SSC MTS 2024 Official Paper (Held On: 22 Oct, 2024 Shift 1) (Previous Year Paper)

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

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SESSION 1

Q1. During the evening patrolling, a policeman noticed a thief snatching a lady's mobile phone at a distance of 200 m. The thief starts running at a speed of 15 km/hr. If the policeman is chasing him at a speed of 16 km/hr, then the time taken to catch the thief is:

(a) 18 minutes
(b) 12 minutes
(c) 24 minutes
(d) 30 minutes

Q2. A television costs Rs. 20,500 for a trader. He fixes its marked price as Rs. 24,000 and gives a discount of 15%.He further gives a discount of 5% for cash payment. Find his percentage of profit or loss.

(a) Gain 5 frac94%
(b) Loss 5 frac14%
(c) Gain 5 frac194%
(d) Loss 5 19/41%

Q3. The average of 42 numbers is 25 and that of other 28 numbers is 40. What is the average of all the numbers?

(a) 31
(b) 70
(c) 69
(d) 30

Q4. What sum (in Rs.) will earn a simple interest of Rs. 240 in 4 years at 8% per year rate of interest?

(a) 1000
(b) 375
(c) 1500
(d) 750

Q5. When 80% of a number is added to 80, the result is the same number. Find the number.

(a) 420
(b) 380
(c) 320
(d) 400

Q6. A cylindrical tube, which is open at both ends, is crafted from a metal. The internal diameter of the tube is 12 cm, and its length is 35 cm. The metal throughout has a thickness of 2 cm. Determine the total surface area (in cm^2) of the metal tube.

(Use π = 22/7)

(a) 3696
(b) 3256
(c) 3854

(d) 3145

Q7. The perimeter of a rhombus is 160 cm and one of its diagonals has a length 50 cm. Find the area (in cm²) of the rhombus.

(a) 280√39
(b) 300√39
(c) 250√39
(d) 175√39

Q8. The average of runs scored by a player in 22 innings is 40 runs. How many runs should he score in the 23^(rd) innings so that his average is increased by 6 runs?

(a) 148 runs
(b) 178 runs
(c) 188 runs
(d) 158 runs

Q9. In a box, Refrigerator covers and Washing Machine covers are in the ratio of 7 : 11. If the Washing Machine covers are 660, how many Refrigerator covers are there?

(a) 430
(b) 410
(c) 420
(d) 400

Q10. A mixture of 85 litres of alcohol and water contains 20% of water. How much water (in litres) must be added to the above mixture to make the water 25% of the resulting mixture?

(a) 52/3
(b) 32/3
(c) 61/3
(d) 41/3

Q11. P, Q, and R start running around a circular track and complete one round in 18, 22 and 30 seconds, respectively. In how much time will they meet again at the starting point?

(a) 16 min 30 sec
(b) 16 min 50 sec
(c) 11 min 30 sec
(d) 11 min 50 sec

Q12. Aditya bought a mobile for Rs. 21,500 and sold it for Rs. 18,500. Find the loss percentage (up to two decimal places) in the complete process.

(a) 10.69%
(b) 12.38%
(c) 13.95%
(d) 11.25%

Q13. The given table shows the number of employees in four organisations during three years.

Year / Company	2021	2022	2023
A	1560	1698	2285
B	1065	1281	1172
C	1385	1503	2100
D	1204	2146	2035

What is the average number of employees in organisation B, C and D in 2023?

(a) 1678
(b) 1898

(c) 1520
(d) 1799

Q14. The Total surface area of a right circular cone is 704 cm². If the radius of the cone is 7 cm, then the length of the slant height is:

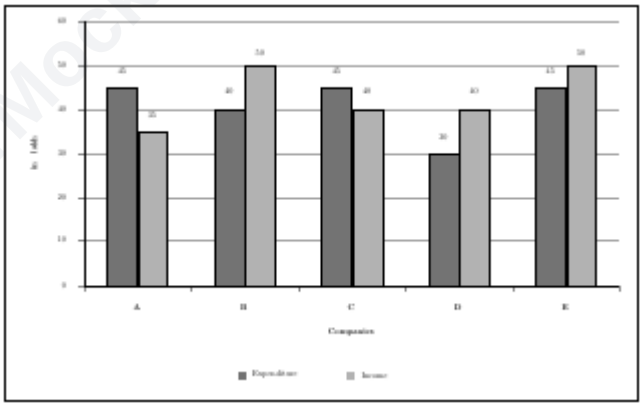
(Use π = frac227)

(a) 17.5 cm
(b) 19 cm
(c) 31.5 cm
(d) 25 cm

Q15. A borrows Rs. 7,500 for 4 years at 8% p.a. simple interest. B borrows the same amount at simple interest of 9% for the first year, 10% for the second year and 6% for the next two years. What is simple interest paid by A and B in total (in Rs.)?

(a) 4,275
(b) 4,175
(c) 4,725
(d) 4,545

Q16. The given bar given shows the income and expenditure (in Rs. lakh) of 5 companies (A, B, C, D, and E) in the year 2022. Study the graph and answer the question that follows.



Which company earned the maximum percentage profit in the year 2022?

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

Q17. Find the HCF of the numbers 216, 360 and 504.

(a) 72
(b) 108
(c) 252
(d) 180

Q18. There are two types of dal. Type 1 dal costs Rs. 100 per kg and type 2 dal costs Rs. 120 per kg, respectively. If both the dal are mixed in the ratio 2 : 3, find the cost of the mixed dal per kg.

(a) Rs. 110
(b) Rs. 115
(c) Rs. 114
(d) Rs. 112

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Q19. Find the simple interest (in Rs.) on Rs. 3000 as a sum borrowed at 9% per year rate of interest for 4 years.

(a) 1120
(b) 1020
(c) 1080
(d) 1040

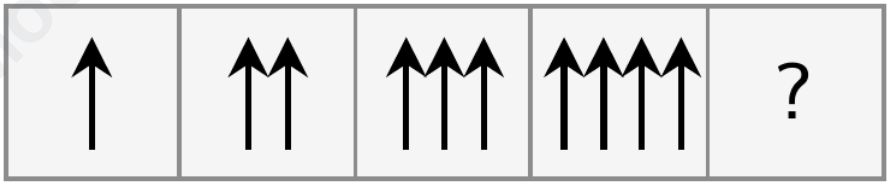
Q20. A refrigerator manufacturer earns 15% profit by selling each refrigerator for Rs. 17,250. If the production cost is increased by 18%, then what should be the new selling price of a refrigerator set so as to gain a profit of 18%?

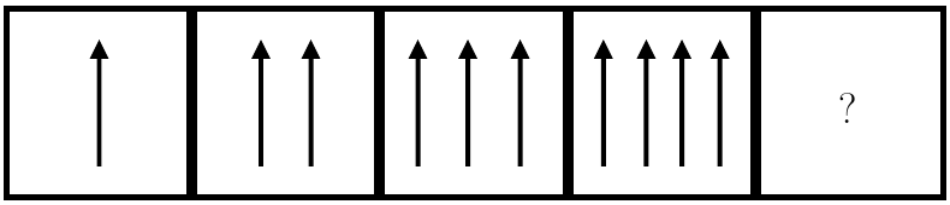
(a) Rs. 20,886
(b) Rs. 34,086
(c) Rs. 19,094
(d) Rs. 21,032

Q21. UKCT is related to QGYP in a certain way based on the English alphabetical order. In the same way, LPBR is related to HLXN. To which of the following is DGYJ related, following the same logic?

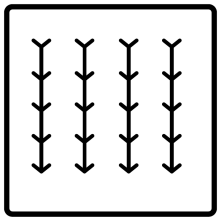
(a) ZCUF
(b) XBUF
(c) ZBSF
(d) YCSE

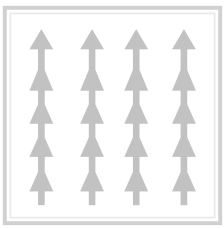
Q22. Identify the figure given in the options which when put in place of (?) will logically complete the series.





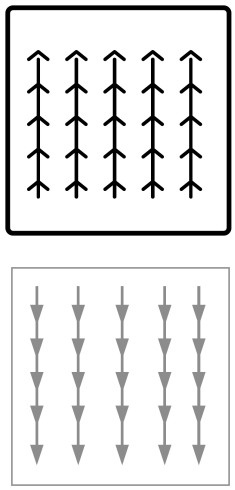
(a)



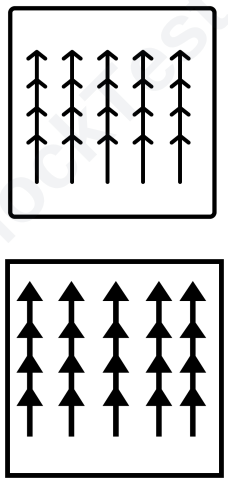


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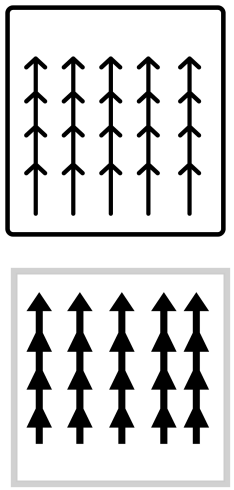
(b)



(c)

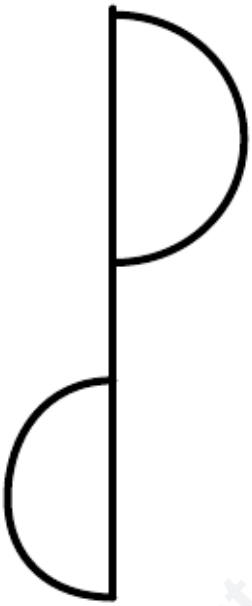


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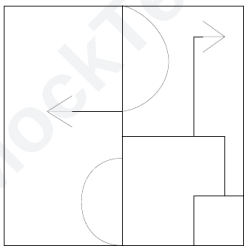


Q23. Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

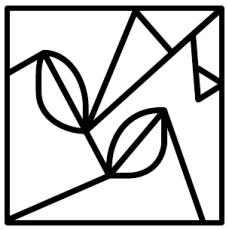
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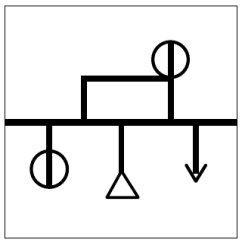
(a)



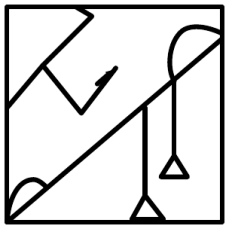
(b)



(c)



(d)



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Q24. In a certain code language, ‘SANE’ is coded as ‘5168’ and ‘GOAT’ is coded as ‘6437’.What is the code for ‘A’ in the given code language?

(a) 3
(b) 1
(c) 5
(d) 6

Q25. 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, 24, 12)

(16, 20, 5)

(a) (21, 88, 16)
(b) (17, 75, 18)
(c) (13, 24, 8)
(d) (19, 57, 12)

Q26. What should come in place ofthe question mark (?) in the given series?

5, 15, 45, 135, 405, ?

(a) 1215
(b) 2255
(c) 1315
(d) 1125

Q27. I, J, K, L, M, N and O are sitting around a circular table facing the centre (but not necessarily in the same order). J sits fourth to the right of I. K sits to the immediate right of J. L sits to the immediate right of I. N sits fourth to the left of M. M is not an immediate neighbour of K. How many people sit between O and N when counted from the right of O?

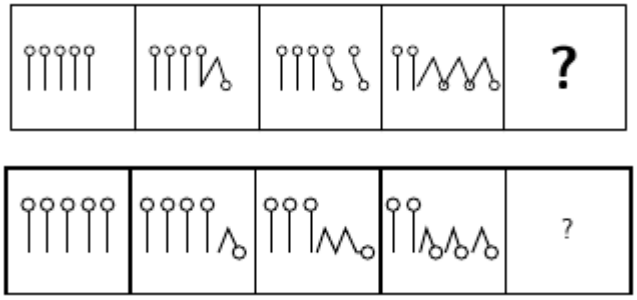
(a) 2
(b) 4
(c) 5
(d) 3

Q28. What will come in place of the question mark (?) in the following equation if ‘+’ and ‘×’ are interchanged and ‘−’ and ‘÷’ are interchanged?

14 ÷ 12 − 2 + 2 × 16 = ?

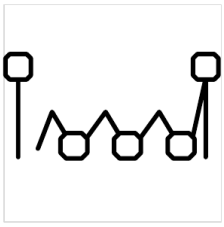
(a) 18
(b) 42
(c) 24
(d) 20

Q29. Identify the figure given in the options which when put in place of '?' will logically complete the series.

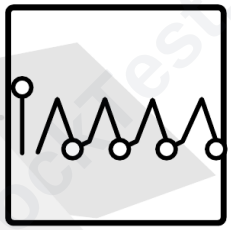


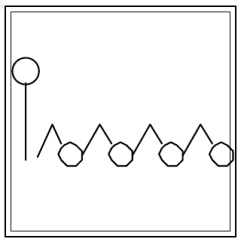
(a)



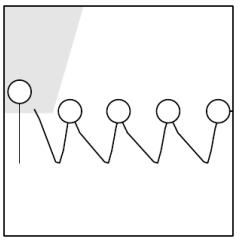


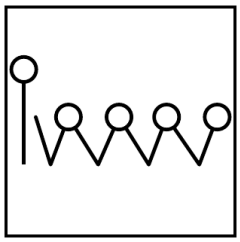
(b)



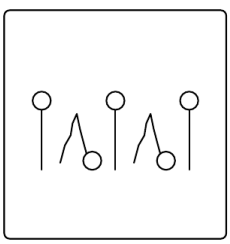


(c)

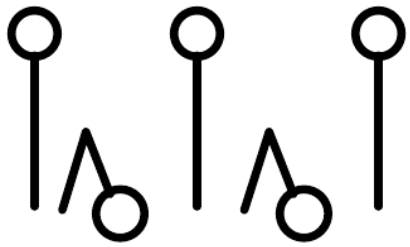




(d)



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Q30. This question has two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions logically follow(s) from the given statements.

Statements:

All jugs are taps.

Some taps are hats.

Conclusions:

(I) Some taps are jugs.

(II) All hats are jugs.

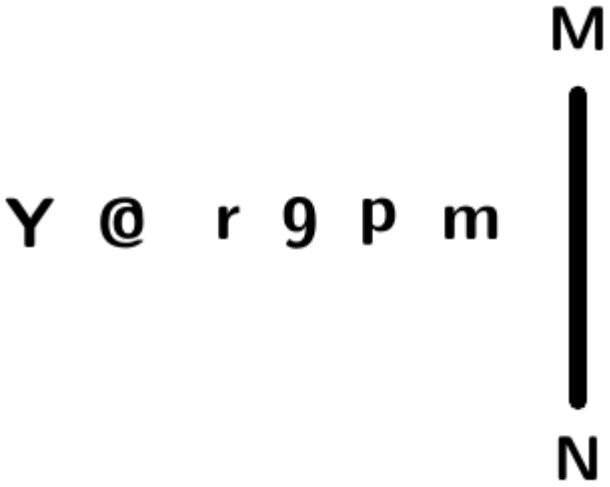
(a) Only conclusion (I) follows
(b) Only conclusion (II) follows
(c) Neither conclusion (I) nor (II) follows
(d) Both conclusion (I) and (II) follow

Q31. Find the missing term in the below series:

B2, C3, E5, G7, __, M13, Q17.

(a) I10
(b) K11
(c) J10
(d) H7

Q32. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



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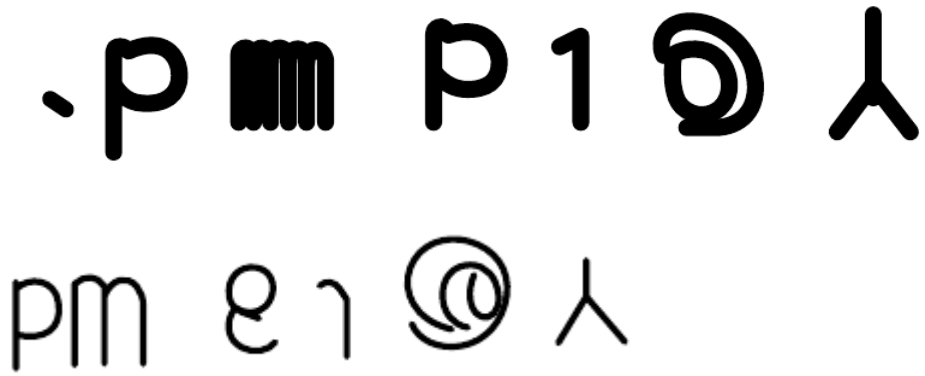
(a)



(b)



(c)



(d)



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Q33. In a certain code language, 'LIFE' is coded as '5289' and 'FINE' is coded as '9758'. What is the code for 'N' in the given code language?

(a) 5
(b) 8
(c) 7
(d) 2

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:

Some potatoes are tomatoes.

No tomato is an onion.

Conclusions:

(I) Some tomatoes may be potatoes.

(II) No potato is an onion.

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

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

3 – 2 ÷ 8 × 4 + 2 = ?

(a) 8
(b) 5
(c) 14
(d) 17

Q36. 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.)

(5, 40, 7)

(12, 65, 5)

(a) (3, 14, 3)
(b) (6, 24, 2)
(c) (2, 10, 3)
(d) (9, 41,5)

Q37. DG 25 is related to FH 21 in a certain way. In the same way, GI 19 is related to IJ 15. To which of the following is MI 24 related, following the same logic?

(a) OK 20
(b) OJ 20
(c) PJ 20
(d) PO 20

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Q38. In a certain code language, ‘COPY’ is coded as ‘2465’ and ‘PLAN’ is coded as ‘3759’. What is the code for ‘P’ in the given code language?

(a) 5
(b) 6
(c) 7
(d) 3

Q39. In a certain code language, ‘MALT’ is coded as ‘6284’ and ‘TUNE’ is coded as ‘9758’. What is the code for ‘T’ in that language?

(a) 8
(b) 4
(c) 5
(d) 9

Q40. Seven people A, B, C, D, E, F and G are sitting around a circular table, facing the centre (but not necessarily in the same order). Exactly three people are sitting between A and B when counted from the right of A. Exactly two people are sitting between D and G when counted from the left of G. B is not an immediate neighbour of G. D is sitting to the immediate left of B. Exactly three people are sitting between E and F when counted from the right of E. B and E are not immediate neighbours. How many people are sitting between E and G when counted from the right of E?

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

SESSION 2

Q41. 0.25 g of an organic compound, on treatment with fuming nitric acid followed by $AgNO_3$, gave 0.22 g of AgBr. The percentage of bromine in the compound is _____.

(a) 34.04%
(b) 88.00%
(c) 37.45%
(d) 50.00%

Q42. Rani ki Vav is a UNESCO world heritage monument, situated in which of the following states?

(a) Haryana
(b) Gujarat
(c) Maharashtra
(d) Karnataka

Q43. Bathukamma festival is celebrated in which of the following states?

(a) Uttar Pradesh
(b) Telangana
(c) Manipur
(d) Chhattisgarh

Q44. What is the collection of Vedic hymns or ‘mantras’ called?

(a) Samhita
(b) Smriti
(c) Shruti
(d) Upanishad

Q45. Usha Barle, who won Padma Shri 2023, is popularly associated with which genre of music?

(a) Lavani
(b) Pandwani
(c) Panihari

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(d) Kajari

Q46. In which of the following years India hosted the Women's Asia Cup ODI Cricket?

(a) 2005
(b) 2007
(c) 2004
(d) 2006

Q47. Alarmel Valli was associated with which of the following dances?

(a) Odissi
(b) Bharatanatyam
(c) Kathak
(d) Manipuri

Q48. When protein-rich glutinous egg white is heated, it turns to solid white due to:

(a) Protein Denaturation
(b) Emulsification
(c) Fermentation
(d) Gluten Formation

Q49. In which of the following states are the Nor Westers known as 'Bardoisila'?

(a) Bihar
(b) Assam
(c) Odisha
(d) Goa

Q50. Which of the following statements is/are correct?

A) Balshastri Jambhekar started the first Anglo- Marathi newspaper - 'Darpan', in 1832.
B) He is remembered as the father of Marathi journalism.
C) Balshastri Jambhekar published the first Marathi monthly magazine - 'Digdarshan' in 1840.

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

Q51. Identify the correct statement with reference to the Padma awards.

(a) The Padma award can be used as a suffix or prefix to the awardees' name
(b) The total number of Padma awards to be given in a year should not more than 150.
(c) The Padma Awards are given annually.
(d) The names of the awardees are never published in the Gazette of India.

Q52. Which of the following is NOT a component of revenue receipt?

(a) Amount borrowed from World Bank
(b) GST
(c) Fees paid for the registration of property
(d) Grant received by UNESCO

Q53. According to the Census of India 2011, what was the population growth rate in Kerala?

(a) 4.91%
(b) 15.01%
(c) 8.10%
(d) 12.65%

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Q54. In April 2023, who was appointed as the chairman of the National Technical Research Organisation (NTRO) by the centre?

(a) Arvind Kumar
(b) Arun Sinha
(c) Anil Dhasmana
(d) Ajit Doval

Q55. Which of the following is an example of the first garden-tomb on the Indian subcontinent?

(a) Tomb of Tansen
(b) Safdarjung's tomb
(c) Humayun’s tomb
(d) Tomb of Itimad-ud-Daulah

Q56. According to the Census 2011, what was the annual population growth rate of India (in percentage)?

(a) 1.97%
(b) 2.16%
(c) 2.22%
(d) 1.64%

Q57. The Indian Forest Service was created under the All India Service Act, 1951 in _____.

(a) 1954
(b) 1966
(c) 1060
(d) 1957

Q58. Organisation of agriculture and animal husbandry is included in which of the following Articles of the Indian Constitution?

(a) Article 48
(b) Article 47
(c) Article 46
(d) Article 45

Q59. In which of the following Indian states is the M.A. Chidambaram Stadium located?

(a) West Bengal
(b) Kerala
(c) Karnataka
(d) Tamil Nadu

Q60. The famous English novel 'Em and the Big Hoom' is written by:

(a) Esther David
(b) Amitav Ghosh
(c) Jerry Pinto
(d) Shashi Tharoor

Q61. Which of the following is NOT an element of weather?

(a) Temperature
(b) Humidity
(c) Plants
(d) Rainfall

Q62. Which of the following organisms is used in bread and alcohol industries?

(a) Clostridium
(b) Nitrobacter
(c) Yeast
(d) Penicillium

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Q63. In Union Budget 2023-24, annual production of 5 MMT under Green Hydrogen Mission is to be targeted by the year _____ to facilitate transition of the economy to low carbon intensity.

(a) 2032
(b) 2030
(c) 2023
(d) 2027

Q64. The Prime Minister in India is _____.

(a) a nominal executive
(b) the real executive
(c) the Supreme Commander of Armed Forces
(d) the head of the judiciary

Q65. According to the Census of India 2011, what is the share of workforce engaged in the agriculture sector?

(a) 54.6%
(b) 65.3%
(c) 48.9%
(d) 45.8%

Q66. Select the correct spelling to fill in the blank.

Wedding is an auspicious _____ for all.

(a) occassion
(b) occation
(c) occasion
(d) ocassion

Q67. Select the most appropriate synonym of the given word.

Commence

(a) Subvert
(b) Exert
(c) Start
(d) Escort

Q68. In the given sentence, one of the four underlined words is incorrectly spelt. Identify the INCORRECTLY spelt word.

She dabbled in drawing and painting, but scalpture was her favourite medium.

(a) drawing
(b) favourite
(c) dabbled
(d) scalpture

Q69. Select the most appropriate option to fill in the blank.

I couldn't believe how _____ the math problem was; it took me hours to solve it.

(a) good
(b) complicated
(c) simply
(d) easily

Q70. Read the following sentence and select its future tense form from the options given below:

Sarah and Fidaa entered into an agreement to share the resources that are currently accessible.

(a) Sarah and Fidaa are entering into an agreement to share the resources that are currently accessible.
(b) Sarah and Fidaa will enter into an agreement to share the resources that are currently accessible.
(c) Sarah and Fidaa had entered into an agreement to share the resources that are currently accessible.
(d) Sarah and Fidaa were entered into an agreement to share the resources that are currently accessible.

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Q71. Select the most appropriate option to fill in the blanks.

When Mr. Bhanot was told a few years back that he needed to lose ___ or face health problems, he transformed his life with the ___ of a personal trainer.

(a) weight, help
(b) money, instructions
(c) wait, assistance
(d) patience, guidance

Q72. Select the most appropriate option to fill in the blank.

Confession is good for the soul _____ after the soul has been claimed.

(a) since
(b) though
(c) still
(d) even

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

She was a _____, ____ _____astronaut.

(a) smart, tall, Indian
(b) tall, smart, Indian
(c) smart, Indian, tall
(d) tall, Indian, smart

Q74. Select the most appropriate ANTONYM of the given word.

Callous

(a) Augment
(b) Desolate
(c) Tender
(d) Beguile

Q75. Select the most appropriate synonym for the given word.

Species

(a) Whole
(b) Type
(c) Detail
(d) Multiply

Q76. Select the most appropriate ANTONYM of the given word.

Tranquil

(a) Composed
(b) Serene
(c) Shabby
(d) Unquiet

Q77. Identify the word with a spelling error in the following sentence. Select the option that correctly rectifies the error.

In Shakespeare's play 'Hamlet', Hamlet's flaw is defined as procrustineition.

(a) pracrostination
(b) procristineition
(c) procrustination
(d) procrastination

Q78. In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative.

Mary is the quieter student of the class.

(a) quiet

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(b) most quiet
(c) more quiet
(d) quietest

Q79. Select the sentence with the most appropriate degree of adjective.
(a) She is the talent of all musicians in the orchestra.
(b) She is the talentedest musician in the orchestra.
(c) She is more talented musician in the orchestra.
(d) She is the most talented musician in the orchestra.

Q80. Parts of the following sentence have been given as options. Select the option that contains a grammatical error.
Ms. Malathi is old much to join a college now.
(a) a college now
(b) to join
(c) Ms. Malathi is
(d) old much

Q81. Select the most appropriate meaning of the given idiom.
Let the cat out of the bag
(a) To buy a cat and a bag
(b) To reveal a secret
(c) To not allow a cat into the bag
(d) To release a cat out of a bag

Q82. Based on the situation in the sentence, choose the most appropriate idiom to fill in the blank.
You cannot _____ before replicating your successes and achievements multiple times; otherwise, people will deem your success a stroke of dumb luck.
(a) play devil's advocate
(b) sit on the fence
(c) cut to the chase
(d) rest on your laurels

Q83. Select the correct indefinite article to fill in the blank.
My neighbour is _____ passionate photographer.
(a) one
(b) an
(c) a
(d) the

Q84. Select the most appropriate ANTONYM of the bracketed word in the sentence given below.
Surrounded by lush greenery, the house stood _____ (submissively) atop a hill.
(a) Sturdily
(b) Deftly
(c) Magically
(d) Proudly

Q85. Select the most appropriate option to substitute the underlined segment in the given sentence.
Shebna decided to take a break in social media, but she found it difficult to disconnect completely.
(a) a break of social media
(b) a break from social media
(c) a break up social media
(d) a break down social media

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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.

Education is fundamental for achieving full human potential, developing an equitable and (1)_____ society, and promoting national development. Providing universal (2)_____ quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. Universal high-quality education is the best way (3)_____ for developing and maximising our country's rich talents and resources for the good (4)_____ the individual, the society, the country and the world. India (5)_____ the highest population of young people in the world over the next decade, and our ability to provide high-quality educational opportunities to them will determine the future of our country.

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

(a) just
(b) much
(c) such
(d) more

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

(a) access at
(b) access to
(c) access from
(d) access for

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

(a) outcome
(b) output
(c) result
(d) forward

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

(a) of
(b) from
(c) at
(d) for

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

(a) will have
(b) were having
(c) might had
(d) can has

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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