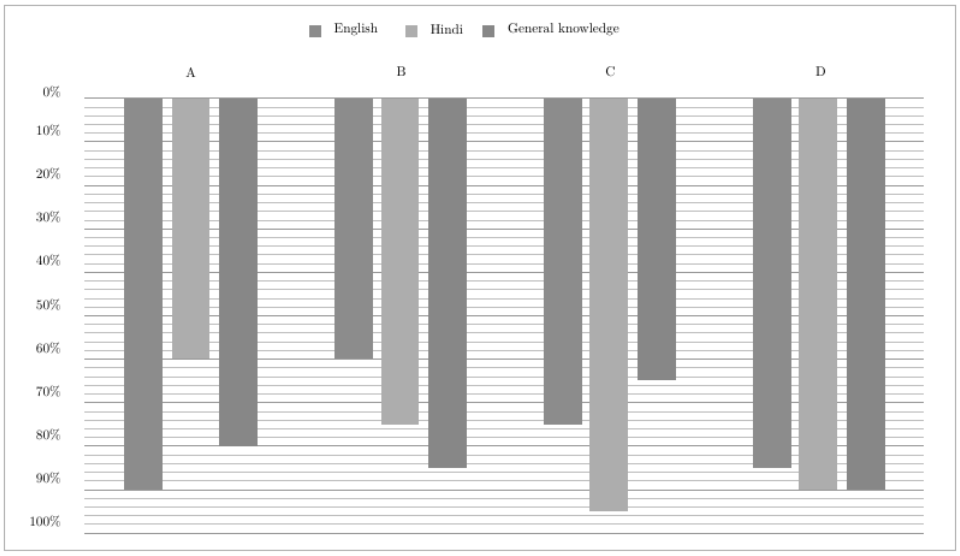
(a) 67.50
(b) 62.50
(c) 70
(d) 65

Q15. A policeman saw a thief at a distance of 800m. When the policeman started chasing the thief, the thief started running. If the ratio of the speeds of the policeman to the thief is 3:2, then the distance travelled by the policeman to catch the thief is

(a) 1.6 km
(b) 3.2 km
(c) 2.4 km
(d) 2 km

Q16. Study the given bar graph and answer the question that follows.

The given bar graph represents the average percentage marks obtained in English, Hindi and General Knowledge by students of four centres (A, B, C and D).



If the full marks in English is 150, Hindi is 50 and General Knowledge is 200, then find the difference between the total marks of the centre A and D.

(a) 27.5
(b) 28.25
(c) 29.5

(d) 25

Q17. The ratio of prices of coffee and tea is 5 : 7 and the ratio of their quantities consumed by a family is 7 : 9. Find the ratio of expenditures on coffee and tea.

(a) 7 : 5
(b) 5 : 9
(c) 7 : 9
(d) 9 : 5

Q18. A certain sum of money will be Rs. 10,800 in 5 years. If simple interest is two-third of the principal, then the rate of interest p.a. is equal to:

(a) 121/2%
(b) 122/3%
(c) 131/3%
(d) 132/3%

Q19. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 72 kg and 37 kg is:

(a) 51.8
(b) 49.8
(c) 50.8
(d) 52.8

Q20. The length and the breadth of the floor of a rectangular hall are 98 feet and 70 feet, respectively. If all persons in the hall are allotted equal square spaces as workstations, what will be the area of the largest such workstation that can be allotted to any user, assuming no space in the hall is left unoccupied?

(a) 196 sq. ft
(b) 144 sq. ft
(c) 100 sq. ft
(d) 256 sq. ft

Q21. In a certain language, 'INCH' is coded as '9631', and 'THIN' is coded as '3269'. What is the code for 'T' in 'THIN'?

(a) 6
(b) 9
(c) 2
(d) 3

Q22. 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 two people sit between E and F when counted from the right of E. Only two people sit between F and C. Only three people sit between E and B. D sits to the immediate left of A. How many people sit between A and G when counted from the left of A?

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

Q23. What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

5 + 3 – 10 × 2 ÷ 2 = ?

(a) 15
(b) 13
(c) 17
(d) 12

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

115 117 123 125 131 ?

(a) 133
(b) 134
(c) 135
(d) 132

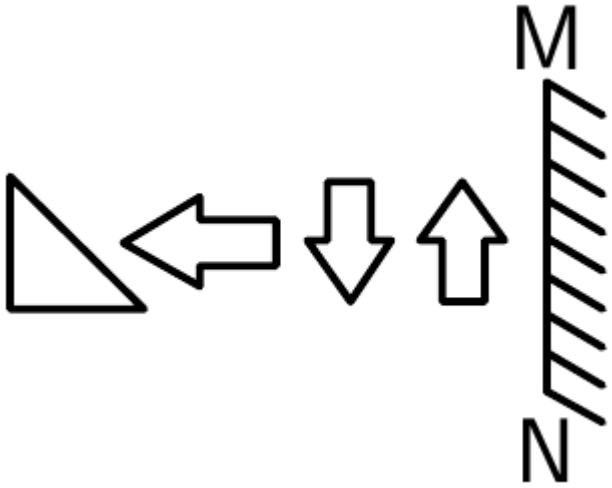
Q25. A, B, C, D, E, F and G are sitting around a round table facing the centre (but not necessarily in the same order). C is sitting to the immediate left of A and immediate right of E. E is sitting to the immediate right of B. D is sitting to the immediate left of B and immediate right of F. A is sitting to the immediate left of G. Who is sitting to the immediate right of G?

(a) E
(b) D
(c) A
(d) F

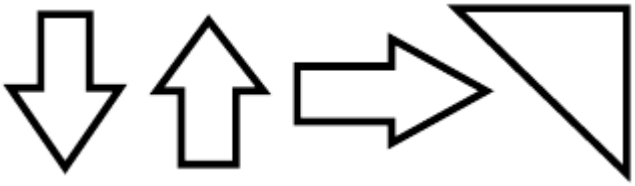
Q26. In a certain code language, 'legs hands ears' is coded as 'du ph bq', 'hands eyes hearts' is coded as 'ak fd du', 'ears hearts arms' is coded as 'fd bq dy'. What is the code for 'eyes' in that language? (Note: All the codes are two-letter coded only.)

(a) fd
(b) ph
(c) ak
(d) du

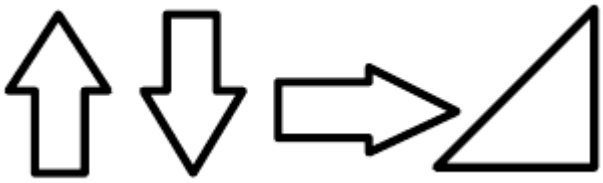
Q27. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)

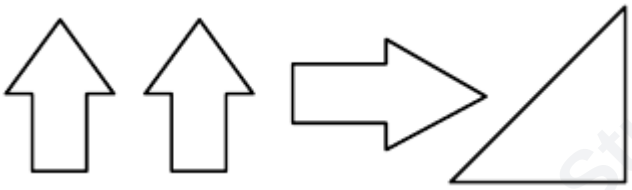


(b)



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(c)



(d)



Q28. Which two numbers should be interchanged to make the given equation correct?

(24 ÷ 6) + (18 × 4) – 54 + 42 = 99

(Note: Interchange should be done of entire number and not individual digits of a given number)

(a) 24 and 54
(b) 54 and 42
(c) 4 and 6
(d) 18 and 24

Q29. 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 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(8, 64, 2)

(12, 12, 1)

(a) (10, 3426, 7
(b) (8, 722, 9)
(c) (6, 214, 6)
(d) (4, 256, 4)

Q30. 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:

Some ants are flies.

All flies are bees.

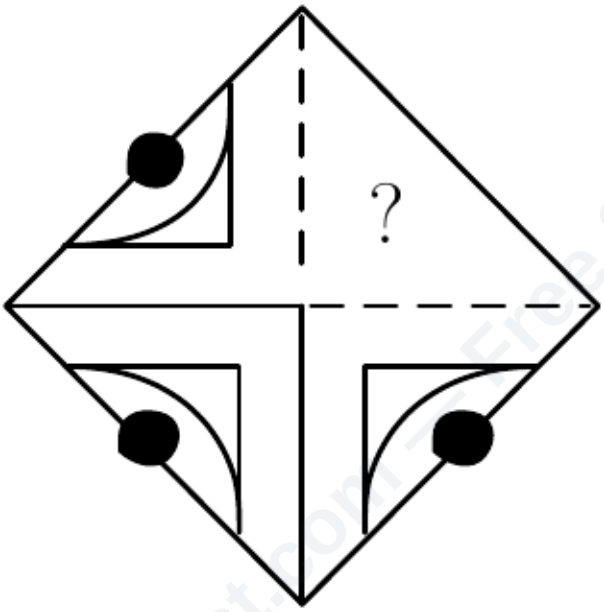
Conclusions:

(I): No ant is a bee.

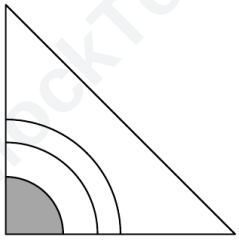
(II): Some ants are bees.

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

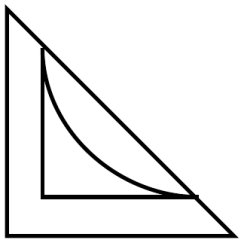
Q31. Select the option figure that will replace the question mark (?) in the figure given below, to complete the pattern.



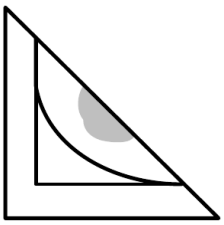
(a)



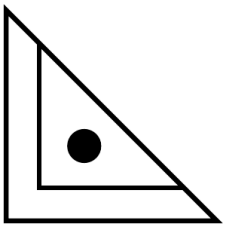
(b)



(c)



(d)

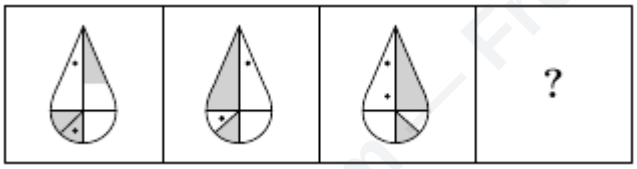


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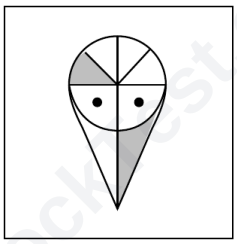
Q32. NUQM is related to PWSO in a certain way based on the English alphabetical order. In the same way, JQMI is related to LSOK. To which of the following is QXTP related, following the same logic?

(a) ZSVR
(b) SZRV
(c) ZSRV
(d) SZVR

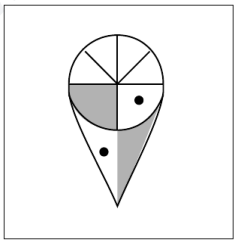
Q33. Select the figure from among the given that will come in place of the question mark (?) and logically complete the series.



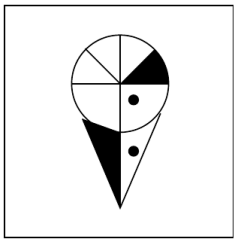
(a)



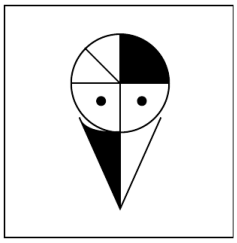
(b)



(c)



(d)



Q34. ODGM is related to NBFK in a certain way based on the English alphabetical order. In the same way, TAYP is related to SYXN. To which of the following is RJFB related, following the same logic?

(a) QHEZ
(b) PGDD
(c) PFCC
(d) RHDC

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Q35. In a certain code language, ‘SPIKE’ is coded as ‘82467’ and ‘LIKES’ is coded as ‘47298’. What is the code for ‘P’ in the given code language?

(a) 2
(b) 6
(c) 4
(d) 8

Q36. In a certain code language, ‘TURF’ is coded as ‘5691’ and ‘RAFT’ is coded as ‘6935’.

What is the code for ‘A’ in the given code language?

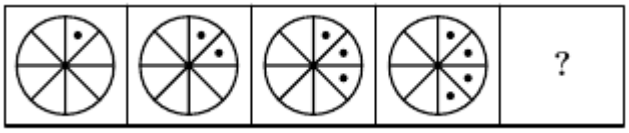
(a) 3
(b) 9
(c) 6
(d) 5

Q37. 12 is related to 81 following a certain logic. Following the same logic, 24 is related to 153. To which of the following is 19 related, following the same logic?

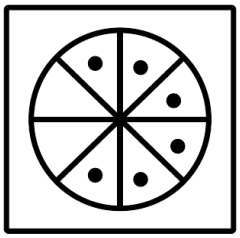
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and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

(a) 129
(b) 123
(c) 131
(d) 125

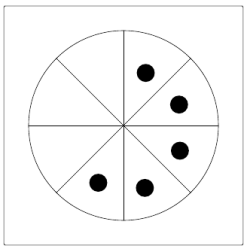
Q38. Identify the figure given in the options which when put in place of (?) will logically complete the series.



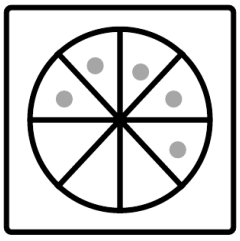
(a)



(b)

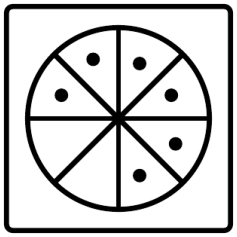


(c)



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(d)



Q39. What should come in place of the question mark (?) in the given series based on the English alphabetical order ?

BDG, HJM, NPS, TVY, ?

(a) ZBE
(b) XZC
(c) ACF
(d) YAD

Q40. 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 parrots are eagles.

Some parrots are ostriches.

Conclusions:

(I) Some eagles are parrots.

(II) Some eagles are ostriches.

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

SESSION 2

Q41. Who among the following has written the famous novels (originally in Bangla) 'Devdas' and 'Parineeta'?

(a) Rabindra Nath Tagore
(b) Nabin Chandra Sen
(c) Sarat Chandra Chattopadhyay
(d) Bankim Chandra Chatterjee

Q42. In which of the following states is shifting agriculture locally called Penda?

(a) Andhra Pradesh
(b) Orissa
(c) West Bengal
(d) Madhya Pradesh

Q43. Analgesic medicines are used for _____.

(a) supporting physiological functions
(b) correcting deficiencies due to vitamins and nutrients
(c) reducing pain and in fever
(d) killing or weakening microbes and infections

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Q44. Who among the following was the captain of the Indian cricket team during the 1983 Cricket World Cup event?

(a) Sandeep Patil
(b) Sachin Tendulkar
(c) Mohinder Amarnath
(d) Kapil Dev

Q45. Which of the following is NOT an important function of the Supreme Court?

(a) It acts to check on executive authorities and enforce the rule of law
(b) It maintains federal equilibrium
(c) It maintains of land records and revenue collection
(d) It is the protector and guarantor of fundamental rights

Q46. The Ebony, Mahogany, Cinchona etc. are trees found in which type of forests in India?

(a) Tropical Deciduous Forests
(b) Thorny Forests
(c) Mangrove Forests
(d) Tropical Evergreen Forests

Q47. Who was the first feudatory of Pallavas?

(a) Harshvardhan
(b) Rajendra
(c) Ashoka
(d) Vijayalaya

Q48. All living organisms on the Earth are made up of carbon compounds. Many years ago, dead and buried plants started slowly modifying into coal under high temperature and high pressure. This process is called:

(a) carbonization
(b) black gold formation
(c) peat formation
(d) composting

Q49. What kind of structures are generally used by Buddhists for containing remains of their monks and nuns?

(a) Stupas
(b) Grihas
(c) Viharas
(d) Garbha griha

Q50. Who among the following was the Viceroy of India during the announcement of the Partition of Bengal in 1905?

(a) Lord Hastings
(b) Lord Dalhousie
(c) Lord Canning
(d) Lord Curzon

Q51. Consider the following lists:

List I (Congress Session)	List II (President)
1 Bombay, 1885	(a) Rahimtullah M. Sayani
2 Calcutta, 1896	(b) Rash Behari Ghosh
3 Surat, 1907	(c) Sarojini Naidu
4 Kanpur, 1925	(d) Womesh Chandra Bannerjee

Select the correct answer using the code given below:

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

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

Q52. Jaiminiya and Kausitaki dances are mentioned in which of the following?
(a) Agamas
(b) Brahmanas
(c) Puranas
(d) Vedas

Q53. Match the columns.

List-I (South Indian King)	List-II (Dynasty)
1. Maravarman Sundara Pandyan	A) Hoysalas
2. Krishnadevaraya	B) Chalukyas
3. Narasimha II	C) Pandyas
4. Tailapa III	D) Tuluvas

(a) 1-(D); 2 -(C); 3 -(B); 4 -(A)
(b) 1-(C); 2 -(D); 3 -(A); 4 -(B)
(c) 1-(A); 2 -(B); 3 -(C); 4 -(D)
(d) 1-(C); 2 -(A); 3 -(D); 4 -(B)

Q54. Which of the following is considered as a day of mourning among the Muslim community?
(a) Bakri Eid
(b) Muharram
(c) Shab-e-Barat
(d) Barah Wafat

Q55. As per Planning Commission of India, in 2004–05, the percentage of total population of India below poverty line (Lakadawala Poverty Estimates combined) was:
(a) 38.86%
(b) 27.5%
(c) 44.48%
(d) 35.97%

Q56. Geeta Chandran received the Padma Shri in 2007 who is an acclaimed _____ dancer.
(a) Sattriya
(b) Bharatanatyam
(c) Odissi
(d) Mohiniyattam

Q57. Who first postulated that cells are generated from pre-existing cells?
(a) Jennifer Doudna
(b) Rudolf Virchow
(c) William Harvey
(d) Carl Linnaeus

Q58. Ustad Ghagge Khuda Baksh was associated with which of the following gharanas?
(a) Delhi gharana
(b) Benaras gharana
(c) Agra gharana
(d) Gwalior gharana

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Q59. Which Article of the Constitution of India lays down qualifications for the membership of the Parliament?

(a) Article 105
(b) Article 85
(c) Article 84
(d) Article 80

Q60. It is observed that a child's heart rate is 135 times per minute. The beat frequency of heart is ____.

(a) 8100 Hz
(b) 2.25 Hz
(c) 1.12 Hz
(d) 135 Hz

Q61. What is the standard length of an Olympic-size swimming pool?

(a) 70 metres
(b) 50 metres
(c) 60 metres
(d) 40 metres

Q62. As per the National Multidimensional Poverty Index Report 2021, which of the following states has the least population under poverty?

(a) Tamil Nadu
(b) Sikkim
(c) Himachal Pradesh
(d) Punjab

Q63. In October 2023, Raghubar Das has been appointed the Governor of which of the following states of India?

(a) West Bengal
(b) Maharashtra
(c) Odisha
(d) Chhattisgarh

Q64. In January 2023, the Warehouse Development Regulation Authority (WDRA) signed a memorandum of understanding with _____ of India to help farmers get low interest rate loans.

(a) Bank of Baroda
(b) Canara Bank
(c) Union Bank of India
(d) State Bank of India

Q65. Recreation services are an example of _____.

(a) consumer goods
(b) capital goods
(c) intermediate goods
(d) inferior good

Q66. 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.

She was amazed by / the unique architecture of / the Sydney Opera House.

(a) No error
(b) She was amazed by
(c) the unique architecture of
(d) the Sydney Opera House

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Q67. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

He told / his senior, "I / will sung a song / at the party tonight."

(a) He told
(b) at the party tonight.
(c) will sung a song
(d) his senior, "I

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

There was no one left in the world whom they could call _____.

(a) there's
(b) their's
(c) their
(d) theirs

Q69. Select the most appropriate synonym of the given

Exemplary

(a) Bad
(b) Ordinary
(c) Excellent
(d) Average

Q70. Select the most appropriate option to fill in the blank and complete the expression.

I begin to pronounce the sequence of words and numbers that will prevent her from giving him a piece of her _____.

(a) mind
(b) cake
(c) art
(d) music

Q71. Select the INCORRECTLY spelt word.

(a) Committee
(b) Achieve
(c) Conscientous
(d) Necessary

Q72. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in the blanks.

The touch-sensitive surface is one of the reasons why tablets and smart phones are so smart. All touchscreens generate an electric field _____ the screen. Your finger interferes with the field, and the device's operating system _____ your touch or swipe.

(a) across; follows
(b) past; attends
(c) beyond; escorts
(d) onto; chases

Q73. Correct the underlined part of the sentence.

The rabbit runs fastly

(a) fastest
(b) as fast as
(c) faster
(d) fast

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Q74. Select the most appropriate option to fill in the blank.

The students were captivated by the _____ story told by their teacher.

(a) superfluous
(b) compelling
(c) mundane
(d) obsolete

Q75. Identify the INCORRECTLY spelt word.

(a) Deliverence
(b) Banquet
(c) Condescend
(d) Alliteration

Q76. Select the most appropriate synonym of the underlined word.

He is reluctant to do the work.

(a) happy
(b) disposed
(c) hesitant
(d) eager

Q77. Select the grammatically correct sentence.

(a) It is a obvious that child needs love and attention of parents.
(b) It is an obvious that child needs love and attention of parents.
(c) It is obvious that a child needs love and attention of parents.
(d) It is the obvious that child needs love and attention of parents.

Q78. Select the most appropriate meaning of the given idiom.

It's raining cats and dogs.

(a) It's a perfect day for a picnic.
(b) There are cats and dogs in the rain.
(c) It's raining very heavily.
(d) The rain is very light.

Q79. Select the most appropriate ANTONYM of the underlined word.

Ritesh remarked, "Honesty is a great virtue."

(a) Probity
(b) Rectitude
(c) Integrity
(d) Wickedness

Q80. Select the most appropriate meaning of the given word.

Improbable

(a) Plausible
(b) Implausible
(c) Practical
(d) Tenable

Q81. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Maria was unhappy / because she terribly performed / in the examination / conducted last month.

(a) Maria was unhappy
(b) conducted last month
(c) in the examination
(d) because she terribly performed

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Q82. Select the option that can be used as a one-word substitute for the given group of words.

A room in a hospital used especially for sunbathing or therapeutic exposure to light

(a) Sanatorium
(b) Solarium
(c) Planetarium
(d) Podium

Q83. In the following sentence the underlined part contains as error. Alternatives to the underlined part are given as options. Select the correct alternative.

It is very hottest over here.

(a) hotter
(b) more hot
(c) hot
(d) most hot

Q84. Select the most appropriate ANTONYM of the word in brackets to fill in the blank.

He spoke softly and _____ (tensely), trying to diffuse the tense situation.

(a) madly
(b) calmly
(c) furiously
(d) excitingly

Q85. Select the correctly spelt word to fill in the blank and make the sentence meaningful.

Anuradha travelled to Italy last summer and _____ the historic ruins of Rome.

(a) ascplored
(b) explored
(c) explord
(d) explaured

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.

As community-minded creatures who want (1)_____ to belong, we often mirror others, including on social media, where we adopt phrasing, tone and expressions of emotion. In the past few years, social media has had a (2)_____ on hyper positivity: think cheery emojis and (3)_____ quotes plastered over sunsets. Some put this 'good vibes only' trend down to the pandemic and a (4)_____ to avoid painful feelings when (5)_____ on difficult realities. However, attempting to convey constant happiness is not only difficult but impossible

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

(a) laudatory
(b) deeply
(c) abiotically
(d) crisply

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

(a) blemish
(b) disregard
(c) focus
(d) dispersion

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

(a) inobtrusive
(b) reticent
(c) deterring

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(d) motivational

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

(a) desire
(b) listlessness
(c) apathy
(d) indolence

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

(a) laminating
(b) ruminating
(c) collaborating
(d) stagnating

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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