SSC MTS 2024 Official Paper (Held On: 29 Oct, 2024 Shift 3) (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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Scan the QR code or click the link to open it.

SESSION 1

Q1. A retailer offers the following discount schemes for buyers on an article. Which scheme will be least beneficial to the customer?

i. A discount of 30%.

ii. A discount of 22% followed by a discount of 8%.

iii. Successive discounts of 25% and 5%.

(a) Scheme i
(b) Scheme ii and Scheme iii
(c) Scheme ii
(d) Scheme iii

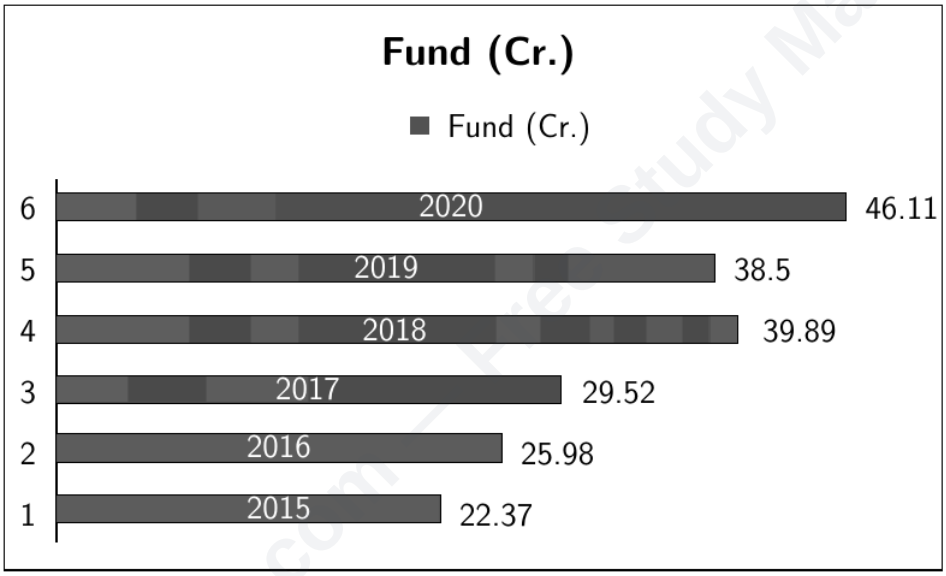
Q2. In a math exam, two students scored 95, six students scored 90, three students scored 80, and one student scored 50. What was the average score of the class?

(a) 85
(b) 82
(c) 96.25
(d) 78.75

Q3. The diameter of a hollow hemisphere is 30 cm. Water is filled in it up to its brim. When spherical lead shots each of radius 0.75 cm are dropped into the hemisphere, two-fifth of the water flows out. How many lead shots were dropped into the hemisphere?

(a) 1575
(b) 2250
(c) 1600
(d) 1380

Q4. The following bar graph represents the flow of funds of XYZ India Pvt. Ltd from 2015-2020. Calculate the percentage of average rate (approx.) of the increase in funds from 2015-2017.



(a) 16%
(b) 15%
(c) 32%
(d) 30%

Q5. The radii of the bases of two cylinders and their heights are in the ratio 4 : 3 and 9 : 8, respectively. Find the ratio of their curved surface areas.

(a) 3 : 2
(b) 4 : 5
(c) 2 : 3
(d) 5 : 6

Q6. A grocer wishes to sell a mixture of two varieties of rice worth Rs. 48 per kg. In what ratio must he mix the rice to reach this selling price when the cost of one variety of rice is Rs. 42 per kg and the other is Rs. 60 per kg?

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

Q7. 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 30%?

(a) 6.64
(b) 3.64
(c) 5.64
(d) 4.64

Q8. In a circular race of 1 km, two persons X and Y start with the speed of 9 km/h and 18 km/h, respectively, at the same time from the same point. When will they meet for the first time at the starting point when running in the same direction?

(a) 400 sec
(b) 200 sec
(c) 180 sec
(d) 240 sec

Q9. Two athletes X and Y are jogging on a circular path whose circumference is 500 m. Athlete X jogs at a speed of 18 km/h and Y jog at 9 km/h, jogging in opposite directions. The time at which they will meet for the first time is:

(a) 66.66 s
(b) 50 s

(c) 200 s
(d) 27.77 s

Q10. The money invested by Gopal at simple interest amounts to Rs. 16,150 in 3 years and to Rs. 16,540 in 4 years. What was the principal amount invested by him?
(a) Rs. 11,150
(b) Rs. 16,150
(c) Rs. 18,150
(d) Rs. 14,980

Q11. Refer to the following data table and answer the question. The maximum marks for each subject is 100.

Subjects	Marks Scored
Math	83
Science	51
Hindi	68
English	62
Sanskrit	71

Seven marks are to be deducted from each subject because of poor attendance. What will be the net average marks scored by the student?
(a) 67
(b) 56
(c) 60
(d) 65

Q12. What sum (in Rs.) will earn a simple interest of Rs. 240 in 4 years at 16% per year rate of interest?
(a) 375
(b) 500
(c) 800
(d) 750

Q13. In the first 24 matches, a cricket player averages 60 runs. The overall average for all 32 matches is 80. Determine the average for the last 8 matches.
(a) 140
(b) 110
(c) 120
(d) 130

Q14. A vendor bought candies at Rs. 5 each. At what price must he sell to make 20% profit?
(a) Rs. 6.00
(b) Rs. 5.50
(c) Rs. 5.75
(d) Rs. 5.25

Q15. The curved surface area of a right circular cylinder is 8580 cm^2. If the height of the cylinder is 15 cm, then find the diameter (in cm) of the circular base. (Take $\pi = 22/7$)
(a) 182
(b) 137
(c) 152
(d) 91

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Q16. Arjun mixed three different oils to form a mixture costing Rs. 25 per litre. The ratio of the three varieties of oil was 1 : 5 : 2. What is the cost (per litre in Rs.) of the second variety if the cost per litre of the first and third varieties was Rs. 20 and Rs. 30, respectively?

(a) 25
(b) 28
(c) 26
(d) 24

Q17. Find the simple interest (in Rs.) on Rs. 2500 as a sum borrowed at 4% per year rate of interest for 2 years.

(a) 240
(b) 200
(c) 160
(d) 140

Q18. A man's working hours per day were increased by 10% and his wages per hour were increased by 5%. By how much per cent were his daily earnings increased?

(a) 10.3%
(b) 12.2%
(c) 5%
(d) 15.5%

Q19. If P (P > 0) is the least possible number that must be subtracted from 7, 9, and 12 so that the resulting numbers are in continued proportion, then P is

(a) 10
(b) 12
(c) 3
(d) 8

Q20. Find the HCF of $2^3 \times 3^3 \times 5^2 \times 7^2$, 2^4 x $3^2 \times 5^3 \times 7^2$ and 3 x 5 x 7 x 11

(a) 1260
(b) 360
(c) 105
(d) 1155

Q21. What should come in place of the question mark (?) in the given series?

46, 44, 40, 38, 34, 32, ?

(a) 26
(b) 28
(c) 30
(d) 24

Q22. In a code language, 'ZHBN' is coded as 'BEFI' and 'LFWJ' is coded as 'NCAE'. How will 'HVDK' be coded in that language?

(a) KSIF
(b) KTJD
(c) JSHF
(d) JTHD

Q23. VOAH is related to YPBK in a certain way based on the English alphabetical order. In the same way, RGDS is related to UHEV. To which of the following is IBXC related, following the same logic?

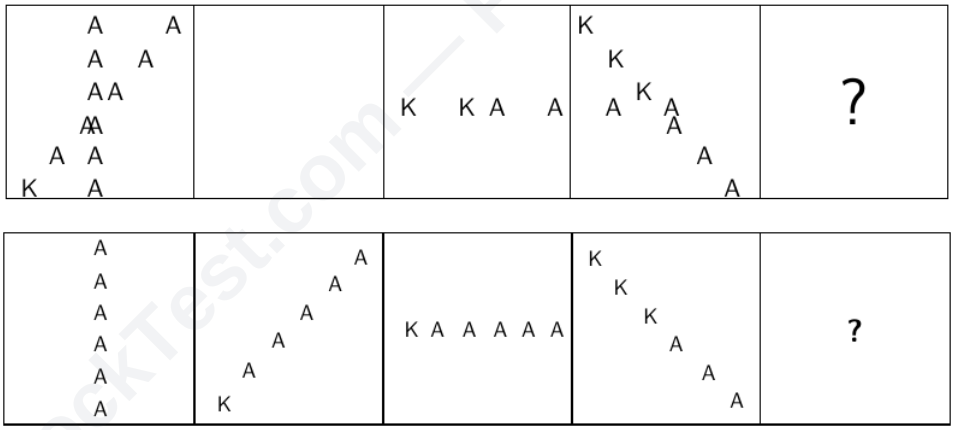
(a) MDYG
(b) NEZF
(c) LCYF
(d) KCZD

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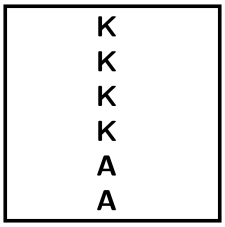
Q24. Six employees Dhiraj, Roshan, Satish, Pawan, Tarun and Niraj are sitting around a circular table, facing the centre (but not necessarily in the same order). Satish is sitting to the immediate right of Pawan. Niraj is sitting second to the left of Satish. Tarun is sitting to the immediate left of Niraj. Only Tarun is sitting between Niraj and Roshan. Who is sitting between Satish and Roshan?

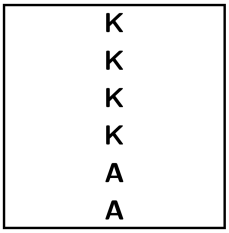
(a) Pawan
(b) Niraj
(c) Dhiraj
(d) Tarun

Q25. Identify the figure given in the options which when put in place of ? will logically complete the series.

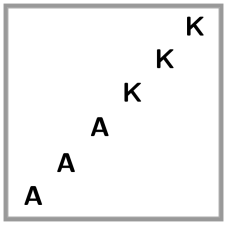


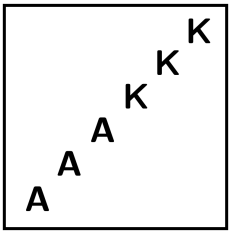
(a)



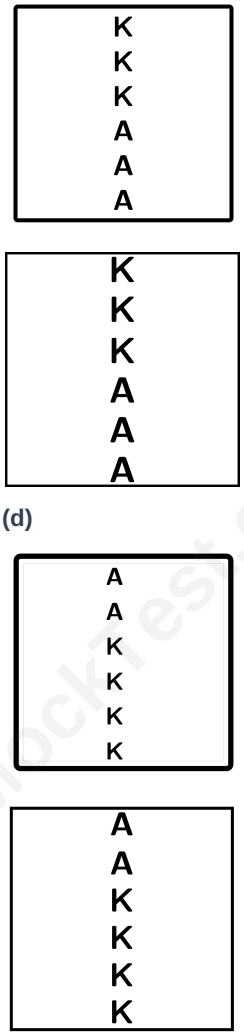


(b)





(c)



(d)

Q26. 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 C sits between G and E. E sits third to the left of F. D sits to the immediate left of F. B is not an immediate neighbour of E.

Who sits second to the right of A?

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

Q27. In a certain code language, ‘BUSY’ is coded as ‘8642’ and ‘SIDE’ is coded as ‘7536’.What is the code for ‘S’ in the given code language?

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

Q28. In a certain code language, 'I am infinite' is written as 'la ma ra' and 'universe is infinite' is written as 'ra ba ta'. How is 'infinite' written in the given code language?

(a) ra
(b) ta
(c) ma
(d) ba

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Q29. TVRM is related to VUPN in a certain way based on the English alphabetical order. In the same way, ROEP is related to TNCQ. To which of the following is KOCB related, following the same logic?

(a) NMAC
(b) MNAC
(c) MNBC
(d) NMBC

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:

All puppies are dogs.

All dogs are animals.

Conclusions:

I. All animals are puppies.

II. Some dogs are not puppies.

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

Q31. In a code language, 'JSCQ' is coded as ‘MNJH’ and 'BYTE' is coded as ‘ETAV’. How will 'SEWX' be coded in that language?

(a) VZDO
(b) VXDM
(c) WXEM
(d) WZEO

Q32. 10 is related to 6 following a certain logic. Following the same logic, 14 is related to 8. To which of the following is 24 related following the same logic?

NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into 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) 16
(b) 15
(c) 11
(d) 13

Q33. 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 mugs are cups.

No paper is a mug.

Conclusions:

(I) Some cups are mugs.

(II) No paper is a cup.

(a) Both conclusions (I) and (II) follow
(b) Only conclusion (II) follows
(c) Either conclusion (I) or (II) follows
(d) Only conclusion (I) follows

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Q34. Select the set in which the numbers are related in the same way as are the numbers of the given 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.)

(38, 31, 47)

(42, 35, 51)

(a) (33, 24, 30)
(b) (29, 21, 39)
(c) (54, 47, 63)
(d) (46, 60, 49)

Q35. What will come in place of the question mark (?) in the following equation if '+' and '–' are interchanged and '×' and '÷' are interchanged?

24 × 12 – 5 ÷ 2 + 7 = ?

(a) 3
(b) 8
(c) 5
(d) 7

Q36. Which of the following interchanges of signs would make the given equation correct?

25 − 63 ÷ 3 + 7 × 5 = 11

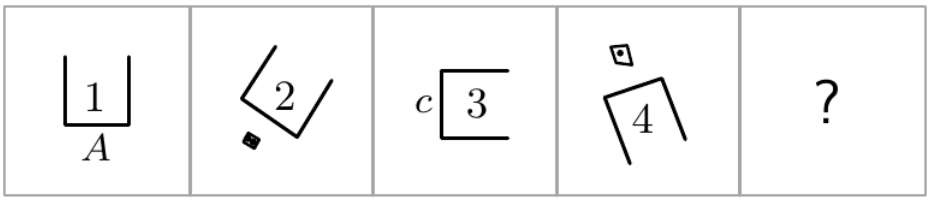
(a) − and ×
(b) • and ÷
(c) • and −
(d) ÷ and −

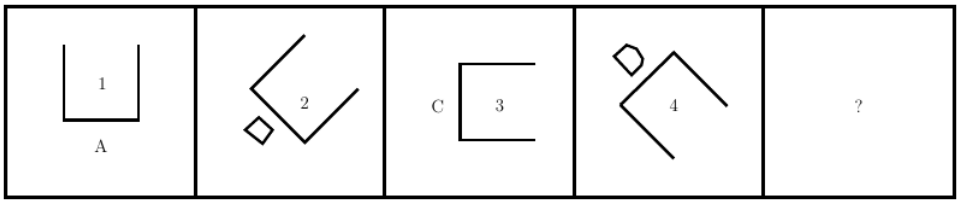
Q37. What should come in place of the question mark (?) in the given series based on the English alphabetical order ?

DEF, JKL, PQR, VWX, ?

(a) YZB
(b) UWZ
(c) ZBE
(d) BCD

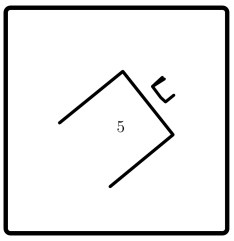
Q38. Identify the figure given in the options that when put in place of the question mark (?) will logically complete the series.

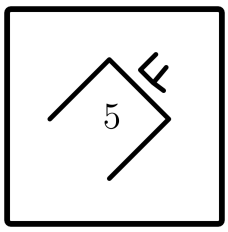




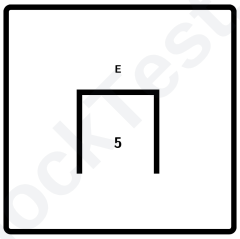
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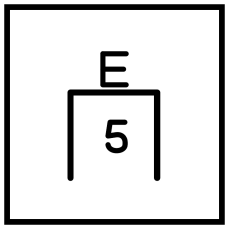
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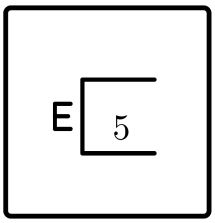


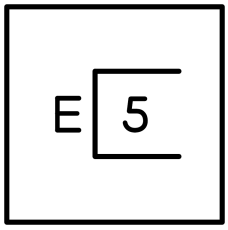
(b)



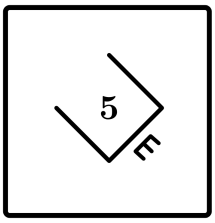


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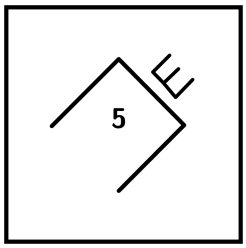




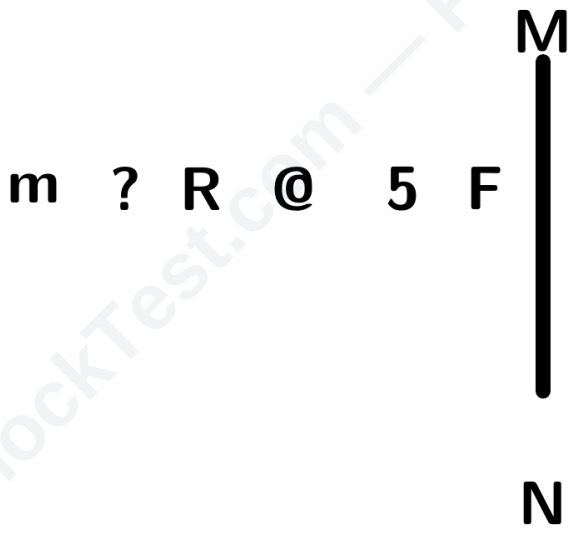
(d)



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Q39. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



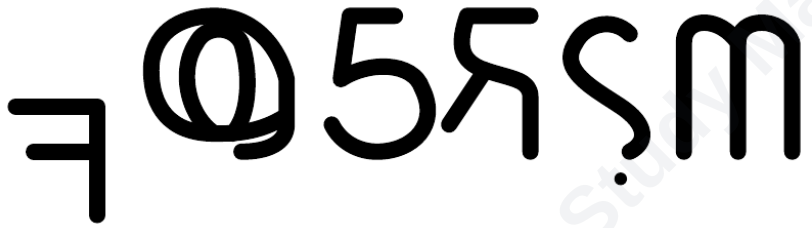
m∠ROSF



(a)



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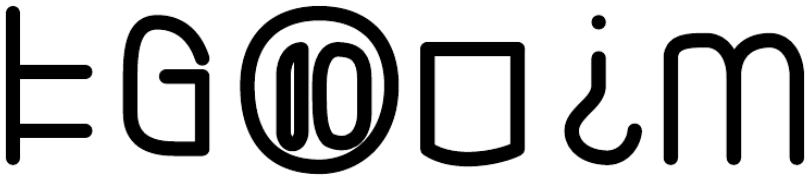
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E S D d i m



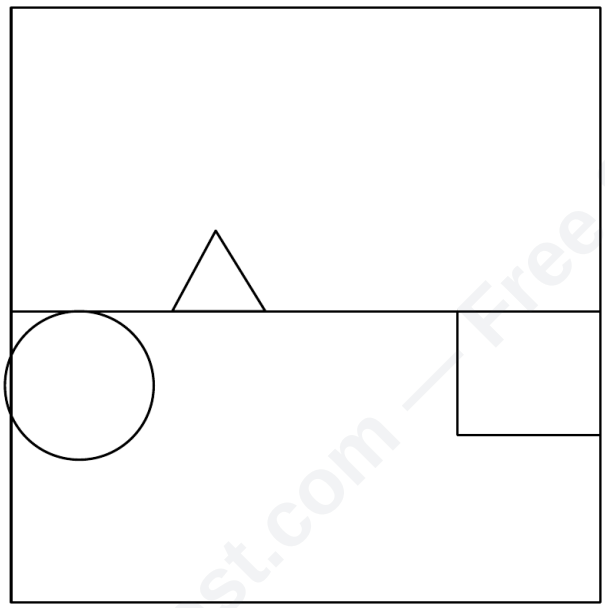
(d)

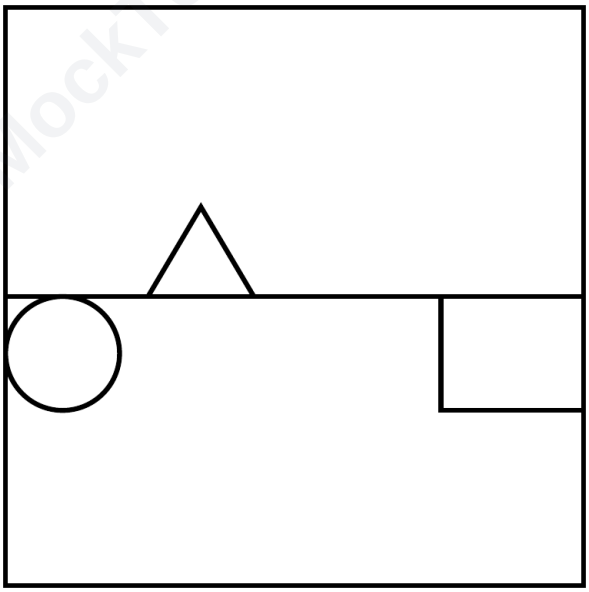




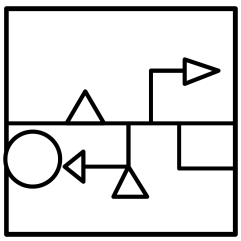
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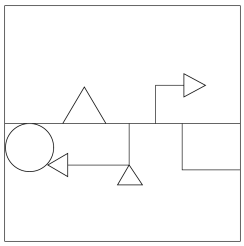
Q40. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).





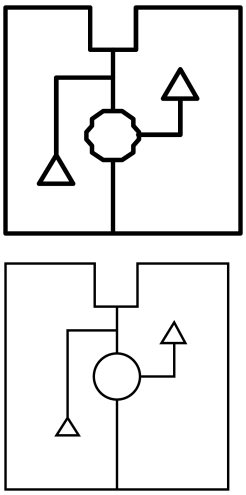
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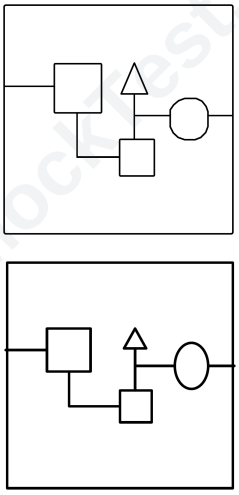


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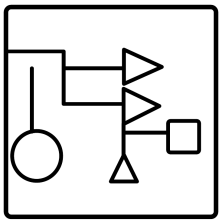
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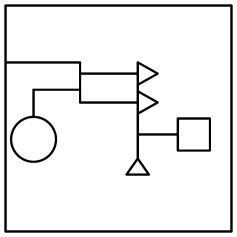


(c)



(d)





SESSION 2

Q41. The Thermohaline Circulation directly influences which of the following crucial environmental factors all over the world?

(a) Natural resources

(b) The climate

(c) Pollution in the air

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(d) The landforms

Q42. Name the social reformer of Bengal who played crucial role in the enactment of the Hindu Widows' Remarriage Act 1856.

(a) Ishwarchandra Vidyasagar
(b) Rabindranath Tagore
(c) Satyendra Nath Bose
(d) Swami Vivekananda

Q43. Teejan Bai is associated with which of the following dances?

(a) Bagurumba
(b) Garba
(c) Jhumar
(d) Pandvani

Q44. Several biological processes are catalysed by enzymes. Digestive enzymes are present in which part of the cell?

(a) Ribosome
(b) Golgi complex
(c) Mitochondria
(d) Lysosomes

Q45. What is the name of the process of organic matter being broken down into simpler compounds by decomposers?

(a) Decomposition
(b) Photosynthesis
(c) Respiration
(d) Fermentation

Q46. Which of the following is NOT true regarding the Swaran Singh Committee?

(a) The committee was established during Indira Gandhi's Government
(b) The 42^(nd) Constitutional Amendment Act was based on its recommendations.
(c) It suggested nine items as duties of the citizens.
(d) The Swaran Singh Committee was set up in 1976.

Q47. Chip, Condor, Duff and Driver are some of the terms used in _____.

(a) Horse Polo
(b) Golf
(c) Chess
(d) Swimming

Q48. Which ruler succeeded Chandragupta Maurya in 297 BCE?

(a) Kumaragupta
(b) Bindusara
(c) Ashoka
(d) Kanishka

Q49. According to the Census of India 2011, which state has the highest sex ratio?

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

Q50. In 2023, the Government of India proposed 'Amrit Dharohar Scheme' to be implemented over the next _____ to encourage optimal use of wetlands and enhance bio-diversity, carbon stock, ecotourism opportunities and income generation for local communities.

(a) Seven Years
(b) Two Years

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(c) Three Years
(d) Five Years

Q51. In which of the following books has the author described the horrors of the holocaust and the Second World War?
(a) The Diary of a young girl
(b) I know why the caged bird sings
(c) Dreams from my father
(d) Long walk to freedom

Q52. Who among the following received the Sangeet Natak Akademi Amrit Award 2022 for Kuchipudi dance?
(a) Kumkum Lal
(b) Makhan Chandra Borah
(c) Charan Girdhar Chand
(d) Smita Rajeshbhai Shastri

Q53. Among the following Para athletes, which athlete is associated with the High Jump event?
(a) Avani Lekhara
(b) Deepa Malik
(c) Ajeet Singh Yadav
(d) Mariyappan Thangavelu

Q54. M Balamuralikrishna was awarded Padma Vibhushan in 1991 for which of the following fields?
(a) Hindustani music
(b) Jazz music
(c) Carnatic music
(d) Folk music

Q55. The Union Territory of Puducherry is located in which of the following river basins?
(a) Yamuna
(b) Kaveri
(c) Mahanadi
(d) Krishna

Q56. 0.26 g of an organic compound gave 0.13 g of water after complete combustion. The percentage composition of hydrogen is _____
(a) 11.11%
(b) 52.00%
(c) 5.78%
(d) 4.58%

Q57. Which house is considered as lower house in State Legislature?
(a) Vidhan Parishad
(b) Lok Sabha
(c) Rajya Sabha
(d) Vidhan Sabha

Q58. Who built an elegant two-storey 'ship palace' between two reservoirs named Jahaz Mahal?
(a) Sultan Muhammad Bin Tughlaq
(b) Sultan Ghiyasuddin Khilji
(c) Sultan Alauddin Khilji
(d) Sultan Ghiyasuddin Tughlaq

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Q59. Who among the following was the Sultan of Delhi when Bahmani kingdom was founded in 1347 CE?

(a) Mubarak Shah Khalji
(b) Bahlul Lodi
(c) Ghiyasuddin Tughlaq
(d) Muhammad bin Tughlaq

Q60. According to Census of India 2011, in which of the following Union Territories was the sex ratio recorded at 1037 females per 1000 males?

(a) Andaman and Nicobar Islands
(b) Puducherry
(c) Chandigarh
(d) Lakshadweep

Q61. In which of the following cities of India was the first successful textile mill established?

(a) Mumbai
(b) Chennai
(c) Lucknow
(d) Kolkata

Q62. Which of the following Acts was provided for the establishment of a federal court in India?

(a) The Regulating Act of 1773
(b) The Government of India Act of 1935
(c) The Indian Councils Act of 1909
(d) The Government of India Act of 1919

Q63. Which of the following is NOT included in the national income?

(a) Income received by a person as a donation
(b) Income received by a household for the use of their entrepreneurial skill
(c) Income received by a person for the use of his capital
(d) Income received by a household for the use of their land

Q64. Jon Beel mela is held every year in which of the following states?

(a) Haryana
(b) Arunachal Pradesh
(c) Assam
(d) Telangana

Q65. Proposed in 2023-24, which section of the Income Tax Act of 1961 exempts senior citizens aged 75 years and above from filing income tax returns?

(a) Section 139A
(b) Section 234C
(c) Section 80c
(d) Section 194P

Q66. Select the most appropriate synonym of the given word.

Ephemeral

(a) Persistent
(b) Fleeting
(c) Durable
(d) Permanent

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

The arrangements of the little boy's birthday party were _____ nice. We could not help but appreciate it.

(a) little
(b) many

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(c) extremely
(d) few

Q68. Rectify the sentence by selecting the correct spelling from the options.
Despite his busy scheuduel, Rohit managed to complete the assignment on time.
(a) schedule
(b) scedhule
(c) scheudul
(d) schedeule

Q69. Select the option that can be used as a one-word substitute for the given group of words.
The method and practice of teaching
(a) Pedagogy
(b) Objective
(c) Strategy
(d) Learning

Q70. Select the most appropriate set of words to fill the blanks.
I was trying to _____ a pen to sign a form as my brother had been _____ Rupees 500 for breaking the traffic rules.
(a) lend; fined
(b) find; fined
(c) lend; find
(d) find; find

Q71. Select the most appropriate option that can substitute the underlined segment in the given sentence.
This is the old tree in the colony.
(a) oldest
(b) older
(c) most old
(d) elder

Q72. Select the INCORRECTLY spelt word.
(a) Occurrence
(b) Manoevre
(c) Consistent
(d) Embarrassment

Q73. Select the appropriate option that can substitute the underlined word to make the sentence grammatically correct.
This novel is more interesting of all in the library.
(a) most interesting
(b) the more interesting
(c) the most interesting
(d) interesting

Q74. Select the most appropriate meaning of the idiom from the options given below:
A square peg in a round hole
(a) a person who is criminal by nature
(b) a person who fits the job
(c) a person who is bankrupt
(d) a person who does not fit the job

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Q75. Select the option that can be used as one-word substitute for the given group of words

A policy that separates people on the basis of race

(a) Apartacy
(b) Apartheid
(c) Aposide
(d) Apiary

Q76. In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative.

The house seemed much far than she expected.

(a) farthest
(b) farther
(c) farer
(d) more far

Q77. Identify the ANTONYM of the word in brackets.

The athlete's (languid) performance disappointed the fans as well as coaches.

(a) Relaxed
(b) Listless
(c) Vigorous
(d) Lethargic

Q78. Correct the underlined part of the sentence.

They have a few juice in the jar.

(a) least
(b) lesser
(c) little
(d) fewer

Q79. Select the most appropriate ANTONYM of the underlined word in the given sentence.

Abby's humility towards the poor and needy people of his locality is really admirable.

(a) Arrogance
(b) Amiability
(c) Sincerity
(d) Modesty

Q80. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

While I was teaching the elder one, the younger one take an opportunity and ran away.

(a) the younger one took an opportunity and ran away
(b) the younger one will take an opportunity and ran away
(c) the younger one has taken an opportunity and ran away
(d) No substitution

Q81. Select the most appropriate meaning of the given phrase.

Feel the pinch

(a) Give pain
(b) Raise quality
(c) Experience hardship
(d) Demand something

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Q82. Select the most appropriate option that can substitute the underlined words in the given sentence.

Raman is as worse as Raju in solving mathematical problems.

(a) bad
(b) worst
(c) worsen
(d) best

Q83. Select the word that has the same meaning (SYNONYM) as the underlined word in the given sentence.

The town, where Haruki lived, stood in imminent danger of tidal waves.

(a) prominent
(b) eminent
(c) impending
(d) immaculate

Q84. Select the most appropriate option that can substitute the underlined segment in the given sentence.

This is the cheap saree in my collection.

(a) most cheapest
(b) more cheap
(c) cheapest
(d) cheaper

Q85. Select the INCORRECTLY spelt word.

(a) Detrimental
(b) Regimental
(c) Fundementel
(d) Transcendental

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.

There lived in a town in Russia a bootmaker named Martin. He lived in a small room, half sunk ___1_ the level of the street, with one window which __2_ on the street. He had lived in the same room for many years and knew many people. There was _3_ a pair of boots in the town and in the country for many miles _4_ that had not once or twice passed _5___ his hands.

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

(a) beyond
(b) inside
(c) below
(d) amidst

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

(a) opened
(b) aimed
(c) touched
(d) arrived

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

(a) hardly
(b) besides
(c) always
(d) now

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

(a) round
(b) around
(c) below
(d) above

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

(a) off
(b) through
(c) at
(d) in

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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