SSC CHSL Tier-1 2023: Official Paper (Held On: 03 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 number can replace the question mark (?) in the following series?

1, 10, 28, 55, 91, 136?

(a) 190
(b) 191
(c) 192
(d) 195

Q2. Select the set in which the number are related in the same way as are the numbers of the following sets.

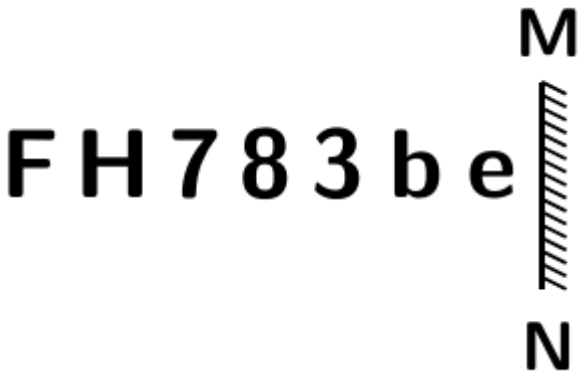
(NOTE: Operation should be performed on whole number; without breaking down the numbers into their constituent digits. E.g. 13 - Operation on 13 such as adding/subtracting/multiplying, etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operation on 1 and 3 is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

(162, 9, 18)

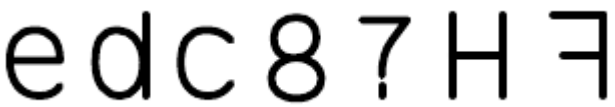
(231, 11, 21)

(a) (336, 28, 12)
(b) (270, 12, 23)
(c) (314, 19, 16)
(d) (296, 21, 14)

Q3. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



Q4. 125 is related to 50 in a certain way. Following the same logic, 230 is related to 92. To which of the following is 315 related, Following the same logic

(a) 145
(b) 135
(c) 120
(d) 126

Q5. What should come in place of X in the given series?

4 11 25 46 74 X

(a) 105
(b) 109
(c) 111
(d) 107

Q6. In a certain code language,

A + B means 'A is the son of B'

A - B means 'A is the sister of B'

A × B means 'A is the mother of B'

A ÷ B means 'A is the brother of B'.

Based on the above, how is P related to S if 'P × Q ÷ R - T + S'?

(a) Father's mother
(b) Sister
(c) Wife
(d) Mother

Q7. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged with '×' and '÷', respectively?

18 × 17 + 4 ÷ 22 - 2 = ?

(a) 81
(b) 75
(c) 70
(d) 64

Q8. Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order.

ADE, CFH, EHK, GJN, ?

(a) IJK
(b) HKQ
(c) ILK
(d) ILQ

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Q9. In a certain code language, 'FLORENCE' is coded as '86' and 'GRATITUDE' is coded as '114'. How is 'FOREIGN' coded in the given language?

(a) 74
(b) 77
(c) 81
(d) 79

Q10. What should come in place of ? in the given series based on the English alphabetical order?

MXU QCA UHG YMM ?

(a) BQT
(b) CRS
(c) BRT
(d) DUO

Q11. What will come in the place of ' ?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

15 ÷ 5 + 12 × 3 - 5 = ?

(a) 96
(b) 66
(c) 76
(d) 86

Q12. In a certain code language

A + B means 'A is the wife of B',

A - B means 'A is the brother of B',

A × B means 'A is the sister of B'.

A ÷ B means 'A is the father of B'.

Based on the above, how is P related to N if 'P - B × V ÷ N + E'?

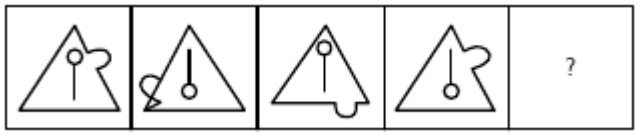
(a) Husband's son
(b) Mother's brother
(c) Father's brother
(d) Husband's brother

Q13. Select the option that represents the combination of letter that, when sequentially placed from left to right in the blanks below, will complete the letter-series.

_cdd_dd_ddc_

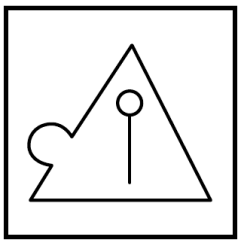
(a) dccd
(b) cddc
(c) cdcd
(d) dcdc

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



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(a)



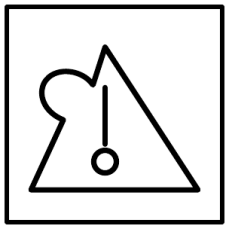
(b)



(c)



(d)



Q15. In a certain code language 'all kings are beautiful' is coded as '42 63 mo ule, and 'all queens are beautiful' is coded as 'mo ule, 63 36, How is 'kings' coded in the given language?

(a) 63
(b) 24
(c) lue
(d) 42

Q16. Read the given statements and conclusions carefully. Assuming that the information given in the statement 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 keys are scales

All books are papers.

All scales are papers.

Conclusions:

(i) No books are keys.

(ii) Some papers are keys.

(a) Bothe conclusions (I) and (II) follow
(b) Only conclusion (I) follows
(c) Only conclusion (II) follows

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(d) Neither conclusion (I) nor (II) follows

Q17. Which term from among the given options can replace the question mark (?) in the following series to make it logically complete?

BV 101, ? DX 109, EY 113, FZ 117

(a) CW 105
(b) CV 104
(c) CW 106
(d) CV 107

Q18. Select the option in which the number do NOT share the same relationship as that shared by the given pairs of number.

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

(a) 3 : 38
(b) 7 : 354
(c) 6 : 212
(d) 5 : 136

Q19. Which of the following letter-clusters will replace the question mark(?) in the given series to make it logically complete?

MY 27, KZ 64, ? GB 216, EC 343

(a) JB 81
(b) JA 81
(c) IA 125
(d) HB 100

Q20. If 6 November 1925 is Friday, then what will be the day of the week on 16 December 1933?

(a) Monday
(b) Friday
(c) Thursday
(d) Saturday

Q21. UOKG is related to VPLH in a certain way based on the English alphabetical order. In the same way, KQWY is related to LRXZ To which following is AMSW related to following the same logic?

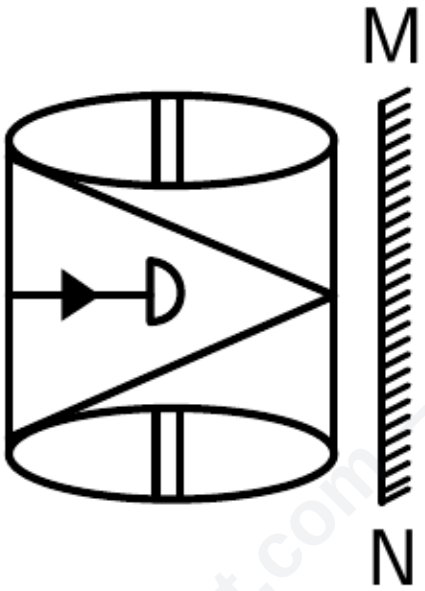
(a) BNTX
(b) WKTC
(c) BOTY
(d) ZMRW

Q22. 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.

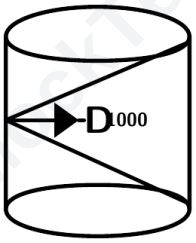
(a) 15 - 225
(b) 19 - 361
(c) 9 - 81
(d) 4 - 64

Q23. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

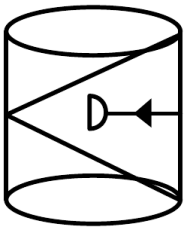
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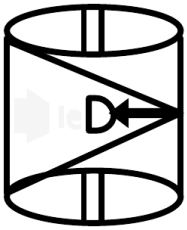
(a)



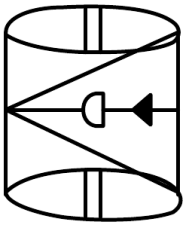
(b)



(c)



(d)



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Q24. 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 pencils are cartoons.

All cartoons are rivers.

All rivers are shadows

Conclusions:

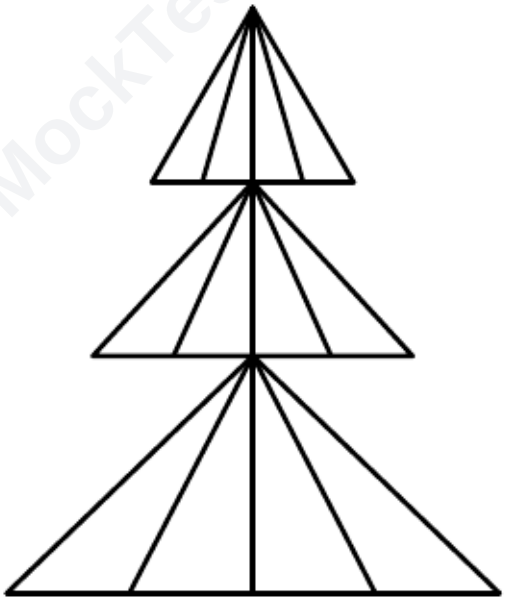
(I) All pencils are shadows

(II) All cartoons are shadows

(III) Some shadows are pencils.

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

Q25. Identify the number of triangles in the given figure.



(a) 22
(b) 30
(c) 26
(d) 28

GENERAL INTELLIGENCE

Q26. Who founded the Chola empire?

(a) Dantidurga
(b) Singhavishnu
(c) Upendrarai
(d) Vijayalaya

Q27. Arvind Parikh is associated with which of the following musical instruments?

(a) Shehnai
(b) Mridangam
(c) Tabla
(d) Sitar

Q28. India's first and the world's second 100% methanol-powered prototype truck was unveiled in_____

(a) Bengaluru
(b) Delhi
(c) Hyderabad
(d) Chennai

Q29. Onam is a state festival of_____

(a) Gujarat
(b) Karnataka
(c) Goa
(d) Kerala

Q30. Which of the following is NOT an objective of the National Rehabilitation and Resettlement Policy (2007) of the Government of India?

(a) To maximise the focus on rehabilitation without really caring for resettlement
(b) To integrate rehabilitation concerns into the development planning and implementation process
(c) To minimise displacement and to promote, as far as possible, non-displacing or least-displacing alternatives
(d) To provide a better standard of living, making concerted efforts for providing sustainable income to the affected families

Q31. What is the purpose of the Earth's magnetic field?

(a) To provide an energy source for life on Earth
(b) To control the Earth's climate
(c) To shield the Earth from solar wind and cosmic radiation
(d) To cause the tides in the ocean

Q32. Which mineral salt is dissolved in a major amount in ocean water?

(a) Calcium chloride
(b) Calcium carbonate
(c) Sodium chloride
(d) Calcium sulphate

Q33. X and Y are working as managers in a restaurant but they receive unequal pay for the same work. Which Article of the Directive Principles of State Policy provides for equal pay for equal work?

(a) Article 38
(b) Article 41
(c) Article 39
(d) Article 40

Q34. Which of the following is NOT a characteristic of National Highways in India?

(a) Meant for inter-state transport
(b) Connect state capitals and major cities
(c) Construction of border roads in high altitude areas
(d) Maintained by the Central Government

Q35. The Government Budget is a statement of estimates of the government receipts and government expenditure for the coming financial year. The financial year for India is the period from ___to____

(a) January 1 to December 31
(b) February 1 to January 31
(c) October 1 to August 31
(d) April 1 to March 31

Q36. Which part of a cell converts nutrients into energy?

(a) Cell membrane
(b) Lysosomes
(c) Mitochondria

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(d) Chromosome

Q37. At the Sportster East sports conclave 2023, which Indian women's cricket player received the Emerging Hero award?

(a) Richa Ghosa
(b) Harleen Deol
(c) Deepti Sharma
(d) Titas Sadhu

Q38. Which of the following schemes aims to provide an integrated property validation solution for rural India?

(a) WDF
(b) SVAMITVA
(c) NRLM
(d) PCGS

Q39. What is the monomer unit of glycogen?

(a) Fructose
(b) Glucose
(c) Galactose
(d) Mannose

Q40. Which of these statements is INCORRECT about Human Development Index?

(a) The level of education is represented in the HDI
(b) It uses the per capita GDP of a country on purchasing power parity terms to represent the income component.
(c) Birth rate and death rate important components of the HDI
(d) Life expectancy at birth is one of the components of the HDI.

Q41. Which of the following noble ideals is mentioned in the preamble of the Indian Constitution?

(a) Liberty of expression, civil, political, worship and belief
(b) Liberty of thought, expression, belief, faith and worship
(c) Liberty of belief, fiscal, personal, faith and worship
(d) Liberty of opportunity, economic, social, faith and expression

Q42. In which language was the work of Raja Ram Mohan Roy, 'Gift to Monotheists' originally written?

(a) Arabic
(b) Persian
(c) Bengali
(d) Sanskrit

Q43. According to Census of India 2011, what is the decadal population growth rate?

(a) 16.2%
(b) 17.2%
(c) 16.7%
(d) 17.7%

Q44. With which of the following awards was Kuchipudi dancer V Satyanarayana Sarma honoured

(a) Kalidas Samman
(b) Kabir Puraskar
(c) Padma Shri
(d) Moortidevi Award

Q45. Which of the following is the best estimate of the total borrowings by the government?

(a) Primary Deficit
(b) Revenue Receipts
(c) Money Supply
(d) Fiscal Deficit

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Q46. In which year was the Twenty Point Programme (TPP) launched?

(a) 2006
(b) 1975
(c) 1986
(d) 1982

Q47. The number of gold medals won by India at the Tokyo olympics 2020 is_____

(a) two
(b) three
(c) four
(d) one

Q48. Dhimsa folk dance is performed by the tribes of:

(a) Solan Valley
(b) Araku Valley
(c) Ketti Valley
(d) Parvati Valley

Q49. In September 2022, Neeraj Chopra became the first Indian to win the Diamond League by winning the Diamond League Final 2022 title at Zurich with a throw of_____

(a) 90.08 m
(b) 88.44 m
(c) 97.02 m
(d) 89.08 m

Q50. Which of the following states receives rainfall during the retreating monsoon?

(a) Madhya Pradesh
(b) Gujarat
(c) Bihar
(d) Tamil Nadu

QUANTITATIVE APTITUDE

Q51. The divisor is 10 times the quotient and 5 times the remainder in a division sum. What is the dividend if the remainder is 46?

(a) 5972
(b) 4286
(c) 4874
(d) 5336

Q52. A sum amounts to Rs. 6,120 in 2 years and Rs. 7,340 in 3 years at compound interest. The sum (in Rs.) is (rounded off to 2 decimal places):

(a) 4,050.13
(b) 4,254.63
(c) 4,850.32
(d) 4,560.23

Q53. The value of $(\text{cosec}^2 B - 1)(\sec^2 B - 1)$ is

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

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Q54. If $\sin\theta + \cos\theta = 1/29$, find the value of $(\sin\theta+\cos\theta)/(\sin\theta-\cos\theta)$

(a) 1/41
(b) 43/29
(c) 41/29
(d) 1/43

Q55. In a circle with radius 20 cm, X is a point located at a distance of 29 cm from the centre of the circle, what will be the length (in cm) of a tangent drawn from point X to the circle?

(a) 23
(b) 20
(c) 21
(d) 18

Q56. A profit earned by selling an article for Rs. 1,032 is equal to the loss incurred when the same article is sold for Rs. 648. What should be the selling price of the article if the profit is 30%?

(a) Rs. 2,520
(b) Rs. 1,050
(c) Rs. 1,092
(d) Rs. 998

Q57. Find the volume of the largest possible sphere circumscribed by a cube of edge 7 cm

(a) 179.67 cm^3
(b) 169.67 cm^3
(c) 189.67 cm^3
(d) 199.67 cm^3

Q58. Two parallel lines touch the circles at P and Q. Area of the circle is 154 cm^2. Find the length of PQ (Take $\pi = 22/7$)

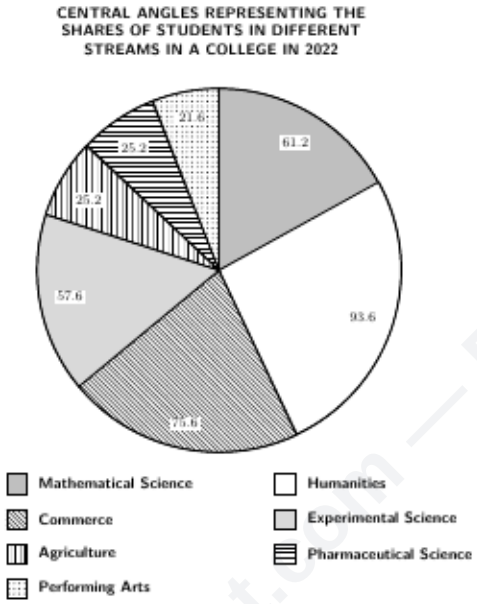
(a) 58.2 cm
(b) 14 cm
(c) 7 cm
(d) 77 cm

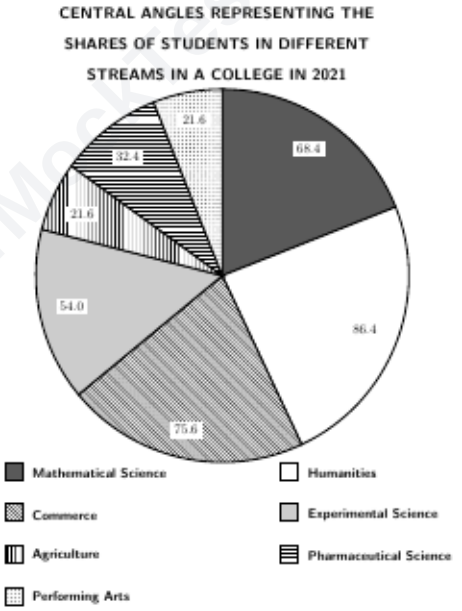
Q59. Which option with given sides forms a Triangle?

(a) 8, 6, 9
(b) 100, 200, 300
(c) 10, 25, 11
(d) 8, 2, 6

Q60. The shares of students studying in different streams of a college in the years 2021 and 2022 are as reflected in two pie charts given below.

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The total number of students who opted for humanities in the college was 15600 in both the given years. What was the percentage change in the total number of students in the college from 2021 to 2022? [Give your answer correct to the nearest integer value]

(a) 6%
(b) 8%
(c) 9%
(d) 7%

Q61. In a triangle DEF, DP is the bisector of angle D, meeting EF at P. If DE = 14 cm, DF = 21, and EF = 9, cm, find EP.

(a) 3.6 cm
(b) 5.4 cm
(c) 6.3 cm
(d) 2.7 cm

Q62. Mohan completed a certain journey by car. If he covered 30% of the distance at 90 km/h, 45% of the distance at 135 km/h and the remaining distance at 75 km/h. His average speed (in km/h) for the entire journey is:

(a) 100
(b) 90
(c) 105

(d) 95

Q63. The price of a certain mobile set is discounted by 10% and the reduced price is then discounted by 10%. This series of successive discounts is equivalent to a single discount of:

(a) 17%
(b) 16%
(c) 19%
(d) 18%

Q64. Rajinder drives his car at an average speed of 40 km per hour to cover half of his total distance and thereafter he increase his speed to 60 km per hour. He covers his journey in 7 hours. What is the average speed of Rajinder in this journey?

(a) 52 km per hour
(b) 48 km per hour
(c) 50 km per hour
(d) 54 km per hour

Q65. Babita is 1.25 times as efficient as Deepak Working together the duo can complete a piece of work in 40 days. In how many days can Deepak alone complete the same piece of work?

(a) 84
(b) 90
(c) 96
(d) 100

Q66. Find the fourth proportion to 0.24, 0.6 and 20.

(a) 50
(b) 24
(c) 54
(d) 48

Q67. Simplify the given expression. (4913+343)/(289+49-119)

(a) 24
(b) 26
(c) 22
(d) 20

Q68. A contractor employed 69 workers to complete a work in 20 days. How many more workers he should employ to complete the work in 12 days?

(a) 115 workers
(b) 46 workers
(c) 51 workers
(d) 64 workers

Q69. If p + q + r = 0, then what is the simplified value of the expression

$((p^2)/(p^2-qr)+(q^2)/(q^2-pr)+(r^2)/(r^2-pq))$

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

Q70. If $(z+1/Z)=4$, then what will be the value of $1/2(z^2+1/(z^2))$?

(a) 14
(b) 16
(c) 7
(d) 8

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Q71. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

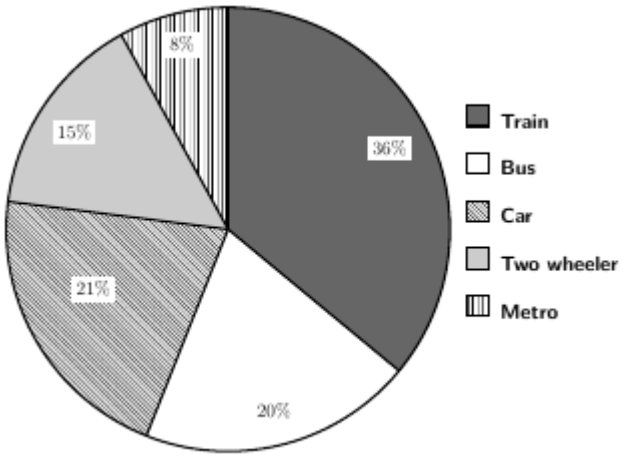
The number in the brackets gives the maximum marks in each subject.

	Subject (Max. Marks)					
Students	Maths	Chemistry	Physics	Geography	History	Computer Science
(150)	(130)	(120)	(100)	(60)	(40)	
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

How many students secured more than 70% marks in Geography?

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

Q72. Pie chart represents the modes of transport used by different employees in a university.



The Central angle of the sector for officers using two wheeler is:

(a) 72°
(b) 46°
(c) 36°
(d) 54°

Q73. If cot B = 15/8, where B is an acute angle, what is the value of sec B + tan B?

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

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Q74. A trader allows a 40% discount on his goods, but he loss 30% on them. Find the percentage of the marked price above the cost price.

(a) 152/3 %
(b) 151/3% %
(c) 162/3 %
(d) 161/3% %

Q75. Sudesh is the owner of a multipurpose shop. For a specific month, his profits are detailed below.

Category	Profit earned in Rs.
Groceries	50,000
Cosmetics	20,000
Ladies' dresses	10,000

In order to estimate the expected profit for the next month, he assigns the weights of 6, 5 and 8 to the different categories in the same order.

What will be the weighted average of his profits?

(a) Rs. 25,265.18 (nearly)
(b) Rs. 24,863.16 (nearly)
(c) Rs. 25,163.16 (nearly)
(d) Rs. 25,263.16 (nearly)

GENERAL AWARENESS

Q76. Choose the best substitute for the bracketed segment in the following sentence to complete the sentence meaningfully.

(No sooner did she shouted), than the thieves ran away leaving all the jewellery on the table.

(a) No sooner do she shouts
(b) No sooner does she shout
(c) No sooner had she shout
(d) No sooner did she shout

Q77. Select the option that expresses the given sentence in active voice.

Mathematical problems are never solved daily by him.

(a) He never solves mathematical problems daily
(b) He has solved never mathematical problems daily.
(c) He solve never mathematical problems daily.
(d) He solves never mathematical problems daily.

Q78. Parts of the following sentence have been given as options. Select the option that contains an error.

My colleages have lacked the conscience needed to be morally correct on this grave issue.

(a) conscience
(b) colleages
(c) morally
(d) grave

Q79. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

When Mayank came, / I shall go / with him to / the circus.

(a) with him to
(b) When Mayank came
(c) I shall go
(d) the circus

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

Bite the bullet

(a) To take a risk
(b) To enjoy something immensely
(c) To endure a painful situation
(d) To criticise someone harshly

Q81. Select the most appropriate ANTONYM of the given word.

Awkward

(a) Graceful
(b) Meaningful
(c) Innocent
(d) Huge

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

On the day of independence, a jubilant crowd from all over the country cheered and wept.

(a) Triumphant
(b) Cryptic
(c) Elated
(d) Gloomy

Q83. Select the most appropriate option that can substitute the underlined words in the following sentence.

It is raining a lot in April and May, but the summer is very dry.

(a) was raining a lot on
(b) will rains a lot of
(c) rains a lot in
(d) rain a lot at

Q84. Select the option that can be used as a one-word substitute for the given group of words.

A person who conforms to accepted behaviour or established practices

(a) Psychologist
(b) Conformist
(c) Socialist
(d) Rebelist

Q85. Select the most appropriate ANTONYM of the underlined word in the following sentence.

The fields remained barren despite the efforts of the local administration and agricultural scientists.

(a) Sterile
(b) Unforgiving
(c) Damp
(d) Fertile

Q86. Identify the correct spelling of the underlined word.

It is considered a great phenamina in the field of economics.

(a) phinomina
(b) fenomena
(c) phynamena
(d) phenomenon

Q87. Select the most appropriate ANTONYM of the given word.

Serendipity

(a) Tangibility
(b) Misfortune
(c) Permanency

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(d) Tranquillity

Q88. Select the most appropriate ANTONYM of the given word.

Glad

(a) Jive
(b) Innocent
(c) Sad
(d) Haunt

Q89. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. It included a carbon tax on fossil fuels and incentives for businesses and individuals to adopt green practices.

B. The new policy aimed to reduce carbon emissions and promote renewable energy sources.

C. However, supporters of the policy argued that it was necessary to address the urgent threat of climate change and create a sustainable future for the planet.

D. The policy faced opposition from some industries and political groups who argued that it would hurt the economy.

(a) BADC
(b) BCAD
(c) DABC
(d) DACB

Q90. Select the option that can be used as a one-word substitute for the underlined segment.

The music filled the room with a lot of happiness, expressing joyful melodies that brought smiles to everyone's faces

(a) surprise
(b) joy
(c) excitement
(d) fear

Q91. Select the option that expresses the following sentence in active voice.

A play is being staged by our group this evening.

(a) A play staged our group this evening.
(b) Our group stages a play this evening.
(c) Our group is staging a play this evening.
(d) Our group staged a play this evening.

Q92. Select the most appropriate ANTONYM of the given word.

Grave

(a) Native
(b) Frivolous
(c) Foreign
(d) Serious

Q93. Select the option that can be used as a one-word substitute for the given group of words.

The constitutional right to vote

(a) Franchise
(b) Polling
(c) Voting
(d) Buttoning

Q94. Select the most appropriate idiom for the given situation.

Aurangzeb, the famous Mughal ruler, found that he had caught someone more powerful than him in the form of the brave Maratha, Shivaji.

(a) Nipping in the bud
(b) Charging the hands

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(c) Catching a tartar
(d) Blazing the trail

Q95. Select the most appropriate option that can substitute the underlined segment in the given sentence.

I don't think he can dance as wellest Elena.

(a) weller than
(b) wellest
(c) as well as
(d) well than

Directions

Read the given passage and answer the questions that follow.

Such examples of commercial success, of innovation, drive, vision, determination, adaptability, and adventure are anchored in the basic Indian openness to, and talent for, acquiring material wealth. For every success story there are, of course, dozens of failures. Traditional Indian firms have their strengths, but also their weaknesses, and of these perhaps the most debilitating are a lack of team work and a weakness for quick profit. These reflect ingrained ways of thinking and planning, as does the distrust of anyone outside the family, which inhibits the adoption of modern practices of management. But such weaknesses are more than compensated for by the desire to succeed, which is probably more intense in India, given the omnipresent fear of poverty, the cut-throat competition for each opportunity, and the asphyxiating hold of hierarchy.

Q96. What has the Indian talent for acquiring material wealth led to?

(a) Commercial success, stagnation, innovation
(b) Adaptability, quick profit, opportunity
(c) Commercial success, innovation, adaptability
(d) Determination, team work, adventure

Q97. What are the weaknesses of traditional Indian firms?

(a) Ingrained ways of thinking and adoption of modern practices of management
(b) A weakness for quick profit and the openness to acquiring wealth
(c) A lack of team work and the cut-throat competition
(d) A lack of team work and a weakness for quick profit

Q98. Why is the desire to succeed more intense in India?

(a) Due to the hold of hierarchy, fear of poverty, and a lack of team work
(b) Due to fear of poverty, a lack of team work and distrust of the outsider
(c) Due to cut-throat competition, distrust of the outsider and fear of poverty
(d) Due to fear of poverty, cut-throat competition, and the hold of hierarchy

Q99. Select the most appropriate ANTONYM of the given word with reference to its usage in the passage.

Debilitating

(a) Enfeebling
(b) Crippling
(c) Invigorating
(d) Undermining

Q100. Select the most appropriate synonym of the given word with reference to its usage in the passage.

Asphyxiating

(a) Emancipating
(b) Liberating
(c) Smothering
(d) Unfettering

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 190

The logic followed here is:

So, '190' will replace the question mark in the given series.

Hence, the correct answer is "Option 1".

Q2. Answer: (a) (336, 28, 12)

The logic followed here is:

Logic: 2nd number × 3rd number = 1st number.

Now,

For, (162, 9, 18)

=> 9 × 18 = 162.

For, (231, 11, 21)

=> 11 × 21 = 231.

Similarly, for (336, 28, 12)

=> 28 × 12 = 336.

Hence, the correct answer is "Option 1".

Q3. Answer: (a) [figure]

The correct mirror image of the given figure is:

Hence, the correct answer is "Option 1".

Q4. Answer: (d) 126

The logic followed here is:

Logic: 1st number ÷ 2.5 = 2nd number.

Now,

For, 125 is related to 50

=> 125 ÷ 2.5 = 50.

For, 230 is related to 92

=> 230 ÷ 2.5 = 92.

Similarly, for 315 is related to

=> 315 ÷ 2.5 = 126.

Hence, the correct answer is "Option 4".

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Q5. Answer: (b) 109

The logic followed here is:

So, '109' will replace the question mark in the given series.

Hence, the correct answer is "Option 2".

Q6. Answer: (c) Wife

Family Chart:

Decoding the Symbols:

Symbol	•	•	×	÷
Meaning	Son	Sister	Mother	Brother

Given: P × Q ÷ R - T + S

It means: P is the Mother of Q, Q is the Brother of R, R is the Sister of T, T is the Son of S.

So, P is the 'Wife' of S.

Hence, the correct answer is "Option 3".

Q7. Answer: (b) 75

BODMAS Table:

Given equation: 18 × 17 + 4 ÷ 22 - 2 = ?

Now, if '+' and '-' are interchanged with '×' and '÷' respectively, then:

sign	•	•
Interchanged	×	÷

=> 18 + 17 × 4 - 22 ÷ 2 = ?

=> 18 + 17 × 4 - 11 = ?

=> 18 + 68 - 11 = ?

=> 86 - 11 = 75.

Hence, the correct answer is "Option 2".

Mistake Points

In the given question it is given that if '+' and '-' are interchanged with '×' and '÷', respectively. Here the word respectively is given which means that + is interchanged with '×' and '-' interchanged with '÷'.

Q8. Answer: (d) ILQ

The logic followed here is:

So, 'ILQ' will replace the question mark in the given series.

Hence, the correct answer is "Option 4".

Q9. Answer: (c) 81

The logic followed here is:

Logic: (Sum of the place value of all numbers) + Number of letter in that word = Code of the word.

'FLORENCE' is coded as '86'

=> (6 + 12 + 15 + 18 + 5 + 14 + 3 + 5) + 8

=> 78 + 8 = 86.

'GRATITUDE' is coded as '114'

=> (7 + 18 + 1 + 20 + 9 + 20 + 21 + 4 + 5) + 9

=> 105 + 9 = 114.

Similarly, for 'FOREIGN'

=> (6 + 15 + 18 + 5 + 9 + 7 + 14) + 7

=> 74 + 7 = 81.

So, 'FOREIGN' will be coded as '81'.

Hence, the correct answer is "Option 3".

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Q10. Answer: (b) CRS

The logic followed here is:

So, 'CRS' will replace the question mark in the given series.

Hence, the correct answer is "Option 2".

Q11. Answer: (c) 76

BODMAS Table:

Given equation: 15 ÷ 5 + 12 × 3 - 5 = ?

Now, if '+' and '-' and '×' and '÷' are interchanged, then:

=> 15 × 5 - 12 ÷ 3 + 5 = ?

=> 15 × 5 - 4 + 5 = ?

=> 75 - 4 + 5 = ?

=> 80 - 4 = 76.

Hence, the correct answer is "Option 3".

Q12. Answer: (c) Father's brother

Family Chart:

Decoding the Symbols:

Symbol	•	•	×	÷
Meaning	Wife	Brother	Sister	Father

Given: P - B × V ÷ N + E

It means: P is the Brother of B, B is the Sister of V, V is the Father of N, N is the wife of E.

So, P is the 'Father's brother' of N.

Hence, the correct answer is "Option 3".

Q13. Answer: (a) dccd

The logic followed here is:

Given Sequence: _cdd_dd_ddc_

Now, putting the letters in the blank spaces given in the option one by one:

Option 1) dccd → dcd / dcd / dcd / dcd

Here, 'Option 1' followed a pattern.

Option 2) cddc → ccd / ddd / ddd / dcc

Option 3) cdcd→ ccd / ddd / dcd / dcd

Option 4) dcdc → dcd / dcd / ddd / dcc

Hence, the correct answer is "Option 1".

Q14. Answer: (a) [figure]

The logic followed here is:

Logic: The curve part of the 'Triangles' are getting rotates in anti-clockwise direction.

And, The symbol 'Lollypop' is getting flipped by 180 degree to the next images.

Hence, the correct answer is "Option 1".

Q15. Answer: (d) 42

The logic followed here is:

'all kings are beautiful' is coded as '42 63 mo ule'

'all queens are beautiful' is coded as 'mo ule, 63 36',

Here, 'all are beautiful' is common in both the statement, so the remaining number is the code for the remaining word.

So, 'King' will be coded as '42'.

Hence, the correct answer is "Option 4".

Q16. Answer: (c) Only conclusion (II) follows

Given Statements:

Some keys are scales

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All books are papers.

All scales are papers.

The least possible Venn diagram for the given statement is:

Conclusions:

I. No books are keys - False (Because, No definite relation given between books and keys, so it can be possible only).

II. Some papers are keys - True (Because, Some keys are scales and All books are papers, so those part of keys which is scales will also papers).

So, Only conclusion II follows.

Hence, the correct answer is "Option 3".

Q17. Answer: (a) CW 105

The logic followed here is:

So, 'CW 105' will replace the question mark in the given series.

Hence, the correct answer is "Option 1".

Q18. Answer: (c) 6 : 212

The logic followed here is:

Logic: (1st number)^3 + 11 = 2nd number.

Now, checking the options:

Option 1) 3 : 38

→ 3^3 + 11 → 27 + 11 = 38.

Option 2) 7 : 354

→ 73 + 11 → 343 + 11 = 354.

Option 3) 6 : 212

→ 63 + 11 → 216 + 11 = 227 ≠ 212.

Option 4) 5 : 136

→ 53 + 11 → 125 + 11 = 136.

So, '6 : 212' is odd among the given options.

Hence, the correct answer is "Option 3".

Q19. Answer: (c) IA 125

The logic followed here is:

So, 'IA 125' will replace the question mark in the given series.

Hence, the correct answer is "Option 3".

Q20. Answer: (d) Saturday

Given: 6 November 1925 was Friday.

Now,

1925 to 1933 = 8 Years (6 Ordinary Year and 2 Leap Year).

And, In 8 Years = 2 Leap years and 6 Ordinary Year.

So, 2 Leap Year has 4 odd days,

And, 6 Ordinary Year has 6 odd days.

Total odd days = 4 + 6 = 10.

10 odd days → 10/7 = 1 week and 3 odd days.

then, 6 November 1933 will be Friday + 3 = Monday.

Now, the number of days between 6 November 1933 to 16 December 1933

= 24(November) + 16(December) = 40 days.

= 40 days → 40/7 = 5 week and 5 odd day.

So, 16 December 1933 will be Monday + 5 = Saturday.

Hence, the correct answer is "Option 4".

Q21. Answer: (a) BNTX

The logic followed here is:

For, 'UOKG is related to VPLH'

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For, 'KQWY is related to LRXZ'

Similarly, for 'AMSW'

So, 'AMSW' will be related to 'BNTX'

Hence, the correct answer is "Option 1".

Q22. Answer: (d) 4 - 64

The logic followed here is:

Logic: (1st number)2 = 2nd number.

Now, checking the options:

Option 1) 15 - 225 → $(15)^2 = 225$.

Option 2) 19 - 361 → (19)2 = 361.

Option 3) 9 - 81 → (9)2 = 81.

Option 4) 4 - 64 → (4)2 = 16 ≠ 64.

So, '4 - 64' is odd among the given options.

Hence, the correct answer is "Option 4".

Q23. Answer: (d) [figure]

The correct mirror image of the given figure is:

Hence, the correct answer is "Option 4".

Q24. Answer: (a) Both conclusions II and III follow

Given Statements:

Some pencils are cartoons.

All cartoons are rivers.

All rivers are shadows

The least possible Venn diagram for the given statement is:

Conclusions:

I. All pencils are shadows - False (Because, some pencils are definitely shadows, but All pencils are shadows can be possible only).

II. All cartoons are shadows - True (Because, All cartoons are rivers and All rivers are shadows, this gives All cartoons are shadows).

III Some shadows are pencils - True (Because, those part of pencil which is cartoons will shadow also).

So, Both conclusions II and III follow.

Hence, the correct answer is "Option 1".

Q25. Answer: (b) 30

The triangles are:

So, there are '30' triangles in the given figure.

Hence, the correct answer is "Option 2".

Q26. Answer: (d) Vijayalaya

The correct answer is Vijayalaya.

Key Points

• Chola Empire was one of the longest-ruling dynasties in southern India, which existed from the 3^(rd)century BCE to the 13^(th) century CE.

• The Chola dynasty was known for its maritime trade, art, literature, and architecture.

• Vijayalaya Chola was the founder of the Chola Empire in 848 CE.

• Vijayalaya Chola was a Tamil ruler.

• He conquered the regions of Tanjore, Trichy, and parts of Pudukkottai and Tiruchirappalli, which formed the nucleus of the Chola Empire.

• The Chola Empire reached its zenith under the reign of Rajendra Chola I, who conquered territories up to the Ganges in the north and the Malay Peninsula in the south.

Additional Information

• Dantidurga was the founder of the Rashtrakuta Empire in the Deccan region.

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• It existed from the 6th to the 10th century CE.
• Singhavishnu was a ruler of the Pallava dynasty.
• It existed in the southern part of India from the 3^(rd) to the 9^(th) century CE.
• Upendrarai is not a known historical figure or ruler in Indian history.

Q27. Answer: (d) Sitar

The correct answer is Sitar.

Key Points

• Arvind Parikh is a renowned sitar player and has been associated with the instrument for several decades.
• He has performed at various prestigious events and has received several accolades for his contributions to Indian classical music.
• The sitar is a stringed instrument, which is commonly used in North Indian classical music and is known for its unique sound and intricate playing techniques.
• Arvind Parikh is considered one of the leading sitar players in India and has trained many students in the art of playing this instrument.

Additional Information

• Shehnai is a wind instrument.
• It is commonly used in North Indian classical music.
• Mridangam is a percussion instrument.
• It is commonly used in the Carnatic music of South India.
• Tabla is a pair of drums.
• It is commonly used in North Indian classical music.

Q28. Answer: (a) Bengaluru

The correct answer is Bengaluru.

Key Points

• India's first 100% methanol-powered prototype truck was unveiled in Bengaluru.
• Methanol is a clean-burning fuel that emits lower levels of greenhouse gases and pollutants compared to diesel fuel, making it an attractive alternative for transportation.
• The truck was developed by Eicher Motors and IIT Delhi, and is part of the government's push towards using alternative fuels to reduce India's dependence on imported oil and improve air quality.

Additional Information

• The world's first methanol-powered truck was developed by Volvo in 2017 and has been in use in Sweden.
• The first methanol-powered buses were unveiled in Bengaluru by Union Minister of Road and Transport Nitin Gadkari in association with the Indian Oil Company (IOC), Bengaluru Metropolitan Transport Corporation (BMTC), NITI Aayog, and Ashok Leyland.

Q29. Answer: (d) Kerala

The correct answer is Kerala.

Key Points

• Onam is a festival celebrated in the state of Kerala, which is located in the southern part of India.
• It is one of the most important festivals in Kerala and is celebrated with great enthusiasm and joy by people of all religions and communities.
• The festival is celebrated to commemorate the homecoming of King Mahabali, who is believed to have ruled Kerala in ancient times.
• The festival is celebrated over a period of 10 days and is marked by various cultural events, traditional feasts, and colorful decorations.

Additional Information

• Gujarat is known for the Navratri festival, Modhera Dance Festival, Bhavnath Mahadev Fair and Rann Utsav.
• Karnataka is known for the Dasara festival, Ugadi, and Tula Sankramana.
• Goa is known for the Carnival festival and Potekar.

Q30. Answer: (a) To maximise the focus on rehabilitation without really caring for resettlement

The correct answer is To maximise the focus on rehabilitation without really caring for resettlement.

Key Points

• The National Rehabilitation and Resettlement Policy (2007) of the Government of India aims to provide better living standards and sustainable income to affected families.

• Another objective is to integrate rehabilitation concerns into the development planning and implementation process.

• The policy also aims to minimize displacement and promote non-displacing or least-displacing alternatives.

• However, the policy does not prioritize rehabilitation over resettlement.

• Resettlement is an important aspect of the policy, as it aims to provide affected families with a new place to live and sources of income.

Additional Information

• The National Rehabilitation and Resettlement Policy aims to accomplish the following:

• better living conditions for affected families through coordinated efforts to provide sustainable income;

• integration of rehabilitation concerns into the development planning and implementation process; and,

• in cases where displacement is due to land acquisition, facilitation of harmonious relationships between the requiring body and affected families through mutual cooperation.

• The policy also ensures that special care is taken to protect the rights of the weaker sections of society, particularly members of the Scheduled Castes and Scheduled Tribes, and creates obligations on the State for their treatment with concern and sensitivity.

Q31. Answer: (c) To shield the Earth from solar wind and cosmic radiation

The correct answer is To shield the Earth from solar wind and cosmic radiation.

Key Points

• The purpose of the Earth's magnetic field is to shield the planet from solar wind and cosmic radiation.

• This is important because these particles can be harmful to life on Earth and can cause damage to our atmosphere.

• The Earth's magnetic field is generated by the movement of molten iron in the planet's core.

• This creates a magnetic field that extends out into space and protects the planet.

Additional Information

• The Earth's magnetic field does not provide energy for life on Earth.

• While the Earth's magnetic field may have some impact on the climate, its primary purpose is to protect the planet from solar wind and cosmic radiation.

• The tides are primarily caused by the gravitational pull of the moon and the sun.

• The magnetic field that emanates from Earth's interior and interacts with the solar wind,a stream of charged particles that comes from the Sun, is called the geomagnetic field, or Earth's magnetic field.

Q32. Answer: (c) Sodium chloride

The correct answer is Sodium chloride.

Key Points

• Sodium chloride, also known as table salt, is a mineral salt that is dissolved in major amounts in ocean water.

• It is estimated that the ocean contains about 35 grams of salt per liter of water, and about 85% of that salt is sodium chloride.

• Calcium chloride and calcium sulfate are also present in ocean water but in much smaller amounts compared to sodium chloride.

• Calcium carbonate is a mineral that is found in the shells and skeletons of many marine organisms, but it is not dissolved in ocean water as much as sodium chloride.

• The high concentration of sodium chloride in ocean water is one of the reasons why it is not safe to drink without proper treatment.

Additional Information

• Calcium chloride is a salt that is commonly used as a de-icing agent on roads and sidewalks, as well as in food production and medical applications.

• Calcium sulphate, also known as gypsum, is a mineral that is used in construction, agriculture, and as a food additive.

• Calcium carbonate is used in a variety of industries, including construction, paper production, and as a dietary supplement.

• It is important to note that while sodium chloride is the most abundant mineral salt in ocean water, there are also many other dissolved substances that contribute to the overall composition of seawater.

Q33. Answer: (c) Article 39

The correct answer is Article 39.

Key Points

• Article 39 of the Directive Principles of State Policy provides for equal pay for equal work.

• Article 39 states that the State shall direct its policy towards securing, among other things, that there is equal pay for equal work for both men and women.

• This provision is aimed at eliminating discrimination in wages on the basis of gender, and ensuring that workers are paid fairly for the work they do.

• The Constitution of India recognizes the importance of ensuring social and economic justice for all, and the provision for equal pay for equal work is in line with this objective.

Additional Information

• Article 38 deals with the State's duty to promote the welfare of the people by securing a social order in which justice, social, economic and political, shall inform all the institutions of national life.

• Article 41 deals with the right to work, education, and public assistance in certain cases.

• Article 40 deals with the State's duty to organize village panchayats and endow them with such powers and authority as may be necessary to enable them to function as units of self-government.

Q34. Answer: (c) Construction of border roads in high altitude areas

The correct answer is the Construction of border roads in high-altitude areas.

Key Points

• National Highways in India are meant for inter-state transport and connect state capitals and major cities.

• They are maintained by the Central Government and are a crucial part of India's transportation network.

• Border roads in high-altitude areas are constructed by the Border Roads Organisation (BRO), which is a separate entity from the National Highways Authority of India (NHAI).

• The BRO constructs and maintains roads in difficult terrain and border areas to ensure connectivity and strategic mobility for the Indian Armed Forces.

• National Highways are identified by their unique numbers, which range from 1 to 373 and cover a total length of over 135,000 km.

Additional Information

• The Ministry of Road Transport and Highways is the owner of India's network of trunk roads, known as the national highways.

• At 4,112 km (2,555 mi), National Highway 44 is currently the longest National Highway in India.

• Major national highways in India were first four-laned under the National Highway Development Project (NHDP).

• India has about 35,000 km of four-lane national highways as of March 2022.

Q35. Answer: (d) April 1 to March 31

The correct answer is April 1 to March 31.

Key Points

• The financial year for India is the period from April 1 to March 31.

• This means that the government budget estimates for the financial year are prepared based on the expected receipts and expenditure during this period.

• The government receipts include revenue from taxes, non-tax sources, and borrowings, while the government expenditure includes both revenue and capital expenditure on various sectors such as defense, education, healthcare, infrastructure, etc.

• The budget is an important tool for fiscal management and policy-making, as it reflects the government's priorities and goals for the economy and society.

Additional Information

• The financial year for India was earlier from May 1 to April 30, but it was changed to April 1 to March 31 in 1867.

• The government presents the budget in the Parliament in the form of two documents: the Union Budget, which includes the estimates for the central government, and the State Budgets, which include the estimates for the state governments.

• The budget also includes various measures to promote economic growth, reduce fiscal deficits, and address social and welfare issues.

• The government uses various fiscal instruments such as taxes, subsidies, and transfers to achieve its budgetary objectives.

• The budget is subject to approval by the Parliament and may be revised during the year if there are significant changes in the economic and financial situation.

Q36. Answer: (c) Mitochondria

The correct answer is Mitochondria.

Key Points

• Mitochondria is the part of the cell that converts nutrients into energy in the form of ATP (Adenosine Triphosphate).

• It is also known as the powerhouse of the cell.

• Mitochondria have their own DNA and can reproduce themselves within the cell.

• It plays a crucial role in cellular respiration, which is the process of converting glucose and oxygen into ATP.

Additional Information

• Cell membrane: It is the outermost part of the cell that controls the entry and exit of substances in and out of the cell.

A semipermeable lipid bilayer forms the cell membrane.

Lysosomes: These are organelles that contain enzymes to break down waste products and cellular debris.

• Digestive enzymes are found in lysosomes, which are membrane-bound cell organelles.

Chromosomes: They are structures in the nucleus that contain genetic information in the form of DNA.

Deoxyribonucleic acid (DNA) and a protein molecule make up each chromosome.

DNA contains the precise instructions that differentiate each type of living thing from one another and is passed from parents to children.

Q37. Answer: (d) Titas Sadhu

The correct answer is Titas Sadhu.

Key Points

• Titas Sadhu received the Emerging Hero award at the Sportster East sports conclave 2023.

• Titas Sadhu is an Indian women's cricket player who has been making headlines for her impressive performances on the field.

• She played for the Indian squad that won the 2023 U19 Women's T20 World Cup, and she was named Player of the Match in the championship game.

Additional Information

• Richa Ghosa is also an Indian women's cricket player who has represented the country in international matches.

• Harleen Deol is another Indian women's cricket player who has been making waves in the sport.

• She is known for her all-round abilities and has represented India in both ODIs and T20Is.

• Deepti Sharma is a top-order batter and off-spinner who has played for the Indian women's cricket team.

• She has been a consistent performer for the team and has also been a part of the Women's Big Bash League in Australia.

Q38. Answer: (b) SVAMITVA

The correct answer is SVAMITVA.

Key Points

• SVAMITVA scheme aims to provide an integrated property validation solution for rural India.

• The scheme was launched by the Ministry of Panchayati Raj in April 2020.

• The objective of the scheme is to survey rural inhabited lands using drones and provide property cards to the landowners.

• The property cards will help in reducing property-related disputes, enable landowners to use their property as collateral for loans, and improve the overall rural economy.

Additional Information

• WDF (Women Development Fund) is a scheme launched by the Ministry of Women and Child Development.

• Its goal is to provide financial assistance to women entrepreneurs.

• NRLM (National Rural Livelihood Mission) is a poverty alleviation scheme.

• It was launched by the Ministry of Rural Development.

• PCGS (Partial Credit Guarantee Scheme) is a scheme launched by the Ministry of Finance to provide credit guarantee to lenders for loans given to MSMEs.

Q39. Answer: (b) Glucose

The correct answer is Glucose.

Key Points

• The monomer unit of glycogen is glucose.

• Glycogen is a complex carbohydrate that is formed by the polymerization of glucose molecules.

• Glucose is a simple sugar that is the primary source of energy for the body.

• It is the main free sugar present in higher animals' blood and can be found in fruits and honey.

Additional Information

• Fructose is another simple sugar that is found in fruits and honey.

• Other plant foods like honey, sugar beets, sugar cane, and vegetables also naturally contain it.

• The sweetest naturally occurring carbohydrate is fructose.

• Galactose is a simple sugar that is found in milk and dairy products.

• Usually, it is found in nature in mixtures with other sugars, like lactose (milk sugar).

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• Mannose is a simple sugar that is found in some plants.

• It is used in the production of glycoproteins and glycolipids.

Q40. Answer: (c) Birth rate and death rate important components of the HDI

The correct answer is Birth rate and death rate important components of the HDI.

Key Points

• The Human Development Index (HDI) is a measure of human development that takes into account three dimensions: health, education, and income.

• The level of education is one of the components of the HDI, along with the years of schooling and the expected years of schooling.

• The income component of the HDI is represented by the per capita GDP of a country on purchasing power parity terms, which takes into account the differences in the cost of living between countries.

• Life expectancy at birth is another component of the HDI, as it reflects the overall health and well-being of a population.

• Birth rate and death rate are not components of the HDI, as they are considered to be demographic indicators rather than measures of human development.

Additional Information

• The HDI was developed by the United Nations Development Programme (UNDP) in 1990 as a way to measure progress in human development across countries.

• The HDI ranges from 0 to 1, with higher values indicating higher levels of human development.

• The HDI is updated annually and is widely used by policymakers, researchers, and advocates to track progress in human development and identify areas for improvement.

• Other measures of human development include the Multidimensional Poverty Index (MPI), which takes into account a broader range of dimensions of poverty beyond income, and the Gender Development Index (GDI), which measures gender gaps in education, health, and income.

Q41. Answer: (b) Liberty of thought, expression, belief, faith and worship

The correct option is Liberty of thought, expression, belief, faith, and worship.

Key Points

• The preamble mentions "Liberty of thought, expression, belief, faith and worship" as one of the noble ideals mentioned in the Indian Constitution.

• The Indian Constitution's preamble outlines the fundamental principles and values that guide the country and its people.

• It begins with the words "We, the people of India," emphasizing the democratic nature of the nation.

Additional Information

• The Indian Constitution is the ultimate law of the land based on the idea put forth by M.N. Roy.

• It is the document that lays out the framework that defines the fundamental political code, structure, procedures, powers, and duties of government institutions.

• It also lays out fundamental rights, directive principles, and the duties of citizens.

• It's the world's longest written national constitution.

• On November 26, 1949, the Indian Constituent Assembly adopted it, and on January 26, 1950, it came into force.

• The Government of India Act 1935 was superseded by the constitution in 1935, transforming the Dominion of India into the Republic of India.

Q42. Answer: (b) Persian

The correct answer is Persian.

Key Points

• Raja Ram Mohan Roy's work, 'Gift to Monotheists', was originally written in Persian.

• Persian was a widely used language in India during the Mughal era and was the language of the court.

• Raja Ram Mohan Roy was a prominent social reformer and scholar who played a key role in the Indian Renaissance.

• The work, 'Gift to Monotheists', was a critique of polytheism and an argument for the superiority of monotheistic religions.

Additional Information

• Arabic is a language primarily associated with Islam and is widely used in religious texts and rituals.

• The majority of speakers of the Semitic language Arabic are found in the Arab world.

• It is named after the Arab people and first appeared in the first century AD.

• Bengali is the language of the Bengali people of eastern India and Bangladesh and has a rich literary tradition.

• It is the official language of West Bengal, Tripura, and the Assamese Barak Valley.

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• Sanskrit is an ancient language of India and is associated with Hinduism and traditional Indian knowledge systems.
• Following the dispersal of its predecessor languages from the northwest during the late Bronze Age, it originated in South Asia.

Q43. Answer: (d) 17.7%

The correct answer is 17.7%.

Key Points

• Decadal population growth rate refers to the percentage increase in the population over a period of ten years.
• The Census of India is conducted every ten years to gather demographic and socio-economic data about the population of India.
• The 2011 Census of India recorded a decadal population growth rate of 0.177, which is lower than the previous decade's rate of 0.214.

Additional Information

• The decadal population growth rate is an essential indicator of a country's population dynamics.
• It reflects the changes in the population size, age structure, and fertility rates over time.
• 0.162 is the decadal population growth rate of India's neighboring country, Bangladesh, according to the World Bank data.
• 0.172 is the decadal population growth rate of India's other neighboring country, Nepal, according to the World Bank data.

Q44. Answer: (c) Padma Shri

The correct answer is Padma Shri.

Key Points

• Kuchipudi dancer V Satyanarayana Sarma was honored with the Padma Shri award in 1970.
• The Padma Shri is the fourth highest civilian award in India, given for distinguished service in various fields such as art, literature, science, and social service.
• Among the many accolades he received were the Sangeet Natak Akademi Fellowship, the Sangeet Natak Akademi Award, and the Kalidas Samman.

Additional Information

• The Kalidas Samman is a prestigious award given by the Madhya Pradesh government for outstanding contributions in the field of arts and literature.
• The prize bears the name of the well-known Indian Classical Sanskrit author Kalidasa.
• In 1980, the Kalidas Samman was first given out.
• The Kabir Puraskar is awarded for promotion and preservation of communal harmony and national integration.
• In 1990, the Indian government launched the Kabir Puraskar Scheme, which included a National Award known as the "KABIR PURASKAR."
• The Moortidevi Award is given for outstanding contribution to Indian literature.
• Presenting the Moortidevi Award every year is the Bharatiya Jnanpith, an Indian literary accolade.

Q45. Answer: (d) Fiscal Deficit

The correct answer is Fiscal Deficit.

Key Points

• A fiscal deficit represents the difference between the government's total expenditure and its total revenue.
• It is a key indicator of the government's borrowings and reflects the extent to which it is relying on debt to fund its spending.
• Primary deficit is a narrower measure that excludes interest payments on past borrowings.
• It indicates the government's borrowing needs for current spending but does not capture the burden of past debt.
• Revenue receipts represent the government's income from taxes, fees, and other sources.
• Money supply is a measure of the total amount of money in circulation in the economy.

Additional Information

• Revenue receipts can be further classified into tax revenue and non-tax revenue.
• Tax revenue is the income from taxes such as income tax, corporate tax, GST, etc.
• Non-tax revenue is the income from other sources such as dividends from public sector enterprises, interest receipts, etc.
• Money supply can be measured in different ways, such as M1, M2, and M3.
• M1 includes currency in circulation, demand deposits, and other liquid assets.
• M2 includes M1 plus savings deposits, time deposits, and other less liquid assets.
• M3 includes M2 plus large time deposits and institutional money market funds.

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Q46. Answer: (b) 1975

The correct answer is 1975.

Key Points

• The Twenty Point Programme (TPP) was launched in 1975.

• It was launched by the Government of India under the leadership of Prime Minister Indira Gandhi.

• The TPP aimed to address the socio-economic needs of the country and improve the living conditions of the people.

• The program included initiatives in areas such as agriculture, industry, employment, education, and healthcare.

Additional Information

• The TPP was later replaced by the Twenty Point Programme (2006) which was launched by the Government of India.

• It was under the leadership of Prime Minister Manmohan Singh.

• The program addresses a wide range of socioeconomic issues, including consumer protection, the environment, e-Government, employment, poverty, education, housing, health, agriculture, land reforms, irrigation, and drinking water.

Q47. Answer: (d) one

The correct answer is one.

Key Points

• India won only one gold medal at the Tokyo Olympics 2020.

• The gold medal was won by Neeraj Chopra in the men's javelin throw event.

• India's total medal tally at the Tokyo Olympics was seven, including one gold, two silver, and four bronze medals.

• India's performance at the Tokyo Olympics was commendable, with several athletes achieving personal bests and breaking national records.

Additional Information

• Tokyo Olympics 2020 was an international multi-sport competition that took place in Tokyo, Japan, from July 23, 2021, to August 8, 2021.

• On September 7, 2013, in Buenos Aires, Argentina, during the 125th IOC Session, Tokyo was chosen as the host city.

• China ranked second in both categories (38 and 89), trailing the United States in both total golds (39) and total medals (113).

• Japan, the host country, finished third, breaking the previous records for the most gold medals (27), and the total number of medals (58), ever won by a delegation at an Olympic Games.

• Finishing fourth overall with 64 medals and 22 golds was Great Britain.

Q48. Answer: (b) Araku Valley

The correct answer is Araku Valley.

Key Points

• Dhimsa is a traditional folk dance of the tribes in the Araku Valley of Andhra Pradesh.

• The dance is performed by women and men in a group, and is usually accompanied by tribal music and songs.

• The dance is performed during festivals and celebrations, and is a way for the tribes to express their cultural heritage and identity.

• The Araku Valley region is known for its natural beauty and cultural significance.

Additional Information

• Solan Valley:

• It is situated 14 km northwest of the resort town of Manali, on the route to Rohtang Pass, this side valley at the summit of the Kullu Valley in Himachal Pradesh, India.

• It is well-known for its summer and winter sports conditions.

• Ketti Valley:

• It is situated in Tamil Nadu State's Nilgiris District.

• Parvati Valley:

• The state of Himachal Pradesh in northern India is home to Parvati Valley.

• The Parvati Valley extends eastward through a steeply sided valley from the point where the Parvati River meets the River Beas, in the Kullu district of Himachal Pradesh, Northern India, starting in the town of Bhuntar.

Q49. Answer: (b) 88.44 m

The correct answer is 88.44 m.

Key Points

• Neeraj Chopra won the Diamond League Final 2022 title in Zurich.

• He achieved this feat by throwing the javelin at a distance of 88.44 meters.

• This is a remarkable achievement as he became the first Indian to win the Diamond League.

Additional Information

• Neeraj Chopra is a javelin thrower from India and has won several medals in international competitions.

• The Diamond League is an annual series of elite track and field events featuring the best athletes in the world.

• The Diamond League Final is the last event of the season and the winner is crowned the Diamond League champion.

Q50. Answer: (d) Tamil Nadu

The correct answer is Tamil Nadu.

Key Points

• Tamil Nadu receives rainfall during the retreating monsoon, which is also known as the northeast monsoon or the post-monsoon season.

• The retreating monsoon refers to the withdrawal of the southwest monsoon from the Indian subcontinent, which usually occurs from September to December.

• Madhya Pradesh, Gujarat, and Bihar receive rainfall during the southwest monsoon season, which lasts from June to September.

• Tamil Nadu, on the other hand, experiences a dry season during the southwest monsoon and relies on the retreating monsoon for its rainfall.

• Tamil Nadu's agriculture, particularly its rice and millet crops, depends heavily on the retreating monsoon.

Additional Information

• Madhya Pradesh is a central state of India that receives rainfall from the southwest monsoon.

• It is one of the largest producers of soybeans, wheat, and pulses in the country.

• Gujarat is a western state of India that receives rainfall from the southwest monsoon.

• It is known for its cotton, groundnut, and oilseed production.

• Bihar is an eastern state of India that receives rainfall from the southwest monsoon.

• It is one of the largest producers of vegetables, fruits, and flowers in the country.

Q51. Answer: (d) 5336

Shortcut Trick

Remainder = 46

Divisor = 5 × 46 = 230

Quotient = 230 ÷ 10 = 23

Dividend = (Divisor × Quotient) + Remainder

Dividend = (230 × 23) + 46 = 5290 + 46 = 5336

Therefore The correct answer is 5336.

Alternate Method

Given:

Remainder (R) = 46

Divisor (D) = 5 × Remainder

Divisor (D) = 10 × Quotient (Q)

Formula Used:

Dividend = (Divisor × Quotient) + Remainder

Calculations:

=> Divisor = 5 × 46 = 230

=> 10 × Quotient = 230

=> Quotient = 230 ÷ 10 = 23

=> Dividend = (230 × 23) + 46

=> Dividend = 5290 + 46

=> Dividend = 5336

Therefore The correct answer is 5336.

Additional Information

Division Algorithm

For any two integers a and b, there exist unique integers q and r such that a = bq + r, where 0 ≤ r < b.

Constraint on Remainder

The remainder must always be a non-negative integer and must be strictly less than the divisor.

Perfect Divisibility

If the remainder is 0, the dividend is said to be perfectly divisible by the divisor.

Q52. Answer: (b) 4,254.63

Shortcut Trick

Rate of Interest (R) = [(A3 − A2) ÷ A2] × 100

=> R = [(7,340 − 6,120) ÷ 6,120] × 100 = [1,220 ÷ 6,120] × 100 ≈ 19.9346%

Principal (P) = A2 ÷ (1 + R/100)²

=> P = 6,120 ÷ (1.199346)² = 6,120 ÷ 1.43843 ≈ 4,254.63

Therefore The correct answer is Rs. 4,254.63.

Alternate Method

Given:

Amount after 2 years (A2) = Rs. 6,120

Amount after 3 years (A3) = Rs. 7,340

Formula Used:

$A = P(1 + R/100)^n$

Calculations:

=> A3 ÷ A2 = [P(1 + R/100)³] ÷ [P(1 + R/100)²]

=> 7,340 ÷ 6,120 = 1 + R/100

=> 1.1993464 = 1 + R/100

=> R/100 = 0.1993464

=> Now, P = A2 ÷ (1 + R/100)²

=> P = 6,120 ÷ (1.1993464)²

=> P = 6,120 ÷ 1.4384318

=> P ≈ 4,254.634

Therefore The correct answer is Rs. 4,254.63.

Additional Information

Successive Amounts in CI

In Compound Interest, the amount at the end of any year acts as the principal for the next year. Thus, A_(n+1) = A_n × (1 + R/100).

Effective Rate of Interest

For two years, the effective CI rate is R + R + (R × R)/100. The sum can be found by P = A ÷ (1 + Effective Rate/100).

Q53. Answer: (d) 1

Concept used:

cosec 45° = sec45° = √2

As we know Calculation:

By taking b = 45°

The value of

(cosec2 B - 1) (sec2 B - 1)

=> (cosec² 45 - 1) (sec2 45 - 1)

=> (2 - 1)(2-1) = 1

Therefore The correct option is 4

Q54. Answer: (a) 1/41

Concept used:

a sinθ + b cosθ = c

a sinθ - b cosθ = d

Then we can say that, a2 + b2 = c2 + d2.

Calculation:

a sinθ + b cosθ = c

a sinθ - b cosθ = d

Then we can say that, a2 + b2 = c2 + d2.

So 1 + 1 = $(1/29)^2 + d^2$

=> $d^2 = 2 - 1/841$

=> 41 /29

$(\sin\theta+\cos\theta)/(\sin\theta-\cos\theta) = 1/29 \times 29/41$

=> 1/41

Therefore The correct option is 1

Q55. Answer: (c) 21

Formula used:

As per Pythagoras theorem, hypotenuse = $\sqrt{(base^2 + perpendicular^2)}$

Calculation:

The length (in cm) of a tangent drawn from point X to the circle is

=> $\sqrt{(29^2 - 20^2)}$

=> $\sqrt{(841 - 400)} = \sqrt{(441)}$

=> 21 cm

Therefore The correct option is 3

Q56. Answer: (c) Rs. 1,092

Given:

A profit earned by selling an article for Rs. 1,032 = The loss incurred when the same article is sold for Rs. 648.

Concept used:

Selling price = cost price + profit

Calculation:

The cost price of the article is (1032 + 648) / 2 = 840

The selling price will be,

=> 840 + 840 × 30/100

=> 840 + 252 =Rs. 1092

Therefore The correct option is 3

Q57. Answer: (a) 179.67 cm^3

Given:

Edge of the cube = 7 cm

Concept used:

The edge of the cube is the diameter of the sphere

Formula used:

The volume of a sphere = $4/3 \times \pi \times radius^3$

Calculation:

The radius will be 7 / 2 = 3.5 cm

The volume will be,

=> 4/3 × 22/7 × 3.5 × 3.5 × 3.5 = 179.67 cm3

Therefore The correct option is 1

Q58. Answer: (b) 14 cm

Given :

Area of the circle is 154 cm2.

Formula used:

Area of a circle = π × radius2

Concept used:

Diameter = 2 × radius

Two parallel lines touch the circles at P and Q so the length of PQ = Diametrer

Calculation:

As per the question,

$\pi \times r^2 = 154$

$\Rightarrow r = 7$

The diameter will be $7 \times 2 = 14$ cm

The length of PQ = 14 cm

Therefore The correct option is 2

Q59. Answer: (a) 8, 6, 9

Concept used:

To form a triangle, the sum of any two sides should be greater than the third side.

Calculation:

As per the given options,

$8 + 6 > 9$

So we can form a triangle by given sides

Therefore The correct option is 1

Q60. Answer: (b) 8%

Calculation:

Let, total students = 360°

According to the given data,

In 2022,

$\Rightarrow 93.6° = 15600$

So, $360° = 15600/93.6 \times 360 = 60000$

In 2021,

$\Rightarrow 86.4° = 15600$

So, $360° = 15600/86.4 \times 360 = 65000$

Now, percentage change in total number of students = $(65000 - 60000)/65000 \times 100$

$\Rightarrow 7.69\% \approx 8\%$

Therefore The correct option is 2.

Q61. Answer: (a) 3.6 cm

Given:

In a triangle DEF, DP is the bisector of angle D, meeting EF at P. If DE = 14 cm, DF = 21, and EF = 9,

Concept used:

DE / DF = EP / PF

Calculation:

Let the EP = x cm

$\Rightarrow 14 / 21 = x / 9 - x$

$\Rightarrow 2 / 3 = x / 9 - x$

$\Rightarrow 5x = 18$

$\Rightarrow x = 3.6$ cm

Therefore The correct option is 1

Q62. Answer: (a) 100

Shortcut Trick

Let the Total Distance be 100 km.

Time taken for first part = 30 ÷ 90 = 1/3 hour.

Time taken for second part = 45 ÷ 135 = 1/3 hour.

Time taken for remaining part (25%) = 25 ÷ 75 = 1/3 hour.

Total Time = 1/3 + 1/3 + 1/3 = 1 hour.

Average Speed = 100 km ÷ 1 hr = 100 km/h.

Therefore The correct answer is 100 km/h.

Alternate Method

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Given:

Distance1 = 30%, Speed1 = 90 km/h

Distance2 = 45%, Speed2 = 135 km/h

Distance3 = 100% − (30% + 45%) = 25%, Speed3 = 75 km/h

Formula Used:

Average Speed = Total Distance ÷ Total Time

Time = Distance ÷ Speed

Calculations:

Let total distance be D.

=> Total Time (T) = (0.3D ÷ 90) + (0.45D ÷ 135) + (0.25D ÷ 75)

=> T = (D ÷ 300) + (D ÷ 300) + (D ÷ 300)

=> T = 3D ÷ 300

=> T = D ÷ 100

=> Average Speed = D ÷ (D ÷ 100)

=> Average Speed = (D × 100) ÷ D

=> Average Speed = 100 km/h

Therefore The correct answer is 100 km/h.

Additional Information

Average Speed for Equal Distances

If a journey is divided into 'n' equal distances with speeds v1, v2, ..., v_n, then Average Speed is the Harmonic Mean of the speeds.

Average Speed for Two Equal Halves

When two equal distances are covered at speeds 'a' and 'b', Average Speed = (2 × a × b) ÷ (a + b).

Unit Conversion

To convert speed from km/h to m/s, multiply by 5/18. To convert from m/s to km/h, multiply by 18/5.

Q63. Answer: (c) 19%

Given:

The price of a certain mobile set is discounted by 10%

The reduced price is then discounted by 10%.

Formula used:

If one discount is a and another discount is b then final discount i= a%+ b% - (a × b) /100

Calculation:

The total discount will be,

=> 10 + 10 - 10 × 10 /100

=> 20 - 1 = 19%

Therefore The correct option is 3

Q64. Answer: (b) 48 km per hour

Given:

Rajinder's speed = 40 km/h.

He increased his speed to 60 km per hour.

He covers his journey in 7 hours.

Concept used:

If for the same distance one speed V and another speed U then average speed will be,

=> 2 (V × U) / (V + U)

Calculation:

The average speed will be

=> 2 × 40 × 60 /(40 + 60)

=> 4800 /100 = 48 km/h

Therefore The correct option is 2

Q65. Answer: (b) 90

Given:

Babita is 1.25 times as efficient as Deepak.

Working together the due can complete a piece of work in 40 days.

Concept used:

Efficiency = Total work / total time

Calculation:

As we know, 1.25 times = 1 + 1/4

=> 5/4 times

So, Their Efficiency ratio will be,

Babita : Deepak is

=> 5 : 4

Total work will be 40 × 9 = 360 units

The number of days taken by Deepak is

=> 360 / 4 = 90 days

Therefore The correct option is 2

Q66. Answer: (a) 50

Concept used:

If the four numbers a, b, c ,d are in proportion then we can say that

=> a × d = b × c

Calculation:

The fourth proportional will be,

=> 0.6 × 20 / 0.24 = 50

The correct option is 1

Q67. Answer: (a) 24

Calculation:

(4913+343)/(289+49-119)

=> 5256 / 219 = 24

The correct option is 1

Q68. Answer: (b) 46 workers

Shortcut Trick

Using the constant work rule: M1 × D1 = M2 × D2

69 × 20 = M2 × 12

Total workers required (M2) = 1380 ÷ 12 = 115

Additional workers needed = 115 − 69 = 46

Therefore The correct answer is 46 workers.

Alternate Method

Given:

Initial number of workers (M1) = 69

Initial number of days (D1) = 20

Target number of days (D2) = 12

Formula Used:

Since the total work remains constant, we use the formula: M1 × D1 = M2 × D2

Calculation:

=> Total work in man-days = 69 × 20

=> Total work = 1380 units

=> Let M2 be the total number of workers required to complete the work in 12 days.

=> M2 × 12 = 1380

=> M2 = 1380 ÷ 12

=> M2 = 115 workers

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=> The contractor already has 69 workers.

=> Number of more workers needed = Total required workers − Initial workers

=> Number of more workers = 115 − 69

=> Number of more workers = 46

Therefore The correct answer is 46 workers.

Additional Information

MDH Rule (Chain Rule)

The generalized formula for man-days calculations is (M1 × D1 × H1) ÷ W1 = (M2 × D2 × H2) ÷ W2, where M = Men, D = Days, H = Hours, and W = Work.

Time and Efficiency Relationship

Time taken to complete a specific task is inversely proportional to the efficiency or the number of workers. More workers mean fewer days required.

Work and Wages

Wages are always distributed in direct proportion to the amount of total work completed by the individual, or in the ratio of their efficiencies if everyone works for an equal number of days.

Q69. Answer: (b) 2

Calculation:

Let the value of

P = 0 Q = 1 R = -1

By putting the value of P, Q, R in the equation,

$((p^2)/(p^2-qr)+(q^2)/(q^2-pr)+(r^2)/(r^2-pq))$

=> 0 + 1 / 1 + 0 + 1 / 1 - 0 = 1 + 1

=> 2

Therefore The correct option is 2

Q70. Answer: (c) 7

Given:

$(z+1/Z)=4$

Concept used:

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

Calculation:

$z^2 + 1/z^2 = (z + 1/z)^2 - 2$

=> $4^2 - 2 = 14$

$1/2(z^2+1/(z^2)) = 1/2 \times 14$

=> 7

Therefore The correct option is 3

Q71. Answer: (b) 4

Calculation:

Total marks of geography is 100

So to obtain 70% one has to secure 70

So, Rohit, Muskan, Tanvi and Tarun got more than 70

Total number of people will be 4

Q72. Answer: (d) 54°

Calculation:

As we know 100 % = 360°

Then 15% = (360 / 100) × 15

=> 54°

Therefore The correct option is 4

Q73. Answer: (b) 5/3

Given:

Cot B = 15 /8

Calculation:

Let Base is 15 and height is 8

Then hypotaneous will be $\sqrt{15^2 + 8^2} = 17$

So Sec B + Tan B = 17 / 15 + 8 /15

=> 25 /15 = 5/3

Therefore The correct option is 2

Q74. Answer: (c) 162/3 %

Given:

Discount = 40%, loss = 30%.

Concept used:

Market price - Discount = selling price

Calculation:

As per the question,

Market price × 60 = Cost price × 70

Market price / Cost price = 7 / 6

So market price is (7 - 6)/ 6 × 100

= 162/3 % more than cost price

Therefore The correct option is 3

Q75. Answer: (d) Rs. 25,263.16 (nearly)

Calculation:

The average weight will be,

=> (50000 × 6 + 20000 × 5 + 10000 × 8) / 19 = Rs. 25,263.16 (nearly)

Therefore The correct option is 4

Q76. Answer: (d) No sooner did she shout

The correct answer is: No sooner did she shout

Key Points

• The use of "shouted" in the original sentence is grammatically incorrect because the past tense marker "did" already indicates the tense, and we use the base form of the verb after it.

• "No sooner" is a correlative conjunction that is used in conjunction with "than" to express that one action or event happens immediately after another.

• The correct past tense usage after "No sooner" is the simple past tense.

• Example: No sooner did the students finish their exams than they began planning a celebratory trip.

• In this case, "did she shout" is the correct form, where "did" is an auxiliary verb used for emphasis in a past tense sentence, and "shout" is the base form of the verb.

• Therefore, the correct sentence is: No sooner did she shout, than the thieves ran away leaving all the jewellery on the table.

• This construction ensures proper grammar and maintains the intended meaning of the sentence.

Therefore, the correct answer is option 4.

Q77. Answer: (a) He never solves mathematical problems daily

The correct answer is: He never solves mathematical problems daily

Key Points

• In passive voice, the focus is on the action itself, and the person or thing performing the action mentioned after the action.

• The structure for a passive voice sentence is: Object + be verb + V3 + by + doer

• Example: This beautiful mural was painted by someone.

• To convert this into active voice, we need to identify the doer of the action (the subject) and place it at the beginning of the sentence.

• The structure for an active voice sentence is: Subject + Verb + Object.

• Example: Someone painted this beautiful mural.

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• In the active voice, the doer of the action, is "He."

• The main verb in the passive sentence is "are solved," and in the active voice, we use the corresponding active verb, which is "solves."

• In the active voice, the object remains the same, "mathematical problems."

• In the active sentence, adverbial phrase is expressed as "never" and "daily" to maintain the intended meaning.

Therefore, the correct answer is option 1.

Q78. Answer: (b) colleages

The solution is in Hindi. Read it online.

Q79. Answer: (b) When Mayank came

The correct answer is: When Mayank came

Key Points

• The error in the original sentence is in the verb tense agreement.

• The issue is that the past tense "came" in this segment conflicts with the use of the future tense "shall go" in the following segment.

• In this case, "comes" is appropriate.

• This suggests that whenever "Mayank comes" as a regular occurrence or in the future.

• In conditional statements, especially those expressing future conditions, use "comes" in the if-clause to indicate a possible future event.

• So, the correct sentence would be: When Mayank comes, I shall go with him to the circus.

Thus, option 2 is the correct answer.

Q80. Answer: (c) To endure a painful situation

The solution is in Hindi. Read it online.

Q81. Answer: (a) Graceful

The solution is in Hindi. Read it online.

Q82. Answer: (d) Gloomy

The solution is in Hindi. Read it online.

Q83. Answer: (c) rains a lot in

The correct answer is: rains a lot in

Key Points

• The original sentence uses the phrase "is raining a lot in," which is grammatically incorrect.

• The correction "rains a lot in" simplifies the structure while maintaining proper verb agreement.

• "Rains" is in the present tense, which aligns with the ongoing or habitual nature of rainfall in April and May.

• The phrase "rains a lot in" is concise and clear, effectively conveying the idea that there is a significant amount of rainfall during April and May.

• The corrected sentence would be: It rains a lot in April and May, but the summer is very dry.

Therefore, the correct answer is option 3.

Q84. Answer: (b) Conformist

The solution is in Hindi. Read it online.

Q85. Answer: (d) Fertile

The solution is in Hindi. Read it online.

Q86. Answer: (d) phenomenon

The correct answer is "Phenomenon".

Key Points

• "Phenomenon" is a singular noun that refers to an observable event or a fact that can be scientifically described or explained.

• The correct spelling follows the phonetic and etymological rules of English, derived from Greek, where "ph" is used instead of "f," and the proper arrangement of vowels follows the "e-o" pattern after the consonant "n."

• Therefore, the correct answer is "Option 4".

Additional Information

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• Phinomina: This option is incorrectly spelled and does not represent any recognized English word.

• Fenomena: This option attempts to mimic the correct pronunciation but fails to adhere to the standard English spelling conventions.

• Phynamena: This option also does not match the correct spelling, demonstrating a misunderstanding of the word's phonetic structure.

Q87. Answer: (b) Misfortune

The solution is in Hindi. Read it online.

Q88. Answer: (c) Sad

The solution is in Hindi. Read it online.

Q89. Answer: (a) BADC

The correct answer is: BADC

Key Points

• Part B: This sentence introduces the main subject of the paragraph, which is a new policy aimed at addressing environmental issues.

• Part A: This sentence provides specific details about the new policy, outlining the measures it includes, such as a carbon tax and incentives for adopting green practices.

• Part D: This sentence introduces the conflict or opposition to the new policy, highlighting the concerns of certain industries and political groups.

• Part C: This sentence presents the counterargument, explaining why some individuals or groups supported the policy despite the opposition. It provides a perspective on the urgency of addressing climate change for a sustainable future.

• The sequence follows a logical flow, starting with the introduction of the policy, detailing its components, presenting opposition, and then offering a counterargument in support of the policy.

Therefore, the correct answer is option 1.

Q90. Answer: (b) joy

The solution is in Hindi. Read it online.

Q91. Answer: (c) Our group is staging a play this evening.

The correct answer is: Our group is staging a play this evening.

Key Points

• The given sentence is in the passive voice.

• To convert it to active voice, we need to identify the subject performing the action and rearrange the sentence accordingly.

• In passive voice, the focus is often on the action or the result rather than the person or thing performing the action.

• Passive structure: Object + to be + V3 + Subject

• Example: A new bridge is being built by them.

• Active structure: Subject + Verb + Object

• Example: They are building a new bridge.

• Here, In the active voice transformation, the subject "our group" is moved to the beginning of the sentence.

• The tense of the verb becomes "is staging" (present continuous) in the active voice.

• The active voice version is more direct and clearer. It explicitly states that "our group" is the one performing the action of staging a play.

Therefore, the correct answer is option 3.

Q92. Answer: (b) Frivolous

The solution is in Hindi. Read it online.

Q93. Answer: (a) Franchise

The solution is in Hindi. Read it online.

Q94. Answer: (c) Catching a tartar

The solution is in Hindi. Read it online.

Q95. Answer: (c) as well as

The correct answer is: as well as

Key Points

• The word "wellest" is not a correct comparative form.

• "As well as" is a comparative phrase used to compare the abilities, qualities, or characteristics of two or more things.

• Example: The new employee works as well as the experienced ones.

• It is commonly used to indicate that one person or thing possesses a certain quality to the same degree or in a similar manner as another.

• Therefore, the corrected sentence should use "as well as" to compare the dancing abilities.

• Corrected sentence: I don't think he can dance as well as Elena.

• In the context of the sentence the phrase "as well as" is used to compare the dancing abilities of "he" and "Elena."

Therefore, the correct answer is option 3.

Q96. Answer: (c) Commercial success, innovation, adaptability

The correct answer is: Commercial success, innovation, adaptability

Key Points

• The first sentence of the paragraph suggests: "Such examples of commercial success, of innovation, drive, vision, determination, adaptability, and adventure are anchored in the basic Indian openness to, and talent for, acquiring material wealth."

• Therefore, the provided sentence encapsulates the idea that the Indian talent for acquiring material wealth has led to commercial success, innovation, and adaptability in various endeavours.

Therefore, the correct answer is option 3.

Q97. Answer: (d) A lack of team work and a weakness for quick profit

The correct answer is: A lack of team work and a weakness for quick profit

Key Points

• The weaknesses of traditional Indian firms are highlighted in the paragraph.

• The third sentence of the paragraph states, "Traditional Indian firms have their strengths, but also their weaknesses, and of these perhaps the most debilitating are a lack of team work and a weakness for quick profit."

• This sentence explicitly mentions two weaknesses of traditional Indian firms: a lack of teamwork and a weakness for quick profit.

Therefore, the correct answer is option 4.

Q98. Answer: (d) Due to fear of poverty, cut-throat competition, and the hold of hierarchy

The correct answer is: Due to fear of poverty, cut-throat competition, and the hold of hierarchy

Key Points

• The paragraph indicates that the desire to succeed is particularly intense in India.

• The correct answer, "Due to fear of poverty, cut-throat competition, and the hold of hierarchy," can be inferred from the following sentence: "But such weaknesses are more than compensated for by the desire to succeed, which is probably more intense in India, given the omnipresent fear of poverty, the cut-throat competition for each opportunity, and the asphyxiating hold of hierarchy."

• This sentence explicitly mentions the factors that contribute to the intense desire to succeed in India.

Therefore, the correct answer is option 4.

Q99. Answer: (c) Invigorating

The solution is in Hindi. Read it online.

Q100. Answer: (c) Smothering

The solution is in Hindi. Read it online.

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