SSC CHSL Tier-1 2023: Official Paper (Held On: 07 Aug, 2023 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2023 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Which of the following numbers will replace the question mark (?) in the given series?

233, 237, 245, 257, 273, ?

(a) 293
(b) 303
(c) 290
(d) 305

Q2. 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 tickets are clocks.

All buttons are tickets.

No stamps are clocks.

Conclusions:

(I) No tickets are stamps.

(II) Some buttons are clocks.

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

Q3. Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

HP 16, ?, NV 64, QY 100, TB 144

(a) JS 36
(b) JR 36
(c) KR 49
(d) KS 36

Q4. What should come in place of? in the given series?

40 39 37 34 30 ?

(a) 24
(b) 25
(c) 27
(d) 21

Q5. What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

35 - 28 ÷ 7 + 322 × 23 = ?

(a) 217
(b) 233
(c) 209
(d) 221

Q6. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

(NOTE: Operations should be performed on the whole numbers, without breaking down the mumbers 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.)

15 : 126

27 : 234

31 : 270

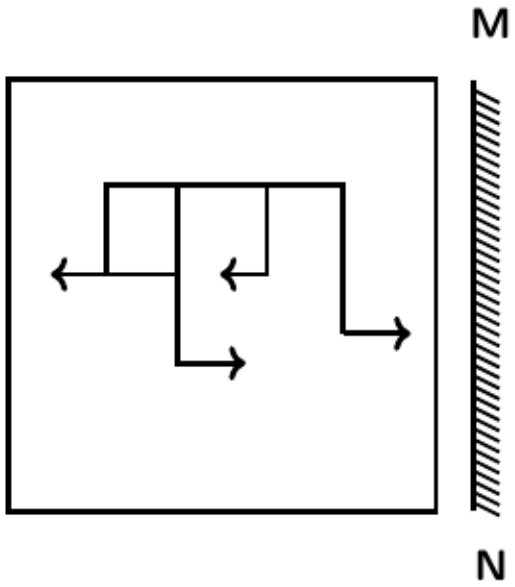
17 : 162

(a) 17 : 162
(b) 15 : 126
(c) 27 : 234
(d) 31 : 270

Q7. Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

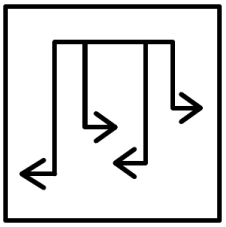
(a) BDG
(b) MOR
(c) PRU
(d) GJM

Q8. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

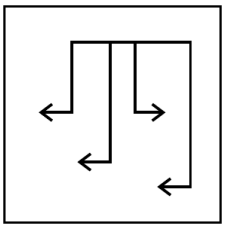


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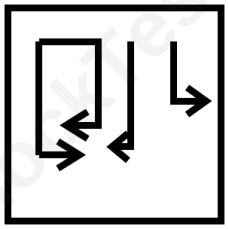
(a)



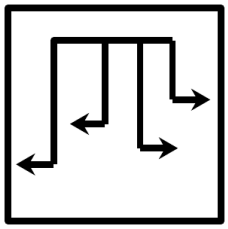
(b)



(c)



(d)



Q9. What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

8 ÷ 512 × 64 + 33 - 95 = ?

(a) 116
(b) 75
(c) 216
(d) 126

Q10. NQSP is related to TWYV in a certain way based on the English alphabetical order. In the same way, EHJG is related to KNPM. To which of the following is LOQN related to, following the same logic?

(a) RUVT
(b) RUWT
(c) RWXT
(d) RVWT

Q11. Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order:

CYF, IHI, ?, UZO, AIR

(a) OQL
(b) UQM
(c) UQL

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(d) OQM

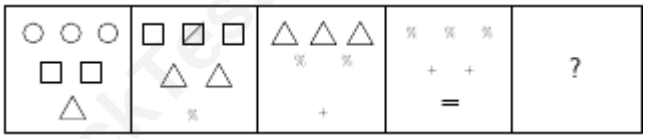
Q12. The position of how many letters will remain unchanged if each of the letters in the word BACKING is arranged in alphabetical order?

(a) Two
(b) One
(c) Three
(d) None

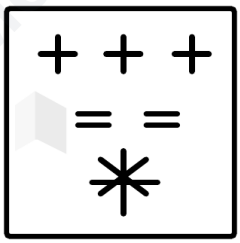
Q13. 23 is related to 74 following a certain logic. Following the same logic, 13 is related to 44. To which of the following is 18 related to, following the same logic?

(a) 75
(b) 67
(c) 59
(d) 64

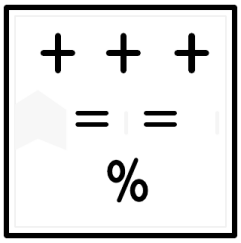
Q14. Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



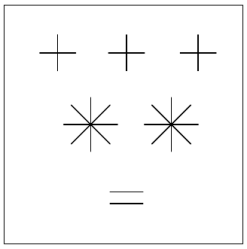
(a)



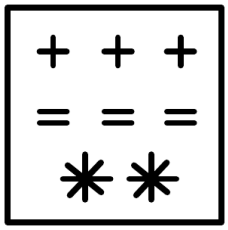
(b)



(c)



(d)



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Q15. Select the number pair in which the numbers are related in the same way as are the numbers of the given number pairs.

(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/deleting/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.)

6 : 31

8 : 59

(a) 7 : 42
(b) 9 : 75
(c) 25 : 620
(d) 12 : 140

Q16. Q is the brother of L. L is the sister of N. N is the father of R. R is married to P. P is the brother of T. T is the mother of X. Y is the daughter of R.

How is Y related to T?

(a) Daughter's daughter
(b) Brother's daughter
(c) Daughter
(d) Sister's daughter

Q17. What should come in place of ? in the given series based on the English alphabetical order?

FNL CRI ZVF WZC ?

(a) REA
(b) TDZ
(c) QEZ
(d) SDA

Q18. 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)(s)(s)(s) from the statements.

Statements:

All rocks are mountains.

All stones are pebbles.

Some pebbles are mountains.

Conclusions:

(I) Some rocks are stones.

(II) No pebbles are rocks.

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

Q19. In a certain code language, 'HALLUCINATED' is written as 'IZMKVBJMBSFC' and 'PURIFICATION' is written as 'QTSHGHDZUHPM'. How is 'ABBREVIATION' written in the given language?

(a) BACQFUJZUHPM
(b) BACQDWJZUHPM
(c) BACSFUIZUHPM
(d) BCCQFWJZUHPM

Q20. What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

24 + 4 - 9 × 3 ÷ 6 = ?

(a) 38

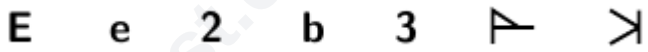
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(b) 29
(c) 42
(d) 36

Q21. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



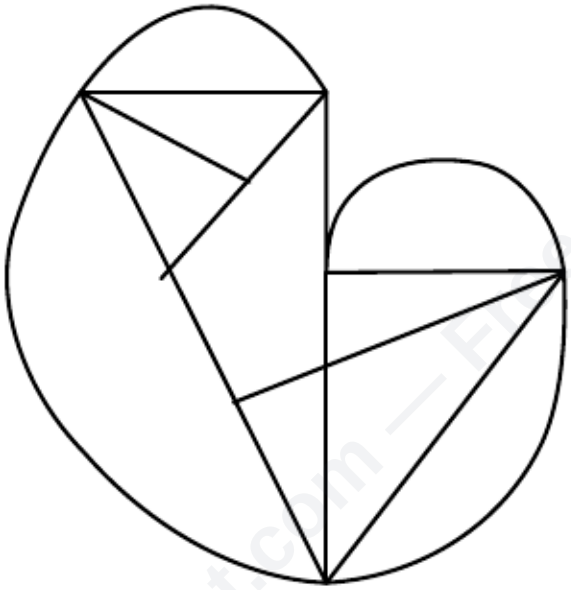
Q22. In a certain code language, 'it's his turn' is written as 'hg mp sq' and 'turn your back' is written as 'sq Ir zn'. How will 'turn' be written in the given language?

(a) Zn
(b) hg
(c) Ir
(d) Sq

Q23. DHMN is related to DMNH in a certain way based on the English alphabetical order. In the same way, PTSQ is related to PSQT. To which of the following is JLTA related to following the same logic?

(a) JTAL
(b) ATLJ
(c) LTJA
(d) JATL

Q24. How many triangles are there in the given figure?



(a) 10
(b) 12
(c) 8
(d) 9

Q25. If 15 January 1997 is Wednesday, then what will be the day of the week on 5 January 2000?
(a) Friday
(b) Sunday
(c) Wednesday
(d) Thursday

GENERAL INTELLIGENCE

Q26. Which of the following options is correct for Coulomb's law?
(a) Valid for both point and distributed charges
(b) Valid for only distributed charge
(c) Valid for only point charge
(d) Valid for neither point charge nor distributed charge

Q27. In which city was the SEWA Cooperative Bank first initiated in 1974?
(a) Jaipur
(b) Lucknow
(c) Ahmedabad
(d) Bhopal

Q28. Who was appointed Chief Justice of the Calcutta High Court in May 2023?
(a) Debasish Kar Gupt
(b) Sandeep Mehta
(c) T. S. Sivagnanam
(d) Prakash Shrivastava

Q29. Which ecologist showed in a long-term experiment on outdoor plots that biodiversity is of central importance to the productivity, stability, resistance to the invasion of ecosystems and fertility of their soils?
(a) Karl Mobius
(b) David Tilman
(c) Herbert Spencer
(d) Edward Osborne Wilson

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Q30. As per the Census of 2011, the literacy rate of India is _____.

(a) 74.04%
(b) 74.60%
(c) 74.80%
(d) 74%

Q31. The second G20 Health Ministers Meeting (held in October 2022), which was addressed by Dr Mansukh Mandaviya, Union Minister for Health and Family Welfare, was held in:

(a) Kathmandu, Nepal
(b) New Delhi, India
(c) Bali, Indonesia
(d) Thimpu, Bhutan

Q32. In the FINA World Swimming Championships (25m) 2022, which player set a national record in 100 m breaststroke?

(a) Chahat Arora
(b) Sangeeta Puri
(c) Dolly Nazir
(d) Arati Saha

Q33. With regard to the Currency Deposit Ratio (CDR), all of the following is true, EXCEPT:

(a) It depends on seasonal pattern of expenditure.
(b) It is a behavioural parameter.
(c) During festive season the CDR typically declines.
(d) It reflects people's preference for liquidity.

Q34. The government scheme, Pradhan Mantri Fasal Bima Yojana aims for crop insurance service for farmers. This type of government efforts falls under _____ of the Directive Principles of the Indian Constitution.

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

Q35. Identify the true statement.

(a) If real GDP is 240 and price index is 120, nominal GDP is 200.
(b) If real GDP is 500 and price index is 200, nominal GDP is 250.
(c) If real GDP is 500 and price index is 200, nominal GDP is 700.
(d) If real GDP is 240 and price index is 120, nominal GDP is 288.

Q36. Match the items is List I with those in List II.

	Measure of National Income		**Formula**
i.	GNP	a.	GNP - Depreciation
ii.	NNP	b.	C + I + G + Net exports
iii.	GDP	c.	GDP - Depreciation
iv.	NDP	d.	GDP + Net factor income from abroad

(a) i - b, ii - d, iii - a, iv - c
(b) i - a, ii - c, iii - d, iv - b
(c) i - d, ii - a, iii - b, iv - c
(d) i - c, ii - b, iii - d, iv - a

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Q37. Oxolane is a synonym of which compound having the molecular formula (CH2)3CH2O?

(a) Thiophene
(b) Tetrahedrane
(c) Tetrahydrofuran
(d) Tropolone

Q38. Who among the following signed a Tripartite treaty on behalf of the British Government to interfere in the affairs of Afghanistan?

(a) Lord Mayo
(b) Lord Auckland
(c) Lord Wellesly
(d) Lord Canning

Q39. Ebony, mahogany, and rosewood trees are part of which type of forest?

(a) Temperate forest
(b) Tropical deciduous forest
(c) Tropical evergreen forest
(d) Alpine vegetation

Q40. Consider the following statements in context to Dollu Kunitha dance. Select the correct statements.

a) It is a popular dance of Karnataka.
b) Drums are adorned with colourful clothes.
c) Religious and battle fervor songs are sung.

(a) Only a
(b) a, b, c
(c) Only a, b
(d) Only b, c

Q41. Who among the following was a popular music director in India?

(a) Birju Maharaj
(b) Bappi Lahiri
(c) Kaifi Azmi
(d) Anjaan

Q42. The appeal 'How's that?' is associated with _____.

(a) Badminton
(b) Volleyball
(c) Hockey
(d) Cricket

Q43. In 1950, which Russian astronomer revised the 'nebular hypothesis', proposing that the sun is surrounded by a solar nebula consisting mainly of hydrogen and helium as well as dust?

(a) Viktor Safronov
(b) George Gamow
(c) Naum Idelson
(d) Otto Schmidt

Q44. Ranjumoni Saikia won the Sangeet Natak Akademi Award of 2019 for which dance form?

(a) Sattriya
(b) Odissi
(c) Bharatanatyam
(d) Chhau

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Q45. Which Article of the Indian Constitution mentions that laws that are inconsistent with or in derogation of any of the fundamental rights shall be void?

(a) Article 15
(b) Article 14
(c) Article 16
(d) Article 13

Q46. Which of the folowing honours did Manisha Ramadass receive in 2022?

(a) Para Badminton Pair of the year by the World Badminton Federation (BWF)
(b) Female player of the year by Government of India
(c) Most Improved Player of the year by Sports Authority of India (SAI)
(d) Best Female Para Badminton Player of the year by the World Badminton Federation (BWF)

Q47. Which of the following agencies has undertaken the Golden Quadrilateral project?

(a) National Highways and Infrastructure Development Corporation Limited
(b) Indian Roads Construction Corporation
(c) National Highways Authority of India
(d) Border Road Organisation

Q48. Indian festival Dussehra is a famous celebration that takes place at which of the following?

(a) Mysore Palace
(b) Nizam Palace
(c) Mayurbhanj Palace
(d) Jaipur Palace

Q49. Who among the following rulers invaded Malaya to liberate their trade with China?

(a) Pallava
(b) Chola
(c) Chalukya
(d) Rashtrakuta

Q50. Which of the following is NOT one of the factors that has contributed towards localisation of the cotton textile industry in India?

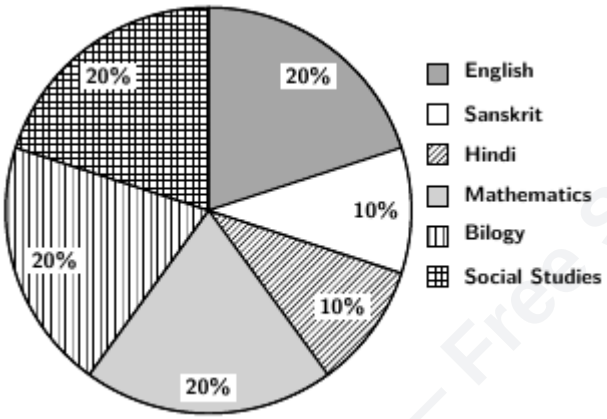
(a) Dry climate
(b) Accessible port facilities
(c) Availability of labour
(d) Availability of raw cotton

QUANTITATIVE APTITUDE

Q51. Study the given pie-chart and answer the question that follows.

Percentage-wise distribution of teachers in six different subjects in a school is given in the pie-chart. The total number of teachers is 600. The ratio of male and female teachers is 3 : 1.

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Find the ratio of teachers in Sanskrit and Hindi to teachers in Mathematics and Biology.

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

Q52. If the radius of a circle is 8 cm, then find the length of its largest chord.

(a) 16 cm
(b) 64 cm
(c) 8 cm
(d) 4 cm

Q53. Find the value of sin 60° sec 30° + tan 45° cos 0° + sec 60° sin 30°.

(a) 0
(b) 3
(c) 1
(d) 2

Q54. Rumi used to save 20% of her income. If her income went up by 30%, while her expenditure went up by 40%, her nominal savings went down by Rs. 750. Find Rumi's initial income (in Rs.).

(a) 36,000
(b) 37,500
(c) 35,000
(d) 38,500

Q55. If $\sin\theta.\sin 45° = \sin 30°$ and θ is an acute angle, then 2θ is equal to:

(a) 45°
(b) 0°
(c) 30°
(d) 90°

Q56. Akhilesh invested a certain sum which amounted to Rs. 82,000 in 2 years at 6% per annum compound interest, compounded annually. What was the sum invested (in Rs.) by Akhilesh? (round off to the nearest integer)

(a) 73,980
(b) 72,680
(c) 72,980
(d) 70,980

Q57. A jar contains 35% syrup in the mixture of syrup and water. A part of this mixture is replaced by another mixture containing 20% syrup. Now, in the new mixture, the percentage of syrup is found to be 24%. What is the ratio in which these mixtures were mixed to obtain the new mixture?

(a) 3 : 14

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

Q58. The radius of a circle is 21 cm. What will be the area (in cm^2) of a sector of the circle that subtends a 22.5° angle at the centre? [Use π=22/7]
(a) 86.6205
(b) 86.0625
(c) 86.6250
(d) 86.6025

Q59. For what positive value of k, the equation $3x^2 + 2kx + 3 = 0$ has real and equal roots?
(a) 12
(b) 1
(c) 3
(d) 9

Q60. The selling price of 34 articles is equal to the cost price of 38 articles. What is the gain percentage?
(a) 7 6/17 %
(b) 10 3/17 %
(c) 11 13/17 %
(d) 9 8/17 %

Q61. The algebraic expression $2x^2 - 32$ is equal to _____.
(a) $2(x - 4)^2$
(b) $(x + 4)(x - 4)$
(c) $2(x + 4)^2$
(d) $2(x + 4)(x - 4)$

Q62. In a square ABCD, E is a point inside the square such that Δ DEC is an equilateral triangle. If E is joined to vertices A and B of the square, what is the degree measure of angle AEB?
(a) 135°
(b) 150°
(c) 210°
(d) 225°

Q63. If $(x-1/x)=0.4$, and $x > 0$, what is the value of $(x^2+1/(x^2))$?
(a) 4.46
(b) 3.32
(c) 1.84
(d) 2.16

Q64. What is the length (in cm) of the chord of a circle whose radius is 13 cm and whose perpendicular distance from the chord to the centre is 5 cm?
(a) 18
(b) 24
(c) 12
(d) 30

Q65. A and B can finish a work in 6 days and 4 days, respectively. A alone worked on it for 2 days. Thereafter, B joined him. How much total time was taken by them to finish the work?
(a) 3 3/5 days
(b) 1 3/5 days
(c) 3 1/5 days
(d) 4 1/5 days

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Q66. The present age of a father is twice that of his son. 8.5 years hence the ratio would be 7 : 4. Find the son's present age.

(a) 25.5 years
(b) 16.5 years
(c) 20.5 years
(d) 24.6 years

Q67. If (x+1/x)=5, then the value of (x^5+1/(x^5)) is:

(a) 2535
(b) 2540
(c) 2515
(d) 2525

Q68. What is the least number that must be added to the greatest 6 -digit number so that the sum will be exactly divisible by 294?

(a) 234
(b) 194
(c) 269
(d) 189

Q69. A shopkeeper offers the following discount schemes for the purchase of his goods. Find the scheme which has the maximum discount.

(i) Two successive discounts of 20% and 10%
(ii) Discount of 10%
(iii) Buy 8 and get 4 free
(iv) Buy 9 and get 6 free

(a) (iii)
(b) (ii)
(c) (i)
(d) (iv)

Q70. A solid rectangular block of metal of dimensions 88 cm × 21 cm × 21 cm, is melted to form a solid sphere. What is its radius (in cm)? Take π=22/7

(a) 28
(b) 35
(c) 21
(d) 14

Q71. A shopkeeper named Ramesh marks his articles at such a price that, even after allowing a discount of 20% on the marked price, he earns a profit of 15%. What is the marked price of one article, which costs Rs. 5,600?

(a) Rs. 10,550
(b) Rs. 9,000
(c) Rs. 7,950
(d) Rs. 8,050

Q72. The table shows the annual income of 5 schools in thousands:

Source of income	Schools				
P	Q	R	S	T	
Tuition fee	120	60	210	90	120
Activity fee	24	12	45	24	30
Grants	54	21	60	51	60

In how many schools is the tuition fee less than four times the activity fee?

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

Q73. The table given below shows the number of television sets that were sold by the showrooms X, Y, Z, L, M, N from the year 2016 to 2019. Answer the question given below based on the information given in the table.

Years/Showroom	X	Y	Z	L	M	N
2016	234	167	179	176	187	273
2017	180	274	269	98	370	195
2018	130	151	236	176	239	277
2019	264	107	237	225	282	237

How many more television sets were sold by all the showrooms in the year 2017 as compared to 2019?

(a) 67
(b) 43
(c) 93
(d) 34

Q74. A train running at 26.5 km/h takes 18 s to pass a platform. Next, it takes 12 s to pass a man walking at 5 km/h in the opposite direction. Find the length of the platform.

(a) 22.5 m
(b) 27.5 m
(c) 10.0 m
(d) 12.5 m

Q75. In ΔOPQ, right-angled at P, OP = 7 cm and OQ - PQ = 1 cm. Determine the values of sin Q + cos Q.

(a) 13/25
(b) 21/25
(c) 31/25
(d) 33/25

GENERAL AWARENESS

Q76. Direction: Select the most appropriate synonym of the given word.

Challenge

(a) Dare
(b) Chagrin
(c) Exert
(d) Acceptance

Q77. Direction: Select the most appropriate ANTONYM of the given word.

Hamper

(a) Obscure
(b) Reduce
(c) Hinder
(d) Promote

Q78. Direction: Select the option that will improve the underlined part of the given sentence.

Robinhood broke within the mansion to collect some food and money for the poor.

(a) broke upto

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(b) broke in
(c) broke into
(d) broke to

Q79. Direction: Select the option that can be used as a one-word substitute for the given group of words.
The study of skin
(a) Dermatology
(b) Cytology
(c) Congenital
(d) Dementia

Q80. Direction: Select the most appropriate option that can substitute the underlined words in the given sentence.
I was so nervous for the job interview that I was sweating bullets the whole time.
(a) very happy
(b) extremely nervous or anxious
(c) very cold
(d) very hard

Q81. Direction: The following sentence has been split into four segments. Identify the segment that contains a spelling error.
It is difficult to / retain anonimity while / working in the world's / most well-known organisation.
(a) working in the world's
(b) It is difficult to
(c) most well-known organisation.
(d) retain anonimity while

Q82. Direction: Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
A. human life consists of a succession of small events each of which is
B. and yet the happiness and success of every man depends
C. comparatively unimportant
D. upon the manner in which these small events are dealt with
(a) ACBD
(b) ABDC
(c) ABCD
(d) ADCB

Q83. Direction: Select the most appropriate option that can substitute the underlined segment in the given sentence.
Our teachers has planned of going for a picnic to the Doon Valley.
(a) Our teachers has planned a picnic
(b) Our teachers has plan a picnic
(c) Our teachers is planned a picnic
(d) Our teachers have planned a picnic

Q84. Direction: Select the option that expresses the given sentence in passive voice.
Austin kept the cake in the refrigerator.
(a) The cake is kept in the refrigerator by Austin.
(b) The cake was kept in the refrigerator by Austin.
(c) The cake was being kept by Austin in the refrigerator.
(d) The cake was kept in the Austin by the refrigerator.

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Q85. Direction: Select the option that will improve the underlined part of the following sentence.

The new employee was quickly promoted due to their hard work and dedication.

(a) due to his hard work and dedication
(b) due to the hard work and dedication of him
(c) due to hard work and dedication
(d) due to giving hard work and showing dedication

Q86. Direction: Sentences of a paragraph are given below in jumbled order. Select the option that arranges the sentences in the correct order to form a meaningful and coherent paragraph.

A. The nation has flourished a lot in many areas during last seven decades.

B. The truth is perhaps partial neglect and insignificant place given in the budgetary allocations by the ruling governments.

C. But the biggest ever challenges of healthcare and education are still not achieved in their true sense.

D. Specific reasons are partially known and the rest is speculation about it.

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

Q87. Direction: Select the most appropriate ANTONYM of the underlined word.

Measures adopted by the International Olympic Committee (IOC) and supported by the UN have been described as a 'game changer' for future Olympic events in terms of driving sustainability in sport and fighting climate change.

(a) rejected
(b) headed
(c) established
(d) inducted

Q88. Direction: Select the meaningful and correctly spelt word from the given options to fill in the blank.

The most _____ creature, as far as Amit is concerned, is a walrus.

(a) dispecable
(b) despicable
(c) delibarate
(d) desietful

Q89. Direction: The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I am / walking in the / Cross Road Garden / since morning.

(a) Cross Road Garden
(b) since morning
(c) walking in the
(d) I am

Q90. Direction: Select the option that expresses the given sentence in positive degree of comparison.

He was greater than any other physiologist of the century.

(a) All other physiologists were as great as him.
(b) He was the greatest physiologist of all.
(c) He as a physiologist in the country was among the greatest people.
(d) No other physiologist of the century was as great as he was.

Q91. Direction: Select the most appropriate synonym of the underlined word in the given sentence.

Specify the issue of feminism in your own words.

(a) brief
(b) refute
(c) criticise

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(d) define

Q92. Direction: Select the most appropriate meaning of the given idiom.

Forty winks

(a) A small talk
(b) A precarious situation
(c) A short nap
(d) An opportunity in hand

Q93. Direction: Select the most appropriate ANTONYM of the given word.

Inept

(a) Adorable
(b) Kind
(c) Skilful
(d) Elegant

Q94. Direction: Select the option that expresses the given sentence in passive voice.

The peon will post the letter.

(a) The letter has been posted by the peon.
(b) The letter would have been posted by the peon.
(c) The letter will be posted by the peon.
(d) The letter is being posted by the peon.

Q95. Direction: Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.

The smell of _____ (formerly) brewed coffee wafted through the air, beckoning him to start his day.

(a) hitherto
(b) quickly
(c) preserved
(d) subsequently

Directions

Direction: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Seasonal winds are a natural phenomenon that ____ (1) __ weather patterns across the globe. These winds are caused by the sun's unequal heating of the earth's surface, which creates differences in temperature and pressure between different regions. The movement of air from high-pressure areas to low-pressure areas causes seasonal winds to form, and their direction and intensity __ (2) __ depending on the region and season. One of the most significant seasonal winds is the monsoon, which affects large parts of South Asia during the summer months. This wind system brings much-needed rain to the region, but it can also cause flooding and landslides, leading to loss of life and property damage. Other seasonal winds include the harmattan in West Africa, which is a dry, dusty wind that blows from the Sahara Desert towards the Atlantic coast, and the mistral in southern France, which is a strong, cold wind that blows down the Rhone Valley towards the Mediterranean. Seasonal winds can have a significant __ (3) __ on agriculture, particularly in regions where rainfall is limited. Farmers rely on the monsoon or other seasonal winds in these areas to bring moisture to their crops. However, changes in wind patterns due to climate change can __ (4) __ these seasonal rains, leading to crop failures and food shortages. Overall, seasonal winds are a vital part of the earth's weather system, and their effects are __ (5) ____ across the globe.

Q96. Select the most appropriate option to fill in blank 1.

(a) affects
(b) calculates
(c) collides
(d) exaggerates

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Q97. Select the most appropriate option to fill in blank 2.

(a) fluctuate
(b) transform
(c) mutate
(d) vary

Q98. Select the most appropriate option to fill in blank 3.

(a) opportunity
(b) blame
(c) outcome
(d) impact

Q99. Select the most appropriate option to fill in blank 4.

(a) align
(b) corrupt
(c) neglect
(d) disrupt

Q100. Select the most appropriate option to fill in blank 5.

(a) overlooked
(b) furnished
(c) assumed
(d) felt

ANSWER KEY

1	a	2	c	3	d	4	b	5	a	6	a	7	d	8	a	9	d	10	b
11	a	12	a	13	c	14	a	15	c	16	b	17	b	18	b	19	a	20	a
21	b	22	d	23	a	24	a	25	c	26	c	27	c	28	c	29	b	30	a
31	c	32	a	33	c	34	c	35	d	36	c	37	c	38	b	39	c	40	b
41	b	42	d	43	d	44	a	45	d	46	d	47	c	48	a	49	b	50	a
51	a	52	a	53	b	54	b	55	d	56	c	57	b	58	c	59	c	60	c
61	d	62	b	63	d	64	b	65	a	66	a	67	d	68	d	69	d	70	c
71	d	72	b	73	d	74	b	75	c	76	a	77	d	78	c	79	a	80	b
81	d	82	a	83	d	84	b	85	a	86	c	87	a	88	b	89	d	90	d
91	d	92	c	93	c	94	c	95	d	96	a	97	d	98	d	99	d	100	d

SOLUTIONS

Q1. Answer: (a) 293

Given:
233, 237, 245, 257, 273,?
Logic: Addition of the consecutive multiple of '4'.
Here, the missing term is '293'.
Hence, the correct answer is "Option (1)".

Q2. Answer: (c) Neither conclusion (I) nor (II) follows

Statements:
Some tickets are clocks.
All buttons are tickets.
No stamps are clocks.

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The Venn diagram as per the given statements:

Conclusions:

(I) No tickets are stamps. → Not follow (There is no direct relation given between tickets and stamps so it can be possible but not definitely true)

(II) Some buttons are clocks. → Not follow (There is no direct relation given between buttons and clocks so it can be possible but not definitely true)

Hence, the correct answer is "Neither conclusion (I) nor (II) follows".

Q3. Answer: (d) KS 36

Here, we use the table given below:

Given:

HP 16, ?, NV 64, QY 100, TB 144

The logic followed in the given series:

Here, the missing term is 'KS 36'.

Hence, the correct answer is "Option (4)".

Q4. Answer: (b) 25

Given:

40, 39, 37, 34, 30,?

Logic: Subtraction of consecutive natural numbers.

Here, the missing term is '25'.

Hence, the correct answer is "Option (2)".

Q5. Answer: (a) 217

Here, we use the BODMAS table given below:

Given:

=> 35 - 28 ÷ 7 + 322 × 23

After interchanging '+' and '-' & '×' and '÷' →

=> 35 + 28 × 7 - 322 ÷ 23

Apply BODMAS rule:

=> 35 + 28 × 7 - 322 ÷ 23

=> 35 + 28 × 7 - 14

=> 35 + 196 - 14

=> 231 - 14 = 217

=> '35 + 28 × 7 - 322 ÷ 23 = 217'

Here, the value of the equation is '217'.

Hence, the correct answer is "Option (1)".

Q6. Answer: (a) 17 : 162

Logic: Second no. = [(First no. × 9) - 9]

Checking the given options:

(1) 17 : 162 →

=> [(17 × 9) + 9]

=> (153 + 9) = 162

(2) 15 : 126 →

=> [(15 × 9) - 9]

=> (135 - 9) = 126

(3) 27 : 234 →

=> [(27 × 9) - 9]

=> (243 - 9) = 234

(4) 31 : 270 →

=> [(31 × 9) - 9]

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=> (279 - 9) = 270
Here, '17 : 162' is different from the rest.
Hence, the correct answer is "Option (1)".

Q7. Answer: (d) GJM

Here, we use the table given below:

Logic: '2' and '3' are added to the positional value of the first and second alphabet respectively.
Checking the given options:
1. BDG →
2. MOR →
3. PRU →
4. GJM →
Here, 'GJM' is different from the rest.
Hence, the correct answer is "Option (4)".

Q8. Answer: (a) [figure]

The mirror image of the given figure is:
Hence, the correct answer is "Option (1)".

Q9. Answer: (d) 126

Here, we use the BODMAS table given below:
Given:
=> 8 ÷ 512 × 64 + 33 - 95
After interchanging '+' and '-' & '×' and '÷' →
=> 8 × 512 ÷ 64 - 33 + 95
Apply BODMAS rule:
=> 8 × 512 ÷ 64 - 33 + 95
=> 8 × 8 - 33 + 95
=> 64 - 33 + 95
=> 159 - 33 = 126
=> '8 × 512 ÷ 64 - 33 + 95 = 126'
Here, the value of the equation is '126'.
Hence, the correct answer is "Option (4)".

Q10. Answer: (b) RUWT

Here, we use the table given below:

Logic: '6' is added to the positional value of each alphabet.
NQSP is related to TWYV →
EHJG is related to KNPM →
Similarly, 'LOQN' will be related to:
Here, 'LOQN' is related to 'RUWT'.
Hence, the correct answer is "Option (2)".

Q11. Answer: (a) OQL

Here, we use the table given below:

Given:
CYF, IHI, ?, UZO, AIR
Logic: '6', '9' and '3' are added to the positional value of the first, second and third alphabet respectively.
Here, the missing term is 'OQL'.
Hence, the correct answer is "Option (1)".

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Q12. Answer: (a) Two

Given: 'BACKING'

Arranging in alphabetical order:

BACKING → ABCGIKN

Here, the two letters 'C' and 'I' remain unchanged.

Hence, the correct answer is "Option (1)".

Q13. Answer: (c) 59

Logic: Second no. = [(First no. × 3) + 5]

23 is related to 74 →

=> [(23 × 3) + 5]

=> (69 + 5) = 74

13 is related to 44 →

=> [(13 × 3) + 5]

=> (39 + 5) = 44

Similarly, '18' will be related to:

=> [(18 × 3) + 5]

=> (54 + 5) = 59

Here, '18' is related to '59'.

Hence, the correct answer is "Option (3)".

Q14. Answer: (a) [figure]

The logic followed in the given figure series is:

From Figure (1) to (2):

The circles are removed, one rectangle and one triangle are added and a new symbol is introduced.

From Figure (2) to (3):

The rectangles are removed, one triangle and one (%) symbol are added and a new symbol is introduced.

From Figure (3) to (4):

The triangles are removed, one (%) symbol and one (+) symbol are added and a new symbol (+) is introduced.

From Figure (4) to Answer Figure:

The (%) symbols are removed, one (+) symbol and one (=) symbol are added and a new symbol (*) is introduced.

Hence, the correct answer is "Option (1)".

Q15. Answer: (c) 25 : 620

Logic: Second no. = [(First no.)² - 5]

Given:

6 : 31 →

=> [(6)² - 5]

=> (36 - 5) = 31

8 : 59 →

=> [(8)2 - 5]

=> (64 - 5) = 59

Checking the given options:

(1) 7 : 42 →

=> [(7)2 - 5]

=> (49 - 5) = 44

(2) 9 : 75 →

=> [(9)2 - 5]

=> (81 - 5) = 76

(3) 25 : 620 →

=> [(25)2 - 5]

=> (625 - 5) = 620

(4) 12 : 140 →

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=> [(12)2 - 5]

=> (144 - 5) = 139

Here, '25 : 620' is similar to the given number pairs.

Hence, the correct answer is "Option (3)".

Q16. Answer: (b) Brother's daughter

Preparing the family tree diagram by using the following symbols:

As per the given information:

1. Q is the brother of L, L is the sister of N and N is the father of R.

2. R is married to P and P is the brother of T.

3. T is the mother of X and Y is the daughter of R.

Here, Y is the daughter of T's brother.

Hence, the correct answer is "Option (2)".

Q17. Answer: (b) TDZ

Here, we use the table given below:

Given:

FNL, CRI, ZVF, WZC,?

Logic: '3' is subtracted from the positional value of the first and third alphabet and '4' is added to the positional value of the second alphabet.

Here, the missing term is 'TDZ'.

Hence, the correct answer is "Option (2)".

Q18. Answer: (b) Neither conclusion (I) nor (II) follows

Statements:

All rocks are mountains.

All stones are pebbles.

Some pebbles are mountains.

The Venn diagram as per the given statements:

Conclusions:

(I) Some rocks are stones. → Not follow (Because there is no direct relation between rocks and stones so it can be possible but not definitely true)

(II) No pebbles are rocks. → Not follow (Because there is no direct relation between pebbles and rocks so it can be possible but not definitely true)

Hence, the correct answer is "Neither conclusion (I) nor (II) follows".

Q19. Answer: (a) BACQFUJZUHPM

Here, we use the table given below:

Logic: Addition and subtraction of '1' alternatively.

'HALLUCINATED' is written as 'IZMKVBJMBSFC' →

'PURIFICATION' is written as 'QTSHGHDZUHPM' →

Similarly, 'ABBREVIATION' will be written as:

Here, 'ABBREVIATION' is written as 'BACQFUJZUHPM'.

Hence, the correct answer is "Option (1)".

Q20. Answer: (a) 38

Here, we use the BODMAS table given below:

Given:

=> 24 + 4 - 9 × 3 ÷ 6

After interchanging '+' and '-' & '×' and '÷' →

=> 24 - 4 + 9 ÷ 3 × 6

Apply BODMAS rule:

=> 24 - 4 + 9 ÷ 3 × 6

=> 24 - 4 + 3 × 6

=> 24 - 4 + 18

=> 42 - 4 = 38

=> '24 - 4 + 9 ÷ 3 × 6 = 38'

Here, the value of the equation is '38'.

Hence, the correct answer is "Option (1)".

Q21. Answer: (b) [figure]

The mirror image of the given figure is:

Hence, the correct answer is "Option (2)".

Q22. Answer: (d) Sq

As per the given information:

Here, the code for 'turn' is 'sq'.

Hence, the correct answer is "Option (4)".

Q23. Answer: (a) JTAL

Logic: Rearrangement of the alphabet.

DHMN is related to DMNH →

PTSQ is related to PSQT →

Similarly, 'JLTA' will be related to:

Here, 'JLTA' is related to 'JTAL'.

Hence, the correct answer is "Option (1)".

Q24. Answer: (a) 10

The number of triangles in the given figure is:

Here, the number of triangles is '10'.

Hence, the correct answer is "Option (1)".

Q25. Answer: (c) Wednesday

Given: 15 January 1997 = Wednesday

So,

15 January 1998 = Wednesday + 1 = Thursday

15 January 1999 = Thursday + 1 = Friday

15 January 2000 = Friday + 1 = Saturday,

But, we need to find the day on 5 January 2000, so subtract 10 days(15th to 5 January) from Saturday.

Therefore, Saturday - 10 = Wednesday.

So, 5 January 2000 = Wednesday.

Hence, the correct answer is "Option (3)".

Q26. Answer: (c) Valid for only point charge

The correct answer is Valid for only point charge.

Key Points

• Coulomb's law:-

• It is a fundamental law of electrostatics that describes the interaction between electric charges.

• It states that the force between two point charges is directly proportional to the product of their charges and inversely proportional to the square of the distance between them.

• While Coulomb's law is only valid for point charges, the principle can be extended to calculate the force between distributed charges by treating them as a collection of point charges.

• Coulomb's law is a fundamental principle that is used extensively in electrostatics, including in the design of electrical circuits and devices.

Additional Information

• A point charge is a theoretical concept used to describe a charge that is concentrated at a single point in space.

• Distributed charges are charges that are spread out over a surface or volume.

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Q27. Answer: (c) Ahmedabad

The correct answer is Ahmedabad.

Key Points

• SEWA Cooperative Bank:-

• The SEWA Cooperative Bank was first initiated in Ahmedabad in 1974.

• It was founded by the Self-Employed Women's Association (SEWA), a trade union based in Gujarat that focuses on empowering women in the informal sector.

• The bank was established to provide financial services to SEWA members, who were mostly women working in the informal sector.

• Today, the SEWA Cooperative Bank has grown to become one of the largest cooperative banks in India, with branches in several cities across the country.

Additional Information

• Jaipur:-

• It is the capital city of Rajasthan and is known for its rich history and cultural heritage.

• Lucknow:-

• It is the capital city of Uttar Pradesh and is famous for its cuisine and architecture.

• Bhopal:-

• It is the capital city of Madhya Pradesh and is known for its lakes, museums, and historical landmarks.

Q28. Answer: (c) T. S. Sivagnanam

The correct answer is T. S. Sivagnanam.

Key Points

• T. S. Sivagnanam:-

• He is a highly respected judge who has served in various capacities in the Indian judiciary.

• He was appointed as the Chief Justice of the Calcutta High Court in May 2023, and he is expected to serve with distinction in this role.

Q29. Answer: (b) David Tilman

The correct answer is David Tilman.

Key Points

• David Tilman:-

• He showed in his long-term experiment on outdoor plots that biodiversity is essential to the productivity, stability, resistance to invasion of ecosystems, and fertility of their soils.

• His experiment involved growing different combinations of plant species and measuring the resulting productivity and stability of the ecosystem.

• The results showed that ecosystems with higher biodiversity were more productive and stable, and had greater resistance to invasion by non-native species.

• This experiment supports the idea that preserving biodiversity is crucial for maintaining healthy and functioning ecosystems.

Additional Information

• Karl Mobius:-

• He was a German zoologist who studied marine ecosystems, but did not conduct research on the importance of biodiversity.

• Herbert Spencer:-

• He was a 19th-century philosopher and sociologist who did not conduct any research on ecology or biodiversity.

• Edward Osborne Wilson:-

• He is a renowned biologist who has done extensive research on biodiversity.

Q30. Answer: (a) 74.04%

The correct answer is 74.04%

Key Points

• Census of 2011:-

• The literacy rate of India as per the Census of 2011 is 0.7404, which means that 74.04% of the population is literate.

• This is an improvement from the 2001 Census, where the literacy rate was 64.83%.

• The literacy rate is higher in urban areas (84.1%) compared to rural areas (68.9%).

• Kerala has the highest literacy rate among all the states in India with 96.2%, while Bihar has the lowest with 63.8%.

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Q31. Answer: (c) Bali, Indonesia

The correct answer is Bali, Indonesia.

Key Points

• G20 Health Ministers Meeting:-

• The G20 Health Ministers Meeting is a forum where health ministers from the G20 countries come together to discuss and coordinate their efforts on global health issues.

• The second G20 Health Ministers Meeting was held in Bali. Indonesia in October 2022, and it was addressed by Dr Mansukh Mandaviya, Union Minister for Health and Family Welfare.

Q32. Answer: (a) Chahat Arora

The correct answer is Chahat Arora

Key Points

• Chahat Arora:-

• Chahat Arora is an Indian swimmer who has represented India at various international swimming competitions.

• She set a national record in 100m breaststroke at the FINA World Swimming Championships (25m) 2022.

Additional Information

• FINA World Swimming Championships (25m):-

• It is a biennial swimming competition organized by FINA, the international governing body of aquatic sports.

• Breaststroke:-

• It is a swimming stroke in which the swimmer moves their arms in a circular motion while kicking their legs in a frog-like motion.

Q33. Answer: (c) During festive season the CDR typically declines.

The correct answer is During festive season the CDR typically declines.

Key Points

• Currency Deposit Ratio:-

• CDR is the ratio of currency with the public to demand deposits of banks.

• It reflects people's preference for liquidity, i.e., how much currency people prefer to hold in comparison to keeping it in the bank.

• CDR is a behavioral parameter as it depends on people's spending habits and their confidence in the banking system.

• It may also depend on the interest rates offered by banks on deposits and the inflation rate in the economy.

• The seasonal pattern of expenditure may affect CDR as people tend to withdraw more currency during festive seasons for spending purposes.

Q34. Answer: (c) Article 48

The correct answer is Article 48.

Key Points

• Article 48:-

• Article 48 of the Directive Principles of State Policy in the Indian Constitution emphasizes the protection and improvement of agriculture and animal husbandry and promotes the use of modern scientific techniques in agriculture.

• Pradhan Mantri Fasal Bima Yojana:-

• It is a crop insurance scheme introduced by the Government of India in 2016 to provide financial support to farmers in case of crop failure, damage, or loss due to natural calamities, pests, or diseases.

• This scheme is aimed at ensuring food security, stabilizing farm incomes, and reducing the burden of debt on farmers, and is implemented by the Ministry of Agriculture and Farmers' Welfare.

Additional Information

• Article 47:-

• It deals with the duty of the State to raise the level of nutrition and the standard of living, while Article 45 pertains to the provision of free and compulsory education for children between the ages of six and fourteen.

• Article 46:-

• It talks about the promotion of educational and economic interests of Scheduled Castes, Scheduled Tribes, and other weaker sections of society.

Q35. Answer: (d) If real GDP is 240 and price index is 120, nominal GDP is 288.

The correct answer is If real GDP is 240 and price index is 120, nominal GDP is 288.

Key Points

• Nominal GDP:-

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• It is calculated by multiplying the real GDP by the price index.

• The nominal GDP should be 288 (240 x 120/100).

Q36. Answer: (c) i - d, ii - a, iii - b, iv - c

The correct answer is i - d, ii - a, iii - b, iv - c.

Key Points

• GNP:-

• Gross National Product is the total value of goods and services produced by a country's residents, including those produced abroad, and can be calculated as C (consumption) + I (investment) + G (government spending) + net exports (exports - imports).

• NNP:-

• (Net National Product) is the GNP minus depreciation, which is the decrease in value of capital goods over time due to wear and tear.

• GDP:-

• (Gross Domestic Product) is the total value of goods and services produced within a country's borders, and can be calculated as C + I + G + net exports.

• NDP:-

• (Net Domestic Product) is the GDP minus depreciation.

Additional Information

• National income measures:-

• These are important indicators of a country's economic performance and are used for policy-making and analysis.

• Another measure of national income is GNI (Gross National Income), which is similar to GNP but includes net income from abroad and excludes net taxes and subsidies.

• Per capita measures of national income, such as GDP per capita or GNP per capita, can provide insights into the standard of living of a country's population.

• National income measures have limitations and do not capture important aspects of economic activity, such as non-market activities, informal sector, and environmental degradation.

Q37. Answer: (c) Tetrahydrofuran

The correct answer is tetrahydrofuran.

Key Points

• tetrahydrofuran:-

• Oxolane is a cyclic ether with the molecular formula C4H8O.

• It is also known as tetrahydrofuran (THF).

• THF is a colorless, water-miscible organic liquid with a faintly sweet odor. It is widely used as a solvent in chemical reactions and as a starting material for the synthesis of various organic compounds.

Additional Information

• Thiophene:-

• It is a heterocyclic compound with the molecular formula C4H4S.

• It is a colorless to pale yellow liquid with a strong odor. Thiophene and its derivatives are used in the production of various organic compounds, including pharmaceuticals, agrochemicals, and polymers.

• Tetrahedrane:-

• It is a hypothetical compound with a tetrahedral arrangement of four carbon atoms. It is a highly strained molecule that has not been synthesized yet.

• Tetrahedrane and its derivatives are studied for their potential applications in materials science and catalysis.

• Tropolone:-

• It is an aromatic compound with the molecular formula C7H6O2. It is a yellow crystalline solid with a bitter taste. Tropolone and its derivatives are used as chelating agents, antioxidants, and antibacterial agents.

Q38. Answer: (b) Lord Auckland

The correct answer is Lord Auckland.

Key Points

• Tripartite treaty:-

• Lord Auckland signed the Tripartite treaty on behalf of the British Government to interfere in the affairs of Afghanistan.

• The treaty was signed in 1838 between the British, Afghan, and Sikh empires.

• The treaty was aimed at countering Russian influence in Afghanistan.

• The treaty ultimately led to the First Anglo-Afghan War, which ended in a British defeat and withdrawal from Afghanistan.

Additional Information

• Lord Mayo:-

• He was the Viceroy of India from 1869 to 1872 and was assassinated in the Andaman Islands.

• Lord Wellesley:-

• He was the Governor-General of India from 1798 to 1805 and was known for his aggressive policies towards the French and other European powers in India.

• Lord Canning:-

• He was the Governor-General of India during the Indian Rebellion of 1857 and oversaw the transfer of power from the East India Company to the British Crown.

Q39. Answer: (c) Tropical evergreen forest

The correct answer is Tropical evergreen forests.

Key Points

• Tropical evergreen forests:-

• These are also known as rainforests, which are characterized by high rainfall and year-round warm temperatures.

• Ebony, mahogany, and rosewood trees are part of the Tropical evergreen forest.

• These forests are home to a diverse range of flora and fauna and are considered one of the most biologically diverse ecosystems on the planet.

Additional Information

• Temperate forests:-

• These are found in regions with moderate temperatures and distinct seasons, such as the northeastern United States, Europe, and parts of Asia.

• Trees commonly found in temperate forests include oak, maple, and birch.

• Tropical deciduous forests:-

• These are found in regions with seasonal rainfall, such as India and Africa.

• Trees commonly found in tropical deciduous forests include sal, teak, and eucalyptus.

• Alpine vegetation:-

• These refers to the plants that grow at high altitudes, typically above the tree line.

• These plants are adapted to the harsh conditions of high altitude environments, such as cold temperatures and low oxygen levels.

Q40. Answer: (b) a, b, c

The correct answer is a, b, c.

Key Points

• Dollu Kunitha:-

• It is a traditional dance form of Karnataka, performed mainly by the menfolk of the shepherd community.

• The word "Dollu" means "drum" in Kannada, and the dance is characterized by the use of large drums, which are decorated with colorful clothes and played by the dancers themselves.

• The dance is usually performed during religious festivals and other auspicious occasions, and is accompanied by songs that are sung in praise of gods and goddesses, as well as in celebration of battles and victories.

Q41. Answer: (b) Bappi Lahiri

The correct answer is Bappi Lahiri.

Key Points

• Bappi Lahiri-

• He was a popular music director in India who has composed music for over 600 films.

• He is known for his disco and electronic music style and has won several awards for his work.

Additional Information

• Birju Maharaj:-

• Birju Maharaj is a Padma Vibhushan awardee and has also received several national and international awards for his contribution to the field of dance.

• He is a renowned Kathak dancer and choreographer.

• Kaifi Azmi:-

• He was a renowned poet and lyricist.

• Kaifi Azmi was known for his socially relevant and progressive lyrics and was also a prominent member of the Indian People's Theatre Association (IPTA).

• Anjaan:-

• He was a lyricist and screenwriter.

• Anjaan was a popular lyricist in the 1980s and 1990s and has written songs for several hit films.

Q42. Answer: (d) Cricket

The correct answer is cricket.

Key Points

• 'How's that?:-

• The appeal 'How's that?' is associated with cricket and is made by the fielding team to the umpire to ask whether the batsman is out or not out.

• In cricket, the fielding team can appeal for various reasons such as caught behind, LBW (leg before wicket), stumped, hit wicket, and run-out. The umpire then makes a decision based on the appeal and the rules of the game.

Additional Information

• Badminton:-

• It is a racquet sport played by either two opposing players (singles) or two opposing pairs (doubles), who take positions on opposite halves of a rectangular court that is divided by a net.

• The game is won by scoring points by striking a shuttlecock with the racquet and landing it within the opposing side's half of the court.

• Volleyball:-

• It is a team sport in which two teams of six players are separated by a net.

• Each team tries to score points by grounding a ball on the other team's court under organized rules.

• Hockey:-

• It is a team sport in which two teams play against each other by trying to maneuver a ball or a puck into the opponent's goal using a hockey stick.

• It is played on various types of fields, such as natural grass, ice, or artificial turf.

Q43. Answer: (d) Otto Schmidt

The correct answer is Otto Schmidt.

Key Points

• Nebular hypothesis:-

• Otto Schmidt was a Russian scientist who proposed the revised nebular hypothesis in 1950.

• The revised hypothesis proposed that the sun is surrounded by a solar nebula consisting mainly of hydrogen and helium, as well as dust.

• This hypothesis is widely accepted today and forms the basis of our understanding of the formation of our solar system.

Q44. Answer: (a) Sattriya

The correct answer is Sattiya.

Key Points

• Ranjumoni Saikia:-

• She won the Sangeet Natak Akademi Award of 2019 for the dance form called Sattriya.

• Sattriya:-

• It is a classical dance form that originated in the state of Assam, India.

• It is one of the eight recognized classical dance forms of India.

• Sattriya is a devotional dance form that is performed in the monasteries of Assam, known as sattras.

Additional Information

• Odissi:-

• It is a classical dance form that originated in the state of Odisha, India. It is characterized by fluid movements and facial expressions that depict stories from Hindu mythology.

• Bharatanatyam:-

• It is a classical dance form that originated in the state of Tamil Nadu, India. It is characterized by intricate footwork, hand

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gestures, and facial expressions that convey stories from Hindu mythology.

• Chhau:-

• it is a classical dance form that originated in the eastern states of India, namely Jharkhand, Odisha, and West Bengal. It is characterized by masked dancers who depict stories from Hindu mythology.

Q45. Answer: (d) Article 13

The correct answer is Article 13

Key Points

• Article 13 of the Indian Constitution:-

• It mentions that laws that are inconsistent with or in derogation of any of the fundamental rights shall be void.

• This means that any law that goes against the fundamental rights guaranteed by the Constitution will be deemed invalid and unenforceable.

• Fundamental rights are an important aspect of the Indian Constitution and are enshrined in Part III of the Constitution.

• These rights include the right to equality, right to freedom, right against exploitation, right to freedom of religion, cultural and educational rights, and the right to constitutional remedies.

• The Constitution also provides for the protection of these fundamental rights through the mechanism of the judiciary, which can strike down any law that violates these rights.

Additional Information

• Article 14 of the Constitution:-

• It guarantees the right to equality before the law and equal protection of the law to all citizens.

• Article 15:-

• It prohibits discrimination on the grounds of religion, race, caste, sex or place of birth.

• Article 16:-

• It guarantees equality of opportunity in matters of public employment and prohibits discrimination on the grounds of religion, race, caste, sex, descent, place of birth, residence or any of them.

Q46. Answer: (d) Best Female Para Badminton Player of the year by the World Badminton Federation (BWF)

The correct answer is Best Female Para Badminton Player of the year by the World Badminton Federation (BWF)

Key Points

• Manisha Ramadass:-

• Manisha Ramadass is a Para Badminton player from India who has won several national and international tournaments.

• She received the Best Female Para Badminton Player of the year award by the World Badminton Federation (BWF) in 2022.

• This award recognizes her exceptional performance in the sport of Para Badminton.

Additional Information

• Para Badminton:-

• It is a sport designed for athletes with physical disabilities.

• World Badminton Federation:-

• (BWF) is the governing body for the sport of badminton globally.

• Sports Authority of India:-

• (SAI) is a government body that promotes and develops sports in India.

Q47. Answer: (c) National Highways Authority of India

The correct answer is National Highways Authority of India.

Key Points

• National Highways Authority of India:-

• The National Highways Authority of India (NHAI) has undertaken the Golden Quadrilateral project.

• The project involves the construction of a 5,846 km network of highways connecting the four major cities of Delhi, Mumbai, Chennai, and Kolkata.

• The project was initiated in 2001 and completed in 2012 at a cost of around undefined300 billion (US$4.2 billion).

• The Golden Quadrilateral project is one of the largest highway construction projects in the world.

Additional Information

• National Highways and Infrastructure Development Corporation Limited:-

• NHIDCL is a public sector undertaking that was established in 2014 to promote, develop, and maintain infrastructure projects in the country.

• Indian Roads Construction Corporation:-

• IRCON is a government-owned infrastructure company that was established in 1976 to undertake construction projects in India and abroad.

• Border Road Organisation:-

• BRO is a branch of the Indian Army that is responsible for the construction and maintenance of roads in border areas.

Q48. Answer: (a) Mysore Palace

The correct answer is Mysore Palace.

Key Points

• Dussehra:-

• It is a major Hindu festival that celebrates the victory of good over evil.

• It is usually celebrated in the months of September or October.

• The festival is also known as Vijayadashami and marks the end of the Navratri festival.

• In different parts of India, Dussehra is celebrated in different ways with different customs and traditions.

• Mysore Palace:-

• It is known for its grand celebrations of Dussehra, which is also known as Mysore Dasara.

• The festival is celebrated for 10 days with a grand procession on the 10th day, known as Vijayadashami.

• The procession includes an idol of Goddess Chamundeshwari, which is placed on a decorated elephant and taken around the city

Q49. Answer: (b) Chola

The correct answer is Chola.

Key Points

• Chola:-

• The ruler who invaded Malaya to liberate their trade with China was the Chola dynasty.

• The Cholas were a powerful dynasty that ruled over a large part of South India from the 9th to the 13th century.

• The Cholas were known for their naval power and trade with Southeast Asia, particularly with China.

• The Cholas invaded Malaya (modern-day Malaysia) in the 11th century to establish a trade relationship with China, which was being blocked by the Srivijaya empire that controlled the Strait of Malacca.

Additional Information

• Pallava dynasty:-

• The Pallava dynasty ruled over parts of South India from the 3rd to the 9th century and were known for their patronage of art and architecture, particularly the rock-cut temples at Mamallapuram.

• Chalukya dynasty:-

• The Chalukya dynasty ruled over parts of South and Central India from the 6th to the 12th century and were known for their architectural achievements, particularly the temples at Aihole and Pattadakal.

• Rashtrakuta dynasty:-

• The Rashtrakuta dynasty ruled over parts of Central and Southern India from the 8th to the 10th century and were known for their patronage of art and literature, particularly the Jain literature of the Kannada language.

Q50. Answer: (a) Dry climate

The correct answer is dry Climate.

Key Points

• Cotton textile industry:-

• The cotton textile industry is one of the oldest and largest industries in India, with a rich history dating back to ancient times.

• India is the second-largest producer of cotton in the world, after China.

• The textile industry in India is concentrated in several regions, including Gujarat, Maharashtra, Tamil Nadu, and Uttar Pradesh.

• Other factors that have contributed to the growth of the cotton textile industry in India include government policies, technological advancements, and the availability of finance and infrastructure.

• Dry climate is not a factor that has contributed towards localisation of the cotton textile industry in India. In fact, a moderate climate with adequate rainfall is necessary for the growth of cotton.

• Accessible port facilities have been a key factor in the development of the cotton textile industry in India, as they facilitate the export of finished goods and the import of raw materials.

• Availability of labour is also an important factor, as India has a large workforce that is skilled in textile production.

• Availability of raw cotton is another crucial factor, as India is one of the largest producers of cotton in the world.

Q51. Answer: (a) 1 : 2

Calculation

The percentage of teachers in Sanskrit and Hindi = 10 + 10 = 20%

The percentage of teachers in Mathematics and Biology = 20 + 20 = 40%

The ratio = 20:40 = 1:2

The answer is 1:2

Q52. Answer: (a) 16 cm

Given

The radius of a circle is 8 cm

Concept

Diameter is the largest chord.

Calculation

The length of its largest chord = the length of its diameter = 16

The answer is 16.

Q53. Answer: (b) 3

Formula used

$\sin 60° = \sqrt{3}/2$

$\sin 30° = 1/2$

$\sec 30° = 2/\sqrt{3}$

Calculation

$\sin 60° \sec 30° + \tan 45° \cos 0° + \sec 60° \sin 30°$

$\Rightarrow \sqrt{3}/2 \times 2/\sqrt{3} + 1 + 2 \times 1/2$

$\Rightarrow 1 + 1 + 1 = 3$

The answer is 3.

Q54. Answer: (b) 37,500

Concept used

Income = Expenditure + savings

Calculation

Let Rumi's income be 100x

Her savings = $100x \times 20/100 = 20x$

New income = $100x \times 130/100 = 130x$

New expenditure = $80x \times 140/100 = 112x$

New savings = 130x - 112x = 18x

Income decrement = 20x - 18x = 2x

$2x \rightarrow 750$

$100x \rightarrow 750 \times 50 = 37500$

The answer is 37500.

Q55. Answer: (d) 90°

Given:

$\sin\theta \cdot \sin 45° = \sin 30°$

Calculation:

$\Rightarrow \sin\theta \cdot \sin 45° = \sin 30°$

$\Rightarrow \sin\theta \cdot 1/\sqrt{2} = 1/2$

$\Rightarrow \sin\theta = \sqrt{2}/2$

$\Rightarrow \sin\theta = 1/\sqrt{2}$

$\Rightarrow \sin\theta = \sin 45°$

$\Rightarrow \theta = 45°$

Therefore $2\theta = 90°$

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The correct answer is 90°

Q56. Answer: (c) 72,980

Given :

Amount = Rs.82000

Time = 2 years

Rate = 6% per annum

Calculation :

By going through the ratio method,

Rate = 6% = 3/50

P	A
50	53
50	53
2500	2809

=> 2809 unit = 82000

=> 1 unit = 29.191

Principal amount = 2500 × 29.191 = 72979.70 ~ 72980

Therefore The correct answer is Rs.72980.

Q57. Answer: (b) 4 : 11

Therefore The ratio of mixtures is 4 : 11.

Alternate Method

Concept Used:

Use the concept of weighted average to determine the ratio in which the mixtures were combined.

Formula Used:

Weighted average formula: Final percentage = (a × percentage of mixture A + b × percentage of mixture B)/(a + b)

Calculation:

Mixture A (original): 35% syrup

Mixture B (replacement): 20% syrup

Final mixture: 24% syrup

Using the weighted average formula:

0.35 × (1 - x) + 0.20 × x = 0.24

0.35 - 0.35x + 0.20x = 0.24

0.35 - 0.15x = 0.24

0.15x = 0.35 - 0.24

0.15x = 0.11

x = 0.11/0.15 x = 11/15

Fraction of mixture A replaced = 11/15

Fraction of mixture A remaining = 1 - 11/15 = 4/15

So, the ratio of mixture A and mixture B = 4/15 : 11/15 = 4 : 11

So, the ratio in which these mixtures were mixed to obtain the new mixture is 4:11.

Q58. Answer: (c) 86.6250

Given:

In the given figure,

The radius of the circle is 21 cm.

A 22.5° angle at the centre

Concept:

Area of Sector = (angle formed by the arc/360) (area of a circle)

Solution:

Radius of circle = 21 cm

Area of circle = $\pi r^2 = (\pi)(21^2)$ cm²
Area of Sector = (angle formed by the arc/360) (area of a circle)
= (22.5/360)(π)(212) cm2
= 86.6250
The answer is 86.6250

Q59. Answer: (c) 3

Concept:
Quadratic equation is $ax^2 + bx + c$
Discriminant $D = b^2 - 4ac$
D = 0 means two real and both are identical roots
Calculation:
Here, 3x2 + 2kx + 3 = 0
Compare with standard form ax2 + bx + c
a = 3, b = 2k, c = 3
Discriminant $D = b^2 – 4ac$
=> $4k^2 - 36 = 0$
$k^2 = 36/4$
k = 3
The answer is 3.

Q60. Answer: (c) 11 13/17 %

Given:
The selling price of 34 items is equal to the cost price of 38 items.
Concept used:
Profit% = (SP - CP)/CP × 100
Calculation:
Let the cost price of each item be Rs. Q.
Cost price of 34 items = 34 × Q = Rs. 34Q
Cost price of 38 items = 38 × Q = Rs. 38Q
The selling price of 34 items = Rs. 38Q
Now, profit% = (38Q - 34Q)/34Q × 100
=> 4/34 × 100
=> 200/17%
=> 11(13/17)%
Therefore The profit percentage is 11(13/17)%

Q61. Answer: (d) 2(x + 4) (x - 4)

Given
2x2 - 32
Formula used
$a^2 - b^2 = (a + b)(a - b)$
Calculation
Taking 2 common from the equation,
$2(x^2 - 16)$
=> 2 (x - 4)(x + 4)
The answer is 2(x - 4)(x + 4).

Q62. Answer: (b) 150°

Concept:
The sum of all the angles of the triangle = 180^?
Calculation:
Let the side of the square ABCD = a

As per the question, ΔDEC is an equilateral triangle.
=> angle DEC = angle ECD = angle CDE = 60^? ------ eq (1)
=> DC = DE = CE = AD = CB = AB = a ------ eq (2)
=> angle ADE = 90^? - 60^? = 30^? (all the angles of the square = 90)
Now, AD = DE, as per eq (2)
So, ΔADE is an isosceles triangle.
=> angle DAE = angle DEA = (180 - 30)/2 = 75^?
=> angle DAE = 75?
=> Similarly, angle CBE = 75?
=> angle EAB = angle EBA = 90^? - 75? = 15^?
Therefore angle AEB = 180^? - (15^? + 15^?) = 150^?
Hence, the correct answer is Option 2).

Q63. Answer: (d) 2.16

Given:
x - 1/x = 0.4
Concept used:
(a - b)2 = a2 - 2ab + b2
Calculation:
Squaring both sides,
=> x^2 - 2 + $(1/x)^2$ = $(0.4)^2$
=> x^2 + $(1/x)^2$ = 0.16 + 2
=> x^2 + $(1/x)^2$ = 2.16
The answer is 2.16

Q64. Answer: (b) 24

Calculation
Let AB be the chord and point P be the midpoint of AB, O is the centre
Given, OB = 5 cm and OA = 13 cm
In ΔOPB
Using Pythagoras theorem
=> $(OB)^2$ = $(OP)^2$ + $(PB)^2$
=> 13^2 = 5^2 + $(PB)^2$
=> PB = √(169 - 25) = 12
As we know, AB = 2 PB
AB = 2 × 12 = 24 cm
The answer is 24 cm

Q65. Answer: (a) 3 3/5 days

Given
A and B can finish a work in 6 days and 4 days
Formula used
Work = time × efficiency
Calculation
A, alone worked for 2 days.
Work done by A in 2 days = 2/6 = 1/3
Work done by A and B in 1 day = 1/6 + 1/4 = 5/12
Let the number of days worked by both be N.
=> 5/12 × N = 1 - 1/3
N = 8/5
Total time = 2 + 8/5 = 18/5 or 3(3/5) days
The answer is 3(3/5) days.

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Q66. Answer: (a) 25.5 years

Shortcut Trick

Present ratio of Father and Son is 2 : 1 (Difference = 1 unit).

Ratio after 8.5 years is 7 : 4 (Difference = 3 units).

Multiply present ratio by 3 to equate the difference: (2 × 3) : (1 × 3) = 6 : 3.

Increase in units = 7 − 6 = 1 unit or 4 − 3 = 1 unit.

1 unit = 8.5 years => Son's present age = 3 units = 3 × 8.5 = 25.5 years.

Therefore The correct answer is 25.5 years.

Alternate Method

Given:

Present ratio (F : S) = 2 : 1

Future ratio (after 8.5 years) = 7 : 4

Let the present age of the Son be x and Father be 2x.

=> (2x + 8.5) ÷ (x + 8.5) = 7 ÷ 4

=> 4 × (2x + 8.5) = 7 × (x + 8.5)

=> 8x + 34 = 7x + 59.5

=> 8x − 7x = 59.5 − 34

=> x = 25.5

Therefore The correct answer is 25.5 years.

Additional Information

Constant Age Difference

The difference between the ages of two people always remains the same, regardless of how many years pass.

Ratio Balancing Method

When comparing ratios at two different times, ensure the difference between the ratio parts (e.g., F − S) is equal by multiplying by a suitable constant.

Linear Equation Approach

For any time 'n' years hence or ago, the age becomes (x + n) or (x − n) respectively.

Q67. Answer: (d) 2525

Given:

$x + 1/x = 5$

Formula used:

$(a + b)^2 = a^2 + 2ab + b^2$

$(a + b)^3 = a^3 + 3ab(a + b) + b^3$

Calculation:

$x + 1/x = 5$

$\Rightarrow x^2 + 1/x^2 = 5^2 – 2$

$\Rightarrow 23$

$x^3 + 1/x^3$

$\Rightarrow 5^3 – 3(5)$

$\Rightarrow 125 – 15$

$\Rightarrow 110$

$x^5 + 1/x^5 = (x^2 + 1/x^2)(x^3 + 1/x^3) – (x + 1/x)$

$\Rightarrow 23 \times 110 – 5$

$\Rightarrow 2530 – 5$

$\Rightarrow 2525$

Therefore $x^5 + 1/x^5$ is 2525.

Q68. Answer: (d) 189

Given:

The largest six-digit number exactly divisible by 294

Formula used:

Required largest n-digit no. = [(Largest n-digit no.) – (Remainder left when the largest n-digit no. is divided by the provided divisor)].

Calculation:

The largest six-digit number = 999999

Now,

The largest six-digit number divisible by 294

=> (999999/294)

Then, we get remainder = 105

=> 294 - 105

=> 189

The answer is 189.

Q69. Answer: (d) (iv)

Shortcut Trick

Scheme (i): Effective discount = 20 + 10 − (20 × 10 ÷ 100) = 28%.

Scheme (ii): Flat discount = 10%.

Scheme (iii): Discount% = [Free Items ÷ Total Items] × 100 = [4 ÷ (8 + 4)] × 100 = 33.33%.

Scheme (iv): Discount% = [Free Items ÷ Total Items] × 100 = [6 ÷ (9 + 6)] × 100 = 40%.

Comparing all, 40% is the maximum value.

Therefore The correct answer is (iv).

Alternate Method

Given → Four different discount schemes based on successive discounts and buy-get-free offers.

Formulas: Successive Discount = a + b − (ab ÷ 100) | Buy X Get Y Free Discount% = [Y ÷ (X + Y)] × 100.

=> Scheme (i): a = 20, b = 10. Discount = 20 + 10 − (200 ÷ 100) = 30 − 2 = 28%.

=> Scheme (ii): Single discount = 10%.

=> Scheme (iii): MP of 12 items = 12, CP for customer = MP of 8 items = 8. Discount = (12 − 8) ÷ 12 × 100 = 4/12 × 100 = 33.33%.

=> Scheme (iv): MP of 15 items = 15, CP for customer = MP of 9 items = 9. Discount = (15 − 9) ÷ 15 × 100 = 6/15 × 100 = 2/5 × 100 = 40%.

=> Maximum Discount: 40% (Scheme iv).

Therefore The correct answer is (iv).

Additional Information

Marked Price & Discount

Discount is always calculated on the Marked Price (MP). SP = MP − Discount.

Buy X Get Y Free Concept

In these offers, the total items given to the customer represent the MP, and the free items represent the discount value.

Q70. Answer: (c) 21

Given:

Dimensions of the metallic rectangular block is 88 cm × 21 cm × 21 cm

Concept used:

Volume of a cuboid = l × b × h

Volume of a sphere = $4/3\pi r^3$

Here,

l = length

b = breadth

h = height

r = radius

Calculation:

Let the radius of sphere be r.

According to the question,

$88 \times 21 \times 21 = 4/3 \times (22/7) \times r^3$

$\Rightarrow (88 \times 21 \times 21 \times 7 \times 3)/(22 \times 4) = r^3$

=> $r3 = 21^3$

=> r = 21

Therefore The answer is 21.

Q71. Answer: (d) Rs. 8,050

Shortcut Trick

Ratio of Marked Price (MP) to Cost Price (CP) = (100 + Profit%) : (100 − Discount%)

Ratio MP : CP = (100 + 15) : (100 − 20) = 115 : 80 = 23 : 16

Given, CP = 16 units = Rs. 5,600 => 1 unit = Rs. 350

MP = 23 units = 23 × 350 = Rs. 8,050

Therefore The correct answer is Rs. 8,050.

Alternate Method

Given: Cost Price (CP) = Rs. 5,600, Profit = 15%, Discount = 20%.

Formula Used: Selling Price (SP) = CP × (1 + Profit/100) and Marked Price (MP) = SP / (1 − Discount/100).

=> Selling Price (SP) = 5600 + (15% of 5600)

=> SP = 5600 + (15/100 × 5600) = 5600 + 840 = Rs. 6,440

=> Let Marked Price (MP) be M.

=> SP = M − (20% of M) = 80% of M

=> 6440 = (80/100) × M

=> M = (6440 × 100) / 80 = 6440 / 0.8

=> M = Rs. 8,050

Therefore, Option (4) is the correct choice as it matches the calculated Marked Price.

Therefore The correct answer is Rs. 8,050.

Additional Information

Relation between CP and MP

The direct formula is MP/CP = (100 + P%)/(100 − D%). This helps find the markup or CP/MP quickly when both profit and discount percentages are known.

Successive Discount

If two discounts d1 and d2 are given, the equivalent single discount is (d1 + d2 − (d1 × d2)/100)%.

Markup Percentage

Markup % = ((MP − CP) / CP) × 100. It represents how much the price is increased over the cost price before offering a discount.

Q72. Answer: (b) 1

Calculation

The tuition fee in P = 120

The four times the activity fee in P = 24 × 4 = 96

tuition fee > activity fee

The tuition fee in Q = 60

The four times the activity fee in Q = 12 × 4 = 48

tuition fee > activity fee

The tuition fee in R = 210

The four times the activity fee in R = 45 × 4 = 180

tuition fee > activity fee

The tuition fee in S = 90

The four times the activity fee in S = 24 × 4 = 96

tuition fee < activity fee

The tuition fee in T = 120

The four times the activity fee in T = 30 × 4 = 120

tuition fee = activity fee

The answer is only 1.

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Q73. Answer: (d) 34

Calculation

The number of television sets sold by all the showrooms in the year 2017 = 180 + 274 + 269 + 98 + 370 + 195 = 1386

The number of television sets sold by all the showrooms in the year 2019 = 264 + 107 + 237 + 225 + 282 + 237 = 1352

Difference = 1386 - 1352 = 34

The answer is 34.

Q74. Answer: (b) 27.5 m

Given:

A train running at 26.5 km/h takes 18 s to pass a platform.

Next, it takes 12 s to pass a man walking at 5 km/h in the opposite direction.

Concept used:

Relative speed is the sum of their individual speeds while two bodies are coming from the opposite direction.

1m/s = 18/5 km/h

Time × Speed = Distance

Calculation:

Total distance = 26.5 × 5/18 × 18 = 132.5 m

Hence, the relative speed of the train and the person

=> 26.5 + 5 = 31.5 km/hr

Length of train = 31.5 × 5/18 × 12

=> 105 m

Thus, the length of the platform = 132.5 - 105 = 27.5 m

Therefore The length of the platform is 27.5 m.

Q75. Answer: (c) 31/25

Given

In ΔOPQ, right-angled at P, OP = 7 cm and OQ - PQ = 1 cm.

Formula used

sin Q = P/H and cos Q = B/H

Calculation

Since it is a right-angled triangle,

$OQ^2 = OP^2 + PQ^2$

=> OQ2 - PQ2 = OP2

=> (OQ - PQ)(OQ + PQ) = 7^2

=> (1)(OQ + PQ) = 72

=> (OQ + PQ) = 49

OQ = (49 + 1)/2 = 25

PQ = (49 - 1)/2 = 24

sin Q = P/H = 7/25

cos Q = B/H = 24/25

sin Q + cos Q = 7/25 + 24/25 = 31/25

The answer is 31/25

Q76. Answer: (a) Dare

The solution is in Hindi. Read it online.

Q77. Answer: (d) Promote

The solution is in Hindi. Read it online.

Q78. Answer: (c) broke into

The solution is in Hindi. Read it online.

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Q79. Answer: (a) Dermatology

The solution is in Hindi. Read it online.

Q80. Answer: (b) extremely nervous or anxious

The solution is in Hindi. Read it online.

Q81. Answer: (d) retain anonimity while

The solution is in Hindi. Read it online.

Q82. Answer: (a) ACBD

The correct answer is "ACBD."

Key Points

• The sentence talks about the importance of dealing with small events in life.
• The subject of the sentence is "human life", so the first part must be A.
• The next part must be C as it provides the predicate "comparatively unimportant."
• The next part of the sentence starts with B, as it is having "and."
• The sentence uses a complex sentence structure with multiple clauses.
• The next part must be D as it provides the object to the sentence.
• The correct answer is Option 1.

Correct sentence: Human life consists of a succession of small events each of which is comparatively unimportant, and yet the happiness and success of every man depends upon the manner in which these small events are dealt with.

Q83. Answer: (d) Our teachers have planned a picnic

The correct answer is "Our teachers have planned a picnic."

Key Points

• The error lies in the part, "Our teachers has planned of going for a picnic."
• The subject "teachers" is plural, so the correct verb form is "have planned."
• The sentence is in the present perfect tense, indicating that the planning has already taken place.
• So, there is no need to use "of going for a picnic."
• The correct answer is option 4.

Correct sentence: Our teachers have planned a picnic to the Doon Valley.

Q84. Answer: (b) The cake was kept in the refrigerator by Austin.

The correct answer is "The cake was kept in the refrigerator by Austin."

Key Points

• The given sentence is in the Active Voice. As per the given question, we have to change it intothe Passive Voice.
• The structure of the given sentence is as follows:
• Subject + V2 + Object. (Active Voice)
• Subject (objective case)+ was/were + V3 + Object (subjective case). (Passive Voice)
• Example:
• Their cousin showed them some rare photographs. (Active Voice)
• They were shown some rare photographs by their cousin. (Passive Voice)
• The subject of the given sentence is 'Austin'.
• The object of the given sentence is 'cake'.
• The subject will be put in place of the object and the object will be put in place of the subject.
• Kept' will be changed into 'was kpet'.
• "Cake" is a singular subject and we must use "was" with it.
• The preposition "by" is used to indicate the doer of the action in the passive voice.
• Therefore, as per the points mentioned above, we find that the correct answer is Option 2.

Correct sentence: The cake was kept in the refrigerator by Austin.

Q85. Answer: (a) due to his hard work and dedication

The correct answer is "due to his hard work and dedication."

Key Points

• The error lies in the phrase "due to their hard work and dedication."

• The pronoun "their" is incorrect because it is not clear if the new employee is male or female.

• The correct pronoun to use is "his" because it agrees with the singular noun "employee."

• "Due to" is a correct phrase to indicate the reason for the promotion.

• "His hard work and dedication" is a clear and concise way to express the reason for the promotion.

• The correct answer is Option 1.

Correct sentence: The new employee was quickly promoted due to his hard work and dedication.

Q86. Answer: (c) A, C, D, B

The correct answer is A, C, D, B.

Key Points

• The paragraph begins with the statement that the nation has made progress in various areas over the last seven decades. So the first sentence must be A.

• It then goes on to say that the biggest challenges of healthcare and education are still not fully achieved, so C must follow A.

• The next sentence talks about the reasons for this, which are partially known and partially speculative. So, D must follow C.

• Finally, the paragraph concludes by suggesting that neglect and insufficient funding for healthcare and education might be contributing factors

• So, the last sentence must be B.

• The correct answer is Option 3.

• Correct sequence:

A. The nation has flourished a lot in many areas during last seven decades.

C. But the biggest ever challenges of healthcare and education are still not achieved in their true sense.

D. Specific reasons are partially known and the rest is speculation about it.

B. The truth is perhaps partial neglect and insignificant place given in the budgetary allocations by the ruling governments

Q87. Answer: (a) rejected

The solution is in Hindi. Read it online.

Q88. Answer: (b) despicable

The solution is in Hindi. Read it online.

Q89. Answer: (d) I am

Here, the erroneous part is "I am."

Key Points

• The segment "I am" contains a grammatical error.

• The use of "since morning" is correct to indicate the duration of time.

• "Since morning" indicates the duration, so the present perfect continuous tense ("have been walking") is appropriate for describing an action that started in the past and continues into the present.

• The correct answer is Option 4.

Correct sentence: I have been walking in the Cross Road Garden since morning.

Q90. Answer: (d) No other physiologist of the century was as great as he was.

The correct answer is "No other physiologist of the century was as great as he was."

Key Points

• The given sentence is in a comparative degree, comparing the greatness of the mentioned physiologist to all other physiologists of the century.

• To convert it to a positive degree, we need to state that the mentioned physiologist was the greatest of all.

• The correct option, Option 4, does this by stating that no other physiologist of the century was as great as he was.

• Option 1 is incorrect as it states that all other physiologists were as great as him, which is not the intended meaning of the sentence.

• Option 2 is the correct positive degree form, but it is not an exact rephrasing of the given sentence, which makes it less suitable than Option 4.

• Option 3 is incorrect as it narrows down the comparison to only the country, while the original sentence compares the mentioned physiologist to all other physiologists of the century.

• The correct answer is Option 4.

Correct sentence: No other physiologist of the century was as great as he was.

Q91. Answer: (d) define

The solution is in Hindi. Read it online.

Q92. Answer: (c) A short nap

The solution is in Hindi. Read it online.

Q93. Answer: (c) Skilful

The solution is in Hindi. Read it online.

Q94. Answer: (c) The letter will be posted by the peon.

The correct answer is "The letter will be posted by the peon."

Key Points

• The given sentence is in the Simple Future Tense and in Active Voice.

• The rule for changing a Simple Future Tense from Active voice to Passive voice:

• Interchange the object and subject with each other, i.e. object of the active sentence become the subject of the passive sentence.

• Structure:

• Subject + will + V1 + object (Active Voice)

• Object + will + be + V3 + by Subject (Passive Voice)

• Example:

• Esha will sing a song. (Active Voice)

• A song will be sung by Esha. (Passive Voice)

• The subject is "peon" and the object is "letter" in the active voice.

• The subject is "letter" and the object is "peon" in the passive voice.

• Therefore, the correct answer is Option 3.

Correct sentence: The letter will be posted by the peon.

Q95. Answer: (d) subsequently

The solution is in Hindi. Read it online.

Q96. Answer: (a) affects

The solution is in Hindi. Read it online.

Q97. Answer: (d) vary

The solution is in Hindi. Read it online.

Q98. Answer: (d) impact

The solution is in Hindi. Read it online.

Q99. Answer: (d) disrupt

The solution is in Hindi. Read it online.

Q100. Answer: (d) felt

The solution is in Hindi. Read it online.

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