SSC CHSL Tier-1 2022: Official Paper (Held On: 21 March, 2023 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2022 • 100 questions • 60 minutes • Answer key and solutions

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Practise under exam conditions, then review your answers after you submit.

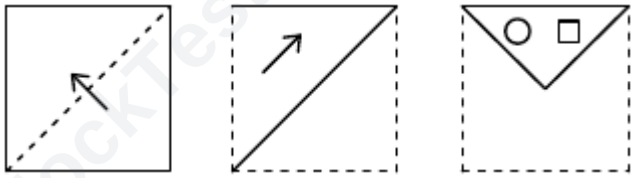
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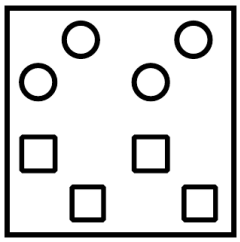
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ENGLISH LANGUAGE

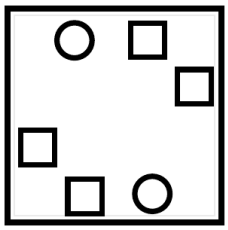
Q1. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



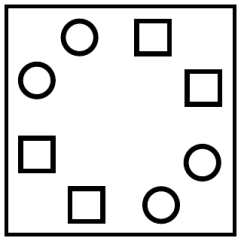
(a)



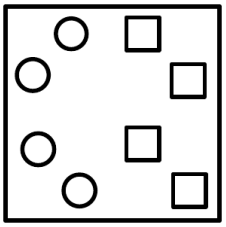
(b)



(c)



(d)



Q2. Words given on the left side of (::) are related with each other by some Logic/Rule/Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.

Fan : Blade :: Car : ?

(a) Road
(b) Steering
(c) Vehicle
(d) Four

Q3. Select the option in which the numbers shares the same relationship in set as that shared by the numbers in the given set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 -Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed, Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(7, 41, 211)

(12, 66, 336)

(a) (10, 45, 205)
(b) (9, 51, 255)
(c) (14, 76, 385)
(d) (11, 61, 311)

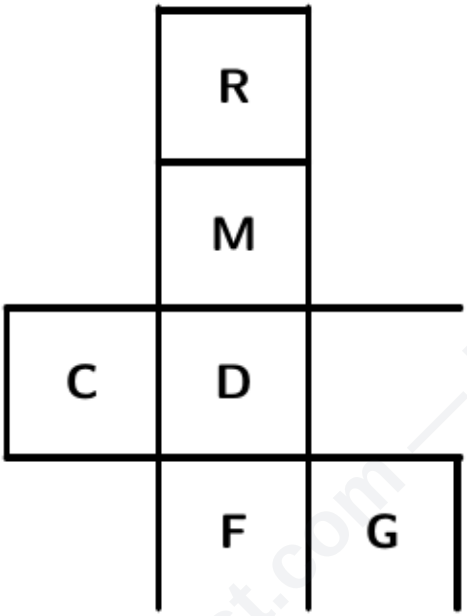
Q4. If 'P' means '÷', 'Q' means '+', 'R' means '-' and 'S' means '×', then what will come in place of '?' in the given expression?

34 P 17 S 9 ? 13 R 11 S 3 R 4 = -6

(a) P
(b) Q
(c) R
(d) S

Q5. A cube in made by folding the given sheet. In the cube so found, which letter will be on the face opposite to the face showing 'F'?

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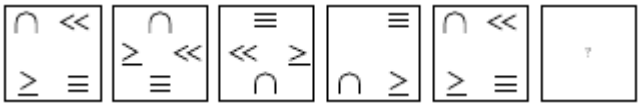


(a) G
(b) C
(c) M
(d) R

Q6. In the following question, select the odd word pair from the given alternatives.

(a) 6 - Hexagon
(b) 5 - Rectangle
(c) 3 - Triangle
(d) 4 - Square

Q7. Select the figure that will come next in the following figure series.



(a)

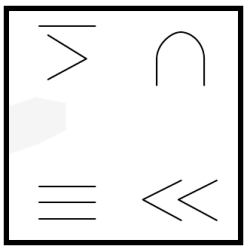


(b)

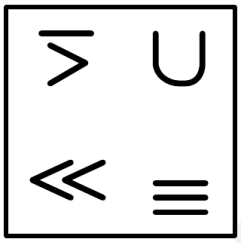


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(c)



(d)



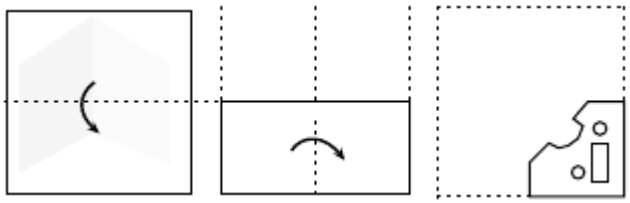
Q8. In a certain code language, 'DEER' is written as 'EGHV' and 'ROOM' is written as 'SQRQ'. How will 'SOAP' be written in that language?

(a) TQCT
(b) TQET
(c) TQDT
(d) TQDS

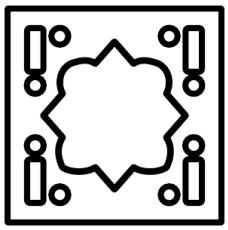
Q9. Anjali is the sister of Mukesh. Nikhil has two children and is the son-in-law of Archana. Anjali is the maternal granddaughter of Archana. Archana has only one child. How is Nikhil's wife related to Archana?

(a) Daughter
(b) Sister
(c) Mother
(d) Granddaughter

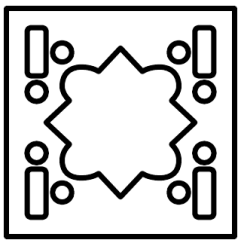
Q10. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?



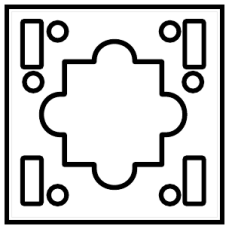
(a)



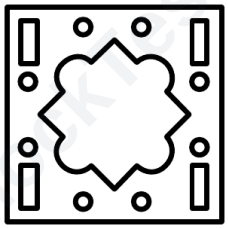
(b)



(c)



(d)

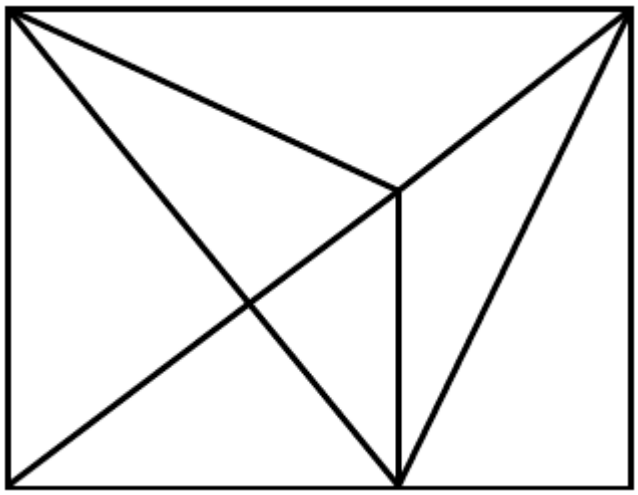


Q11. In the following question, select the missing number from the given series.

532, 667, 802, 937, ?

(a) 1092
(b) 1094
(c) 1072
(d) 1172

Q12. How many triangles are there in the given figure?



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

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Q13. Which one set of letters when sequentially placed in the gaps in the given letter series shall complete it?

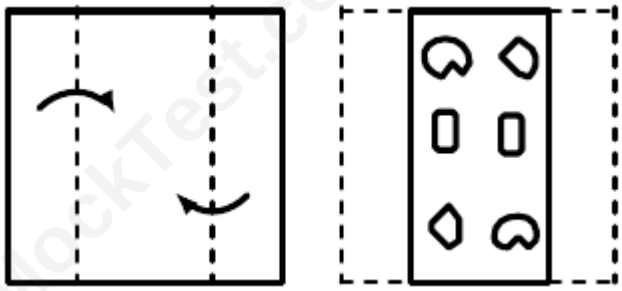
t _ n s _ r t h _ s o _ t h _ s _ r

(a) nonrho
(b) honrno
(c) hornnr
(d) hoonor

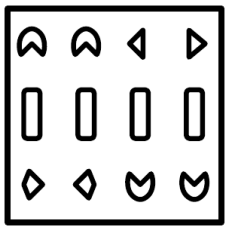
Q14. 'Bangladesh' is related to 'Taka' in the same way as 'Kuwait' is related to '_____'.

(a) Euro
(b) Sol
(c) Dollar
(d) Dinar

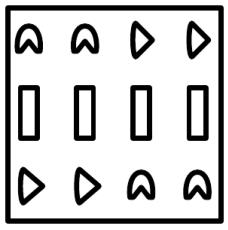
Q15. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?



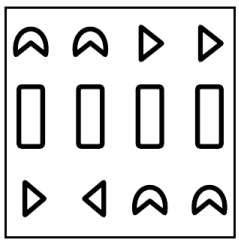
(a)



(b)

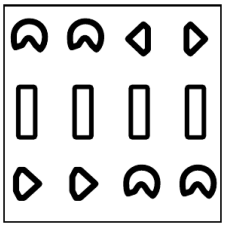


(c)



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(d)



Q16. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statements:

I. All blankets are bedsheet.

II. No bedsheet is a curtain.

Conclusions:

I. Some bedsheet are blanket.

II. No curtain is a blanket.

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

Q17. By interchanging which two signs the given equation will be correct?

46 + 28 × 2 - 7 ÷ 13 = 41

(a) × and +
(b) ÷ and -
(c) • and ÷
(d) ÷ and ×

Q18. Select the option that is related to the fourth number in the same way as the first number is related to the second number and fifth number is related to sixth number.

54 : 162 :: ? : 216 :: 38 : 114

(a) 68
(b) 94
(c) 72
(d) 74

Q19. In a certain code language, 'PAIN' is written as '20' and 'HER' is written as '11'. How will 'TIER' be written in that code language?

(a) 34
(b) 42
(c) 32
(d) 52

Q20. Three of the following four letter clusters are alike in a certain way and one is different. Pick the cluster that is different from the rest.

(a) NOS
(b) GHM
(c) BCG
(d) JKO

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Q21. Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Eyes
2. Lips
3. Stomach
4. Neck
5. Legs

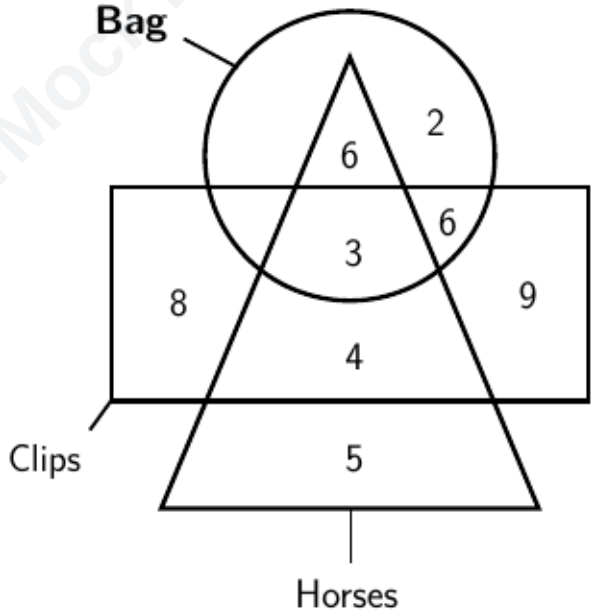
(a) 3, 2, 4, 1, 5
(b) 1, 2, 4, 3, 5
(c) 3, 2, 1, 4, 5
(d) 1, 2, 3, 4, 5

Q22. In the following question, select the related letters from the given alternatives.

SH : IT :: LM : ?

(a) XU
(b) PV
(c) NM
(d) XB

Q23. How many horses are neither clips nor bags?



(a) 9
(b) 7
(c) 5
(d) 4

Q24. Select the option in which the numbers shares the same relationship in set as that shared by the numbers in the given set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(141, 13, 128)

(238, 164, 402)

(a) (64, 42, 32)
(b) (51, 32, 85)
(c) (48, 31, 79)
(d) (39, 33, 62)

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Q25. Select the option in which the numbers shares the same relationship in set as that shared by the numbers in the given set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(80, 72, 64)

(64, 56, 48)

(a) (100, 90, 75)
(b) (42, 35, 24)
(c) (81, 72, 64)
(d) (63, 56, 49)

GENERAL INTELLIGENCE

Q26. Who among the following became India's 76th Chess Grandmaster in the year 2022?

(a) Viswanathan Anand
(b) Pranav Anand
(c) Pentala Harikrishna
(d) Rameshbabu Praggnanandhaa

Q27. Who among the following was the first-ever badminton player from India to clinch an Olympic medal?

(a) Srikanth Kidambi
(b) Saina Nehwal
(c) Chirag Shetty
(d) PV Sindhu

Q28. Which of the following disease is caused by fungi?

(a) Covid-19
(b) Ring Worm
(c) Tuberculosis
(d) Cholera

Q29. The city of Fatehpur Sikri was built by _____.

(a) Akbar
(b) Aurangzeb
(c) Shah Jahan
(d) Jahangir

Q30. How many silver medals did Indian athletes win in the 2022 Commonwealth Games?

(a) 14
(b) 18
(c) 20
(d) 16

Q31. What is the approximate literacy rate of India as per the 2011 census?

(a) 70.01 percent
(b) 78.2 percent
(c) 74.04 percent
(d) 83.35 percent

Q32. At which Indian Institution did President of India, Smt Droupadi Murmu, inaugurate 'PARAM KAMRUPA' Supercomputer facility in October 2022?

(a) IIT Guwahati
(b) University of Mumbai
(c) IIT Kharagpur

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(d) NIT Warangal

Q33. The S-400 Triumf (Russian for Triumph) Missile System is _____ missile defense system designed in Russia.

(a) air-to-underwater
(b) surface-to-air
(c) surface-to-surface
(d) air-to-air

Q34. A type of loan that allows borrowers to make low payments in the initial phases but repayment of the balance amount in lump sum at maturity is known as _____.

(a) Balloon Mortgage
(b) English Mortgage
(c) Income-Sensitive Payment
(d) Payday Loans

Q35. Which among the following is a unit of measurement that describes the rate at which the universe is expanding?

(a) Faraday constant
(b) Planck's constant
(c) Electric constant
(d) Hubble constant

Q36. Which political organization was banned in September 2022 by Government of India under the Unlawful Activities (Prevention) Act?

(a) Khalistan Zindabad Force
(b) Popular Front of India (PFI)
(c) All Tripura Tiger Force
(d) Jammu and Kashmir Islamic Front

Q37. Which country's space agency has launched project "DART Mission"?

(a) USA
(b) Russia
(c) India
(d) China

Q38. In _____, Ambedkar started a temple entry movement, in which his Mahar caste followers participated.

(a) 1923
(b) 1927
(c) 1925
(d) 1921

Q39. What is the public healthcare spending percentage as GDP of India, as per Economic Survey 2020-21?

(a) 2.5%
(b) 1%
(c) 4.5%
(d) 5.5%

Q40. Which Indian was awarded the Nobel Prize in Physics in the year 1930?

(a) Vikram Sarabhai
(b) C. V. Raman
(c) Rabindranath Tagore
(d) Amartya Sen

Q41. Which of the following statement regarding ocean currents is correct?

(a) The Labrador Ocean current is warm current.
(b) The areas where the warm and cold currents meet provide the best fishing grounds.
(c) The cold ocean currents move towards the poles.

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(d) The warm ocean currents move towards the equator.

Q42. Which among the following is a database software?

(a) MS-PowerPoint
(b) MS-Word
(c) dBase
(d) Word Pad

Q43. Which among the following Indian cities received World Green City Award 2022?

(a) New Delhi
(b) Hyderabad
(c) Mumbai
(d) Pune

Q44. Article 143 of the Indian constitution is related with which of the following?

(a) Power of the President to enlarge jurisdiction of the Supreme Court
(b) Power of the President to consult the Supreme Court
(c) Power of the President to appoint National Judicial Appointments Commission
(d) Power of the President to transfer certain cases from High Courts to Supreme Court

Q45. Article 72 of the Indian constitution is related with the power of the _____ to grant pardons, etc. and to suspend, remit or commute sentences in certain cases.

(a) Chief Minister
(b) Governor
(c) President
(d) Prime Minister

Q46. When did Indigo revolt, a peasant movement, start in India?

(a) 1857
(b) 1861
(c) 1859
(d) 1889

Q47. What is the official language of Bhutan, a neighbouring country of India?

(a) Kyat
(b) Dzongkha
(c) Yuan
(d) Ngultrum

Q48. What is the zone between the arctic circle and north pole called?

(a) Torrid zone
(b) Frigid zone
(c) North temperate zone
(d) South temperate zone

Q49. Sir Tim Berners-Lee - a British computer scientist invented the revolutionary World Wide Web in _____.

(a) 1982
(b) 1995
(c) 1990
(d) 1985

Q50. How many Vedas are there in Indian literature of classical Hinduism?

(a) Three
(b) Four
(c) One

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(d) Two

QUANTITATIVE APTITUDE

Q51. If sin θ + cos θ = √2, then find the value of cosec θ + cot θ.

(a) √2 - 1
(b) √2 + 5
(c) √3 - 1
(d) √2 + 1

Q52. In triangle ABC, AB = 20 cm, BC = 16 cm and AC = 12 cm and the radius of circle inscribed in it is 4 cm. Find the area of triangle ABC.

(a) 48 cm^2
(b) 72 cm2
(c) 96 cm2
(d) 120 cm2

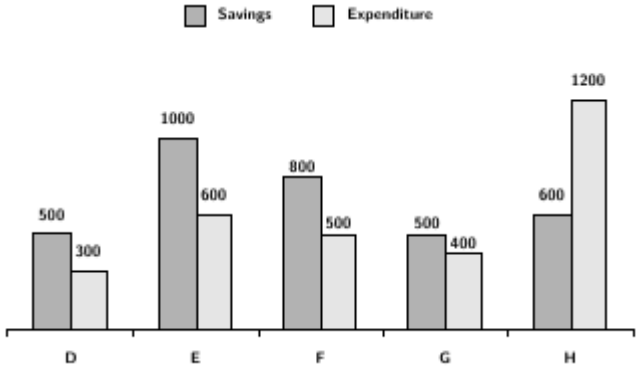
Q53. What is the value of $(9x^2 + 12xy + 4y^2)/36$?

(a) $(x/3+ y/2)^2$
(b) $(x/2- y/3)^2$
(c) $(x/2+ y/3)^2$
(d) $(x/4+ y/3)^2$

Q54. The marked price of a chair is 30 percent more than its cost price. If the chair is sold for Rs. 200 after a discount of Rs. 40, then what will be the profit percentage?

(a) 8.34 percent
(b) 7.28 percent
(c) 9.66 percent
(d) 8.13 percent

Q55. The bar graph given below shows the saving and expenditure of 5 companies D, E, F, G and H.



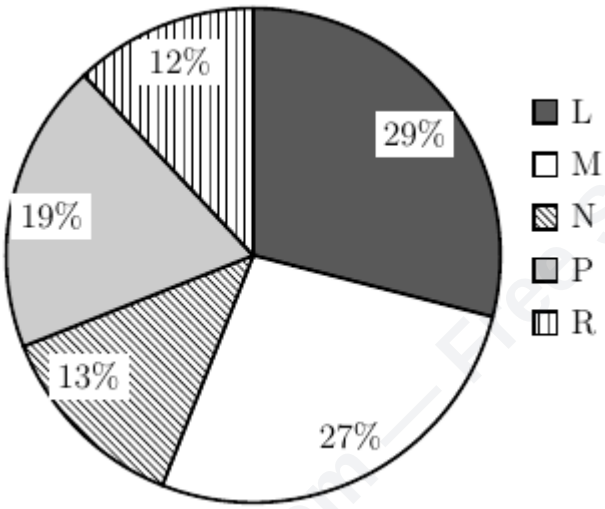
Income = Expenditure + Savings

The total income of all the companies is what percent of the total expenditures?

(a) 213.33 percent
(b) 166.73 percent
(c) 233.33 percent
(d) 199.66 percent

Q56. The pie chart given below show the runs scored by 5 batsmen in a cricket match. Total runs scored by these five batsmen are 700. Runs scored by a batsman is shown as a percentage of mas scored by all these five batsmen.

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What are total runs scored by L, N and R?

(a) 328
(b) 297
(c) 284
(d) 378

Q57. The value of 25 ÷ 10 - (7/4 × 1/3) of 6/5 + 14/3 × 9/10 + (1/5 ÷ 1/25) is:

(a) 9
(b) 15
(c) 11
(d) 7

Q58. In triangle XYZ. angle Y is the smallest angle and angle Y = 25 degree. If the ratio of the angle is 20 : 11 : 5, then what is the largest angle of triangle XYZ?

(a) 80 degree
(b) 85 degree
(c) 95 degree
(d) 100 degree

Q59. Two medians QT and RS of the triangle PQR intersect at G at right angles. If QT = 18 cm and RS = 27 cm. then the length of QS is:

(a) 20 cm
(b) 15 cm
(c) 13 cm
(d) 10 cm

Q60. If cot (P + Q) = 0 and tan (P - Q) = 1/ √3, then what is the value of angle P and angle Q? (0 degree < P, Q ≤ 90 degree)

(a) 25 degree, 65 degree
(b) 45 degree, 45 degree
(c) 60 degree, 30 degree
(d) 15 degree, 75 degree

Q61. Tilak's salary increases by 15% in the first year, decreases by 20% in the second year and increases by 25% in the third year. If Tilak's salary after these three years is Rs. 23,000, then find the salary of Tilak in the beginning of these 3 years.

(a) Rs. 20,000
(b) Rs. 18,000
(c) Rs. 15,000
(d) Rs. 25,000

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Q62. What is the value of $(1-\tan^2 45°)/(1 + \cos^2 90°)$?

(a) 0
(b) 2
(c) 1
(d) 0.5

Q63. Nikhil and Neha invested capital in the ratio 5 : 4. The time Neha invested her money for was one year more than that invested by Nikhil. The ratio of their profits is in the ratio 6 : 5. Find the time Neha invested the money for.

(a) 26 years
(b) 23 years
(c) 21 years
(d) 25 years

Q64. Find the value of $(p + 2q)^2 - (p - 2q)^2$.

(a) 10pq
(b) 8pq
(c) 4pq
(d) 6pq

Q65. If 60 percent of total articles are sold at a loss of 20 percent and remaining articles are sold at a profit of 5 percent, then what will be the overall loss percentage?

(a) 10 percent
(b) 8 percent
(c) 14 percent
(d) 5 percent

Q66. What is the value of 224 of 4 ÷ 7 - 250 × 3?

(a) -524
(b) -486
(c) -588
(d) -622

Q67. A trapezium plate has two parallel sides of length 15 cm and 9 cm, and the distance between them is 6 cm. Copper plating is to be done on the plate at a rate of Rs. 3 per square cm. What will be the total cost of copper plating on the upper side of the plate?

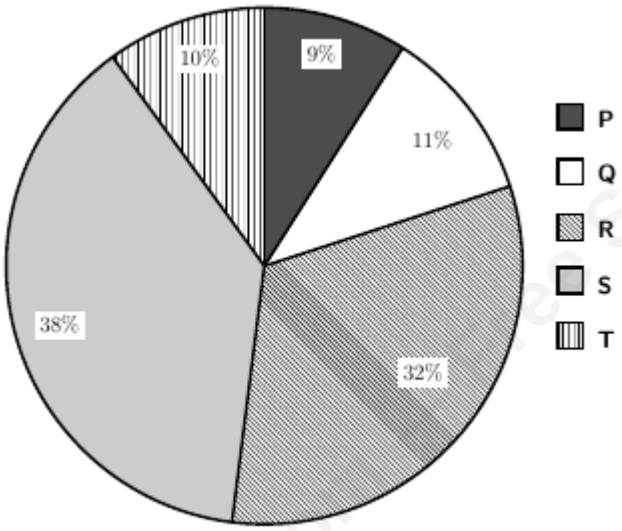
(a) Rs. 432
(b) Rs. 216
(c) Rs. 72
(d) Rs. 108

Q68. Farhan and Aman are going from Delhi to Haryana. The difference and sum of their speeds are 40 km/hour and 60 km/hour respectively. If in a race Farhan can finish 8 minutes earlier than Aman, then find the distance they both should cover.

(a) 5/3 km
(b) 8/3 km
(c) 3/5 km
(d) 3/8 km

Q69. The pie chart given below show the runs scored by 5 batsmen in a cricket match. Total runs scored by these batsmen are 500. Runs scored by a batsman is shown as a percentage of runs scored by all these five batsmen.

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How many runs are scored by the batsman R?

(a) 120
(b) 160
(c) 200
(d) 90

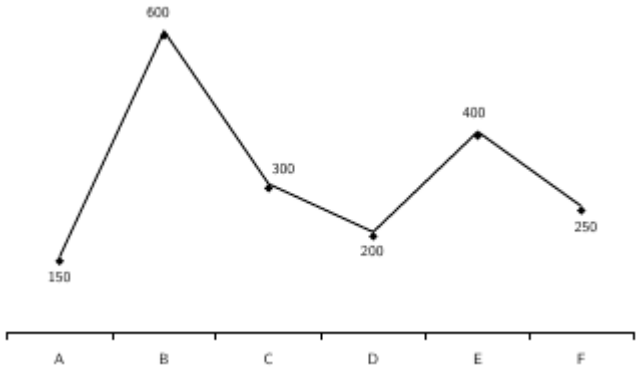
Q70. A can complete 3/8 part of a work in 36 days. B can complete 1/2 part of the same work in 27 days. Which of the following statement(s) is are correct?

I. A is less efficient than B.

II. A and B working together can complete 11/15 part of the same work in 36 days.

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

Q71. The line chart given below shows the salary of 6 employees of a company.



What is the average of salary of employees C, D and E?

(a) 150
(b) 300
(c) 100
(d) 200

Q72. If x + y + z = 0, then what is the value of $x/((yz)^2)+ y/((xz)^2) + z/((xy)^2)$?

(a) xyz/3
(b) 3/xyz
(c) xyz
(d) 1/xyz

Q73. A sum of money becomes three times of itself at the rate of 10 percent per annum on simple interest. Which of the following statement(s) is/are correct?

I. It will become 5 times of itself at the rate of 20 percent per annum on simple interest in the same time period.

II. It will become 7 times of itself at the rate of 30 percent per annum on simple interest in the same time period.

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

Q74. If in triangle ABC, D is a point on the side BC such that the line joining AD bisects the angle A. If the length of BD and BC are 4 cm and 10 cm respectively, then find the ratio of the lengths of AB and AC.

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

Q75. There are 5 numbers, where first number is double of second number and two-third of third number. The average of 5 numbers is 60. If the sum of remaining two numbers is 120, then find the value of the 3^(rd) number.

(a) 120
(b) 90
(c) 80
(d) 60

GENERAL AWARENESS

Q76. Select the most appropriate meaning of the given idiom.

Be my guest

(a) Please do it
(b) Stop, don't go ahead
(c) Be with me
(d) Come with me

Q77. Identify the segment in the sentence which contains a grammatical error. If there is no error, then select the option "No error".

And, indeed, there was hardly picture in Rome I was unable to reattribute to its rightful owner.

(a) to reattribute to its rightful owner.
(b) No error
(c) And, indeed, there was
(d) hardly picture in Rome I was unable

Q78. Choose the option that is the correct indirect form of the sentence.

She said, "I will be available tomorrow."

(a) She said that she would be available tomorrow.
(b) She said that she would be available the next day.
(c) She said that she must be available the next day.
(d) She said that she will be available the next day.

Q79. Choose the word that can substitute the given group of words.

Belonging to the same kind

(a) Sebaceous
(b) Heterogeneous
(c) Homogeneous
(d) Casserole

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Q80. Select the word that is closest in meaning to the word given below.

Bogus

(a) Humane
(b) Strong
(c) False
(d) Criticize

Q81. Choose the correctly spelt word.

(a) HEIRARCHY
(b) APPAULLING
(c) PESTILLENTIAL
(d) MALODOROUS

Q82. Select the most appropriate one-word substitution for the given group of words.

A person who is experiencing dementia brought about by old age

(a) Senile
(b) Sentinel
(c) Primal
(d) Primitive

Q83. Select the word that is opposite in meaning (ANTONYM) to the word given below

Polarize

(a) Combine
(b) Orchestrate
(c) Conjoin
(d) Segregate

Q84. Choose the incorrectly spelt word.

(a) SUPPORT
(b) TUNNEL
(c) RAPPORT
(d) TREBBLE

Q85. Select the most appropriate one-word substitution for the given group of words.

Dependent on chance or uncertainty

(a) Precarious
(b) Paradox
(c) Presume
(d) Presumptuous

Q86. Rearrange the parts of the sentence in correct order.

Our study goes

P. beyond LDL cholesterol levels to get

Q. and the impact of eating walnuts daily

R. a complete picture of all of the lipoproteins

S. on their potential to improve cardiovascular risk

(a) SRPQ
(b) PQSR
(c) PRQS
(d) SPQR

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Q87. Select the most appropriate meaning of the given idiom.

Buy a lemon

(a) To buy something that is of much less value.
(b) To lose foundation
(c) To work through the day and shop in the evening
(d) To give importance to little things

Q88. Select the option that will improve the bracketed part of the sentence. In case no improvement is needed, select 'No improvement'.

He spent many an hours playing the chess across the city.

(a) No improvement
(b) He have spent many an hours playing the chess across the
(c) He had spent many an hours playing the chess across the
(d) He spent many an hour playing the chess across the

Q89. Choose the word that is opposite in meaning to the given word.

Desiccate

(a) Honour
(b) Ascend
(c) Hydrate
(d) Venerate

Q90. Parts of the following sentence are given as options. Identify the part that contains a grammatical error. If there is no error, select 'No error'.

Such was the education / of the Spartans with regard to / one of the greatest of there kings.

(a) No error
(b) one of the greatest of there kings.
(c) Such was the education
(d) of the Spartans with regard to

Q91. Choose the word that is opposite in meaning to the given word.

Sane

(a) Paranoid
(b) Reposeful
(c) Stoical
(d) Halcyon

Q92. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

His shoes were soaked from walk through the dew.

(a) soaked from walking
(b) soak from walking
(c) No improvement
(d) soaks from walk

Q93. Choose the option that is the correct passive form of the sentence.

We had eaten the cake.

(a) The cake had been eaten by us.
(b) The cake will be eaten by us.
(c) The cake is eaten by us.
(d) The cake was eaten by us.

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Q94. Some parts of a few sentences have been jumbled up, and labelled A, B, C and D. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.

I didn't speak to the sage again for many years,

A. seer, born on a dark island of a union between an ascetic and a fisher princess

B. because of the many hefty books, he'd written. Vyasa the

C. though I heard of him from time to time. I learned

D. his name: Vyasa the Compendious,

(a) ABCD
(b) DCAB
(c) CDBA
(d) BADC

Q95. Choose the word that can substitute the given group of words.

A leader who sways his followers by his oratory

(a) Fugitive
(b) Narcissist
(c) Impostor
(d) Demagogue

Directions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

I would uncover the story that lay (1) ____ between the lines of the men's exploits. Better still, I (2) __ one of them tell it herself, with all her joys and doubts, her struggles and her triumphs, her heartbreaks, her achievements, the unique female way (3) __ which she sees her world and her place in it. And who could be (4) __ for this than Panchaali? It is her life, her voice, her questions, and her vision that I invite you (5) ____ 'The Palace of Illusions'.

Q96. Select the most appropriate option to fill in the blank No. 1.

(a) visible
(b) detectable
(c) obvious
(d) invisible

Q97. Select the most appropriate option to fill in the blank No. 2.

(a) would have
(b) could
(c) will
(d) will have

Q98. Select the most appropriate option to fill in the blank No. 3.

(a) though
(b) through
(c) by
(d) in

Q99. Select the most appropriate option to fill in the blank No. 4.

(a) better suited
(b) better performed
(c) better meant
(d) best matched

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Q100. Select the most appropriate option to fill in the blank No. 5.

(a) into
(b) of
(c) upon
(d) on to

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) [figure]

The paper when unfolded will appear as shown below:

Hence, the correct answer is "Option 3".

Q2. Answer: (b) Steering

The logic followed here is:

Logic: The second word is a component or part of the first word.

Here,

Fan : Blade → A blade is a component of a fan.

Similarly,

Car : ? → Steering is a component of a car.

Hence, the correct answer is "Steering".

Q3. Answer: (d) (11, 61, 311)

The logic followed here is:

Logic: (2nd number - 1st number) × 6 + 1st number = 3rd number.

Now,

For (7, 41, 211)

→ (41 - 7) × 6 + 7

→ 34 × 6 + 7

→ 204 + 7 = 211.

For (12, 66, 336)

→ (66 - 12) × 6 + 12

→ 54 × 6 + 12

→ 324 + 12 = 336.

Similarly, for (11, 61, 311)

→ (61 - 11) × 6 + 11

→ 50 × 6 + 11

→ 300 + 11 = 311.

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Hence, the correct answer is "Option 4".

Q4. Answer: (b) Q

BODMAS Rule:

According to the question:

Alphabet	P	Q	R	S
Meaning	÷	•	•	×

Now,

Given equation: 34 P 17 S 9 ? 13 R 11 S 3 R 4 = -6

After replacing the symbols:

=> 34 ÷ 17 × 9 ? 13 - 11 × 3 - 4 = -6

=> 2 × 9 ? 13 - 11 × 3 - 4 = -6

=> 18 ? 13 - 33 - 4 = -6

=> 18 ? 13 - 37 = -6

We need to replace '? with +' to make the equation correct,

=> 18 + 13 - 37 = -6

=> 31 - 37 = -6.

Here, '+' makes the equation correct, and 'Q means +'.

So, 'Q' will be replace the '?' symbol in the given equation.

Hence, the correct answer is "Q".

Q5. Answer: (c) M

From the given open Dice:

R and D is the opposite sides.

C and G is the opposite sides.

F and M is the opposite sides.

So, the face of 'F' is opposite to the face showing 'M'.

Hence, the correct answer is "Option 3".

Q6. Answer: (b) 5 - Rectangle

The odd word pair from the given alternatives is:

Option 1) 6 - Hexagon → A hexagon has six sides.

Option 2) 5 - Rectangle → A Rectangle has four sides only.

Option 3) 3 - Triangle → A triangle has three sides.

Option 4) 4 - Square → A square has four sides.

Here, '5 - Rectangle' does not follow this pattern.

Hence, the correct answer is "Option 2".

Q7. Answer: (a) [figure]

The logic followed here is:

Step I: Symbol

is getting rotated in 'one place and then opposite' alternatively in clockwise direction.

Step II: Symbol is getting rotated in 'one place and then opposite' alternatively in clockwise direction.

Step III: Symbol

is getting rotated in 'one place and then opposite' alternatively in clockwise direction.

Step IV: Symbol

is getting rotated in 'one place and then opposite' alternatively in clockwise direction.

So, the complete series is:

Hence, the correct answer is "Option 1".

Q8. Answer: (c) TQDT

The logic followed here is:

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For, 'DEER' is written as 'EGHV',
For, 'ROOM' is written as 'SQRQ',
Similarly, for 'SOAP'
So, 'SOAP' is coded as 'TQDT'.
Hence, the correct answer is "Option 3".

Q9. Answer: (a) Daughter

Family Chart:
Given:
Anjali is the sister of Mukesh.
Nikhil has two children and is the son-in-law of Archana.
Anjali is the maternal granddaughter of Archana.
Archana has only one child.
So, Nikhil's wife is Daughter of Archana.
Hence, the correct answer is "Option 1".

Q10. Answer: (a) [figure]

When the paper is unfolded, the image appears as follows:
Hence, the correct answer is "Option 1".

Q11. Answer: (c) 1072

The logic followed here is:
So, '1072' will complete the series.
Hence, the correct answer is "Option 3".

Q12. Answer: (d) 17

The triangles are:
So, there are '17' triangles in the given figure.
Hence, the correct answer is "17".

Q13. Answer: (b) honrno

The logic followed here is:
Given Sequence: t _ n s _ r t h _ s o _ t h _ s _ r
Now, putting the letters in the blank spaces given in the option one by one:
Option 1) nonrho → t n n s o r / t h n s o r / t h h s o r
Option 2) honrno → t h n s o r / t h n s o r / t h n s o r
Here, 'Option 2' followed a pattern.
Option 3) hornnr → t h n s o r / t h r s o n / t h n s r r
Option 4) hoonor → t h n s o r / t h o s o n / t h o s r r
Hence, the correct answer is "Option 2".

Q14. Answer: (d) Dinar

The logic followed here is:
Logic: The second word represents the currency of the respective country.
Bangladesh : Taka → Taka is the currency of Bangladesh.
Similarly:
Kuwait : Dinar → Dinar is the currency of Kuwait.
Hence, the correct answer is "Dinar".

Q15. Answer: (a) [figure]

When the paper is unfolded, the image appears as:
Hence, the correct answer is "Option 1".

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Q16. Answer: (a) Both conclusion I and II follow.

Given Statements:

I. All blankets are bedsheet.

II. No bedsheet is a curtain.

The least possible Venn diagram for the given statement is:

Conclusions:

I. Some bedsheet are blanket - True (All blankets are bedsheet it means some blankets will be also bedsheet).

II. No curtain is a blanket - True (Because, All blankets are bedsheet and No bedsheet is a curtain, so all the Blankets are part of Bedsheet that is not Curtain, it also means No curtain is a blanket).

So, Both conclusion I and II follow.

Hence, the correct answer is "Option 1".

Q17. Answer: (b) ÷ and -

Given equation: 46 + 28 × 2 - 7 ÷ 13 = 41.

BODMAS Table:

Let's check each option one by one.

Option 1) × and +

Given: 46 + 28 × 2 - 7 ÷ 13 = 41

After interchanging the numbers we get;

=> 46 × 28 + 2 - 7 ÷ 13 = 41

=> 46 × 28 + 2 - 0.54 = 41

=> 1288 + 2 - 0.54 = 41

=> 1290 - 0.54 = 41

=> 1289.46 ≠ 41

=> LHS ≠ RHS

Option 2) ÷ and -

Given: 46 + 28 × 2 - 7 ÷ 13 = 41

After interchanging the numbers we get;

=> 46 + 28 × 2 ÷ 7 - 13 = 41

=> 46 + 8 - 13 = 41

=> 54 - 13 = 41

=> 41 = 41

=> LHS = RHS

Option 3) + and ÷

Given: 46 + 28 × 2 - 7 ÷ 13 = 41

After interchanging the numbers we get;

=> 46 ÷ 28 × 2 - 7 + 13 = 41

=> 3.29 - 7 + 13 = 41

=> 16.29 - 7 = 41

=> 9.29 ≠ 41

=> LHS ≠ RHS

Option 4) ÷ and ×

Given: 46 + 28 × 2 - 7 ÷ 13 = 41

After interchanging the numbers we get;

=> 46 + 28 ÷ 2 - 7 × 13 = 41

=> 46 + 14 - 7 × 13 = 41

=> 46 + 14 - 91 = 41

=> 60 - 91 = 41

=> - 31 ≠ 41

=> LHS ≠ RHS

Hence, the correct answer is "Option 2".

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Q18. Answer: (c) 72

The logic followed here is:

Logic: 1st number × 3 = 2nd number.

Now,

For, 54 : 162

=> 54 × 3 = 162.

For, 38 : 114

=> 38 × 3 = 114.

Similarly, for ? : 216

=> 72 × 3 = 216.

Hence, the correct answer is "Option 3".

Q19. Answer: (c) 32

The logic followed here is:

Logic: (Sum of the place value of all numbers) - 20 = Code of the word.

'PAIN' is written as '20'

=> (16 + 1 + 9 + 14) - 20

=> 40 - 20 = 20.

'HER' is written as '11'

=> (8 + 5 + 18) - 20

=> 31 - 20 = 11.

Similarly, for 'TIER'

=> (20 + 9 + 5 + 18) - 20

=> 52 - 20 = 32.

So, 'TIER' will be written as '32'.

Hence, the correct answer is "32".

Q20. Answer: (b) GHM

The logic followed here is:

Logic: Each letter in the cluster is obtained by moving three positions forward in the English alphabet.

Let's check each option as per the logic:

Option 1) NOS → N + 1 = O, O + 4 = S.

Option 2) GHM → G + 1 = H, H + 4 = L ≠ M.

Option 3) BCG → B + 1 = C, C + 4 = G.

Option 4) JKO → J + 1 = K, K + 4 = O.

Based on the given logic, Option 2 (GHM) is different from the rest.

Hence, the correct answer is "Option 2".

Q21. Answer: (b) 1, 2, 4, 3, 5

The logic followed here is:

Logic → The given words represent body parts, progressing from the upper part to the lower part of the body.

The correct logical order is:

1) Eyes

2) Lips

4) Neck

3) Stomach

5) Legs

Hence, the correct answer is "1, 2, 4, 3, 5".

Q22. Answer: (c) NM

The logic followed here is:

SH : IT

Similarly, for LM : ?

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So, 'LM : NM' would be the related letters.

Hence, the correct answer is "Option 3".

Q23. Answer: (c) 5

According to the given Venn diagram:

The shaded area shows the "total number of horses are neither clips nor bags".

So, the total number of 'horses are neither clips nor bags' = 5.

Hence, the correct answer is "5".

Q24. Answer: (c) (48, 31, 79)

The logic followed here is:

Logic: Difference of First number and Last number = Middle number.

Now,

For (141, 13, 128)

→ 141 - 128 = 13.

For (238, 164, 402)

→ 402 - 238 = 164.

Similarly, for (48, 31, 79)

→ 79 - 48 = 31.

Hence, the correct answer is "Option 3".

Q25. Answer: (d) (63, 56, 49)

The logic followed here is:

Logic: (1st number + 3rd number) ÷ 2 = 2nd number.

Now,

For (80, 72, 64)

→ (80 + 64) ÷ 2

→ 144 ÷ 2 = 72.

For (64, 56, 48)

→ (64 + 48) ÷ 2

→ 112 ÷ 2 = 56.

Similarly, for (63, 56, 49)

→ (63 + 49) ÷ 2

→ 112 ÷ 2 = 56.

Hence, the correct answer is "Option 4".

Q26. Answer: (b) Pranav Anand

Correct Answer Pranav Anand

Key Points

• 15-year-old Pranav Anand became the 76th Grand Master of India.

• He achieved this feat by crossing 2500 ELO ratings at the ongoing World Youth Chess Championship in Mamaia, Romania.

• The 15-year-old had already met the rest of the criteria to earn the Grand Master title.

• To become a Grand Master, a player has to achieve three Grand Master norms and in addition, his 'Live Rating' must exceed 2500 ELO points.

• Pranav achieved the third and final grandmaster norm at the Biel Chess Festival in Switzerland in July.

Additional Information Rameshbabu Praggnanandhaa

• Grandmaster of chess Rameshbabu "Pragg" Praggnanandhaa was born in India on August 10, 2005.

• He was a chess prodigy who became the second-youngest grandmaster at the time at age 12 after becoming the youngest international master at age 10 at the time.

• He defeated world number one chess champion, Magnus Carlsen, of Norway, at the age of 16 in a rapid game on February 22, 2022, at the Airthings Masters Rapid tournament of the Champions Chess Tour 2022.

• After the legendary chess players P Harikrishna and Vishwanathan Anand, he is the third Indian to defeat Magnus Carlsen.

• He makes the history of the youngest player to ever do so.

• He again defeated Carlsen in the Chessable Masters online rapid chess competition in May 2022, his second victory against him

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in three months.

• After Abhimanyu Mishra, Sergey Karjakin, Gukesh D, and Javokhir Sindarov, Pragganandhaa is the fifth person under the age of 30 to hold the title of Grandmaster.

Viswanathan Anand is the first Indian chess grandmaster in 1988 and a former world chess champion.

• At the age of 15, Anand became the youngest Indian to win the title of International Master (IM) 1984.

• Anand won his first National Chess Championship in 1986.

• The title of Grandmaster was awarded to 'Vishy' in 1988.

• He won the Chess Oscar six times.

• He won the Fédération Internationale des Échecs (FIDE; international chess federation) world championship in 2000, 2007, 2008, 2010, and 2012.

Pentala Harikrishna is an Indian chess player. He became the youngest grandmaster from India.

• He was Commonwealth Champion in 2001, World Junior Champion in 2004, and Asian Individual Champion in 2011.

Q27. Answer: (b) Saina Nehwal

The correct answer is Saina Nehwal.

Key Points:

• Saina Nehwal is the first Indian Badminton player to have won an Olympic medal.

• She won the Bronze medal in women's singles at the London Olympics in 2012.

• She defeated China's, Wang Xin to clinch the medal.

Additional InformationP.V. Sindhu:

• She is an India Badminton player from Hyderabad, Telangana.

• She won a bronze medal in the 2020 Summer Olympics (Tokyo).

• She fetched the Silver medal at Rio Olympics, 2016, South Asian Games, 2016 and Commonwealth Games held at Gold Coast Australia, 2018.

• She won the Badminton World Federation (BWF) Championships and clinched a Gold.

• She has been honoured with Arjuna Award (2013), Padma Shri (2015), Rajiv Gandhi Khel Ratna (2016) and Padma Bhushan (2020).

Srikanth Kidambi:

• Srikanth Kidambi is a famous Indian Badminton player hailing from Hyderabad.

• He was awarded the Padma Shri (fourth highest civilian award) in the year 2018.

• He was also awarded the 'Arjuna Award' in 2015.

Chirag Shetty:

• Chirag Shetty is an accomplished professional badminton player from India.

• At the Asia Team Championships in Hyderabad in 2016, he made his international debut and took home the bronze medal.

• At the 2018 Commonwealth Games, he earned the Mixed Team Gold Medal and the Men's Doubles Silver Medal.

• At the 2022 Commonwealth Games, he won the men's doubles gold medal.

• In 2020, he received the Arjuna Award.

Q28. Answer: (b) Ring Worm

The correct answer is Ring Worm.

Key Points:Ringworm

• It is caused by fungus that live on dead tissues like skin, hair and nail.

• It causes Jock Itch and Athlete's foot.

• A red patch that may itch often turns into a raised ring-shaped patch of skin over time.

• It is highly contagious and can be transmitted by skin to skin contact or contact with pets.

• Creams and medicated ointments are often enough to treat it.

• Basic hygiene can prevent it.

Additional Information:Cholera:

• It is a life-threatening infectious disease and a public health hazard.

• Cholera is an acute, diarrheal illness caused by infection of the intestine with the bacterium Vibrio cholerae.

• The infection is often mild or without symptoms, but sometimes can be severe.

Symptoms:

• Profuse watery diarrhoea

• Vomiting

• Leg cramps

Transmission:

• A person may get cholera by drinking water or eating food contaminated with the cholera bacterium.

• The disease can spread rapidly in areas with inadequate treatment of sewage and drinking water.

Vaccine:

• Currently there are three WHO pre-qualified oral cholera vaccines (OCV), Dukoral, Shanchol, and Euvichol-Plus.

• All three vaccines require two doses for full protection.

Tuberculosis:

• TB is caused by a bacterium called Mycobacterium tuberculosis, belonging to the Mycobacteriaceae family consisting of about 200 members.

• In humans, TB most commonly affects the lungs (pulmonary TB), but it can also affect other organs (extra-pulmonary TB).

• It can spread from person to person through the air.

COVID-19:

• The new coronavirus – COVID-19 – was first identified in Wuhan, China in December 2019.

• Coronaviruses belong to a family of viruses called Coronaviridae and the order Nidovirales.

• Coronaviruses get their name from their crown-like shape (corona is Latin for crown).

• They are found in animals and birds and are zoonotic – as they are transmitted between animals and people.

Q29. Answer: (a) Akbar

Correct Answer Akbar

Key Points

• The royal city at Fatehpur Sikri was built by the Mughal emperor Akbar during the second half of the 16th century.

• It was celebrated as the city of Victory of the Mughal Empire, which was the capital city for more than 10 years from 1571 to 1585.

• It was turned as Fatehabad (the city of Victory) where the legendary sons of Akbar were born.

• It’s also known for the complex of monuments and temples all in uniform architectural style.

Additional InformationAkbar (1542- 1605)

• He reigned from 1556 to 1605.

• He constructed Fatehpur Sikri and made it his capital in 1569.

• Buland Darwaza was constructed at the gate.

• He started a new religion Din-i Ilahi in 1581-82.

• Abul Fazl wrote his biography titled Akbarnama.

• Nine of his courtiers were known as Navratnas.

• They were Todar Mal, Abul Fazal, Faizi, Birbal, Tansen, Abdur Rahim Khana-i-Khana, Mullah-do-Pyaza, Raja Man Singh, and Fakir Aziao-Din.

• He married a Hindu princess Harka Bai who is commonly known as Jodha Bai.

• Akbar captured the historic fortress of Chitor in 1568.

• He abolished the pilgrimage tax by Hindus in 1563.

• He also abolished the Jizyah tax in 1564.

• He also introduced the Mansabdari System or the rank-holder system to organize the nobility and army.

Aurangzeb (1658 AD-1707 AD):

• Aurangzeb defeated Dara at Dharmat (1658 AD), Samugarh (1658 AD), and Deorai, in which Samugarh was the decisive one and Deorai was the last one.

• After the victory, Aurangzeb was crowned at Delhi under the title Alamgir. He died in February 1707 in Ahmadnagar.

• Aurangzeb captured Guru Teg Bahadur, the 9th Guru of Sikhs in 1675 AD and executed him when he refused to embrace Islam.

• The 10th and last Sikh Guru, Guru Gobind Singh, son of Guru Teg Bahadur, organized his followers into a community of warriors called Khalsa to fight against the Muslims.

• Chhatrapati Shivaji Maharaj was the most powerful Maratha king and an arch-enemy of Aurangzeb.

• The Mughal conquests reached a climax during Aurangzeb’s reign as Bijapur and Golconda were annexed in 1686 AD and 1687 AD, respectively.

• Under him, the Mughal empire reached its greatest extent and the largest single-state ever known in India.

• He forbade the inscription of Kalma on the coins, also forbade sati and Jharokha-darshan.

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• He ended the celebration of Navroz and, in 1679 AD, reimposed Jizya.

Shah Jahan:

• On 5 January 1592, Shahab-ud-din Muhammad Khurram, later known as Shah Jahan, was born to Mughal Emperor Jahangir and his wife Jagat Gosaini.

• Shah Jahan was an able military commander.

• On becoming the emperor, Shah Jahan executed many of his former rivals including his own brother Shahryar.

• Before becoming king, as a prince, he had been the governor of the Deccan, Bihar, Bengal, Gujarat, and Delhi.

• As king, Shah Jahan expanded the military and promoted the production of arms. He annexed several territories.

• Shah Jahan married multiple times as was the custom.

• His favorite was said to be Arjumand Banu Begum who is better known as Mumtaz Mahal.

• She died during childbirth in 1631 and Shah Jahan was said to be depressed.

• He got the Taj Mahal built in her honor and perhaps, he is most famous for this architectural feat.

• He also created many other architectural marvels including the Pearl Mosque at Agra, the Red Fort, the Jama Masjid at Delhi, the Shalimar Gardens, and some other buildings in present Pakistan.

• He also got the famous Peacock Throne built.

Jahangir

• In 1605, Prince Salim succeeded with the title Jahangir (Conqueror of World) when he assumed the throne after the death of Akbar.

• He issued 12ordinances. He is known for his strict administration of justice.

• He established Zanjir-i-Adil (chain of justice) at Agra for the seekers of royal justice.

• He is the eldest son of Akbar was born at Fatehpur Sikri near Agra in 1569.

• In 1611, he married Mehr-un-Nisa whom he gave the title of Nur Jahan (light of the world).

• Nurjahan exercised tremendous influence over state affairs. She was made the official Badshah Begum.

• Jahangir issued coins jointly in Nurjahan's name and his own.

• Jahangir also married Manbai in 1585 AD and Jodhbai in 1587 AD.

• He defeated and imprisoned his son, Khusrau Mirza.

• He also beheaded Guru Arjun, the 5th Sikh Guru and one of the supporters of Khusrau Mirza.

• Captain Hawkins (1608-1611) and Sir Thomas Roe (1615-1616) visited Jahangir's court.

• Production of Tobacco started in his reign.

• He wrote his autobiography Tuzuk-i-Jahangir.

• He was buried in Lahore in 1627.

Q30. Answer: (d) 16

Correct Answer 16

Key Points

• India has won a total of 61 medals in the Commonwealth Games 2022.

• 22 gold,

• 16 silver, and

• 23 bronze

• In the 2018 Commonwealth Games, India won a total of 66 medals out of which 16 were in shooting.

• This time shooting was not included.

• India finished fourth in the medal tally.

• Australia took first place.

• England finished second and Canada third.

• New Zealand finished fifth.

Additional Information:

• India has won the total number of gold medals in the history of the Commonwealth Games (CWG Upto 2022) is 203.

• Australia (1003 gold medals) is at the top in terms of the total number of gold medals in the Commonwealth Games, while England (773) is second and Canada (510) is in third place.

• India won its first gold in the Commonwealth Games in 1958 which was won by legendary sprinter Milkha Singh.

• India has won a gold medal in every Commonwealth Games since then (didn't participate in 1962 and 1986).

• The 2010 Commonwealth Games in Delhi has been the most successful for India in which it won 38 gold medals.

Q31. Answer: (c) 74.04 percent

The correct answer is 74.04 percent

Key Points:

• As per the census 2011, the literacy rate of India is 74.04%, 82.14% for males and 65.46% for females.

• For the purpose of census 2011, a person aged seven and above, who can both read and write with understanding in any language, is treated as literate.

• A person, who can only read but cannot write, is not literate.

• Kerala retained its position by being on top with a 93.91% literacy rate, followed by Lakshadweep (92.28%) and Mizoram (91.58%).

• Bihar with a literacy rate of 63.82% ranks last in the country preceded by Arunachal Pradesh (66.95%t) and Rajasthan (67.06%).

Hence, the correct answer is 74%.

Additional Information:Census in India:

• It was done for the first time in 1872 under the British Viceroy Lord Mayo.

• After that, it is conducted at intervals every 10 years.

• However, the first complete census of India was conducted in 1881.

• Since 1949, it is conducted by the Registrar General and Census Commissioner of India under the Ministry of Home Affairs, Government of India.

• All censuses after 1951 were conducted under the 1948 Census Act.

• As of 2011, the Census of India has been conducted 15 times.

Q32. Answer: (a) IIT Guwahati

Correct Answer is IIT Guwahati

Key Points:

• President of India Droupadi Murmu, on October 13, inaugurated ‘PARAM Kamrupa’ Supercomputer facility and a high-power active and passive component laboratory of SAMEER at the Indian Institute of Technology, Guwahati on the first day of her visit to the State.

• The Society for Applied Microwave Electronics Engineering and Research (SAMEER) is a Research & Development Institute under the administrative control of the Ministry of Electronics and Information Technology (MeitY), Government of India.

• Centre for High Power Microwave Tube & Component Technology (CHMTCT) under SAMEER, located in IIT Guwahati, Assam, has been started in 2015 with a specialization in the area of high-power microwave tube and component technology.

• The PARAM Kamrupa, one of its kind supercomputer in the North East region, is installed under the National Supercomputing Mission.

• The Super Computer Param Kamrupa will provide advanced computing, and healthcare techniques along with solutions for many issues to this region.

• She also informed that many components of this supercomputer were developed indigenously.

Additional Information

• The performance of a supercomputer is commonly measured in floating-point operations per second (FLOPS) instead of million instructions per second (MIPS).

• Since 2017, there have existed supercomputers that can perform over 1017 FLOPS (a hundred quadrillion FLOPS, 100 petaFLOPS or 100 PFLOPS).

Q33. Answer: (b) surface-to-air

The correct answer is surface-to-air

Key Points:

• S-400 is called Triumf(read Triumph).

• S-400 is a missile defense system.

• India signed a deal with Russia in October 2018 for the delivery of 5 missile defense systems.

• The deal was for US $5.43 billion.

• India faced the threat of sanctions at the time of signing of the deal by Countering America’s Adversaries Through Sanctions Act (CAATSA).

• The system can engage in all types of aerial targets:

1. Aircraft

2. Unmanned Aerial Vehicle

3. Ballistic Missiles

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4. Cruise Missiles

• S-400 can track 100 airborne targets and engage 6 targets simultaneously.

• S-400 is developed by Almaz Central Design Bureau, Russia.

Additional Information:

• The first successful test was carried out by Russia in 1999.

• S-400 was inducted by the Russian Army in 2001.

• Dr. Alexander Lemanskiy was the Chief Engineer for S-400.

• Terminal High Altitude Area Defence System(THAAD) is a US-developed missile defense system equivalent to S-400.

Q34. Answer: (a) Balloon Mortgage

Correct Answer Balloon Mortgage

Key Points In this type of loan, borrowers make low payments for a certain period of time and then pay off the remaining balance in one large lump sum, or "balloon" payment, at the end of the loan term.

Initial Low Payments:

• Balloon loans typically have lower initial payments compared to traditional loans.

• This is because these payments are primarily based on the interest of the loan, not the principal.

Lump Sum Payment:

• The defining feature of a balloon loan is the large "balloon" payment due at the end of the loan term.

• This payment covers the remaining principal of the loan.

Short Term:

• Balloon loans usually have shorter terms than traditional installment loans.

• The term is often 5 to 7 years, but the balloon payment is based on what the balance would be after a longer term, often 30 years.

Risk of Default:

• There is a higher risk of default with balloon loans.

• If borrowers cannot make the large balloon payment at the end of the term, they may need to refinance the loan, sell the asset, or default on the loan.

Common in Real Estate:

• Balloon loans are often used in real estate transactions, particularly for commercial properties or short-term real estate investments.

• They can also be used for personal loans and auto loans.

Q35. Answer: (d) Hubble constant

The Correct answer is Hubble constant

Key Points:

• 'Expanding Universe'

• Edwin Hubble, an American astronomer, was the first to prove that the universe is expanding.

• According to Expanding Universe theory, the universe is presently expanding.

• Hubble proved that there is a direct relationship between the speeds of distant galaxies and their distances from Earth.

• This is now known as Hubble’s Law.

Additional Information:Faraday:

• When an electric current passes up to 1 second due to 96485 C, through an electrolyte then the equivalent weight of the electrolyte deposited is one & this amount of electric current is called 1 Faraday.

• Faraday constant (F) = 96485C mol−1

• The constant is named after the British physicist Michael Faraday.

• It is a universal constant.

• It is the amount of electric charge carried by 1 mole of electrons.

• Represented by F & its measuring unit is Coulombs per mole (C.mol-1).

Q36. Answer: (b) Popular Front of India (PFI)

Correct Answer Popular Front of India (PFI)

Key Points:

• The Ministry of Home Affairs (MHA) of India declared the Popular Front of India (PFI) and its front organizations, including its student wing- the Campus Front of India (CFI), as an “unlawful association” under the Unlawful Activities (Prevention) Act (UAPA)

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in September 2022.

• The Muslim organization has been banned for five years along with eight associates or front organizations.

• The MHA has also issued another order empowering States to notify places associated with PFI and its front organizations where unlawful activity is taking place.

• The ban comes close on the heels of a countrywide raid on September 22 when 109 members of the groups were arrested by the National Investigation Agency (NIA) and other agencies.

Additional Information:About the Unlawful Activities (Prevention) Act:

• Passed in 1967, the law aims at the effective prevention of unlawful activity associations in India.

• The Act assigns absolute power to the central government, by way of which if the Centre deems an activity as unlawful then it may, by way of an Official Gazette, declare it so.

• It has the death penalty and life imprisonment as the highest punishments.

• Under UAPA, both Indian and foreign nationals can be charged.

• It will be applicable to the offenders in the same manner, even if the crime is committed on foreign land, outside India.

• Under the UAPA, the investigating agency can file a charge sheet in a maximum of 180 days after the arrests and the duration can be extended further after intimating the court.

Q37. Answer: (a) USA

The correct answer is USA

Key Points

• NASA's Double Asteroid Redirection Test (DART), the world's first full-scale mission to test technology for defending Earth against potential asteroid or comet hazards.

• Launched from Space Launch Complex 4 East at Vandenberg Space Force Base in California.

• DART is the first-ever mission dedicated to investigating and demonstrating one method of asteroid deflection by changing an asteroid's motion in space through kinetic impact.

• DART is a joint project between NASA and the Johns Hopkins Applied Physics Laboratory (APL).

• NASA stands for National Aeronautics and Space Administration.

• The National Aeronautics and Space Administration is an independent agency of the USA which is responsible for the civilian space program, aeronautics, and aerospace research.

• It was established in 1958 with headquarters at Two Independence Square, Washington, D.C., United States.

• Dwight D. Eisenhower was its founder.

Additional Information:

• Headquater of Roscosmos - Moscow.

• Its launch facilities include Baikonur Cosmodrome in Kazakhstan, the world's first and largest spaceport, and Vtochny Cosmodrome, which is being built in the Russian Far East in Amur Oblast.

• The launch of Chandrayaan-3 is planned for August 2022.

• On July 22, 2019, Chandrayaan-2's rocket successfully lifted off with the Vikram Lander and Pragyan rover housed in it.

• ISRO built India's first satellite, Aryabhata, which was launched by the Soviet Union in 1975.

• JAXA

• JAXA was formed on 1 October 2003.

• It is responsible for research, technology development, and the launch of a satellite into orbit and is involved in many more advanced missions such as asteroid exploration and possible human exploration of the moon.

Q38. Answer: (b) 1927

The correct answer is 1927.

Key Points

• Dr. Ambedkar start a temple entry movement in 1927.

• It was a movement to allow lower caste people to enter temples.

• Ambedkar led three such movements for temple entry between 1927 and 1935.

• One of them was the Kalaram Temple entry movement initiated under the guidance of Dr B.R. Ambedkar on 2nd March 1930.

Additional Information

• Dr. Bhimrao Ambedkar is known as the father of the Indian constitution.

• Dr. Ambedkar fought to eradicate social evils like untouchability and for the rights of the Dalits and other socially backward classes throughout his life.

Q39. Answer: (b) 1%

The correct answer is 1%.

Key Points

• Public healthcare spending refers to the funds allocated by the government towards healthcare services, infrastructure, and programs to benefit the general public.

• According to the Economic Survey 2020-21, India's public healthcare spending as a percentage of GDP stood at around 1%.

• This percentage reflects the proportion of the country's total economic output (GDP) that is dedicated to public healthcare expenditures.

• The low percentage of public healthcare spending highlights the relatively limited financial resources allocated by the government toward healthcare infrastructure, services, and programs.

• The low level of public healthcare spending has implications for the overall accessibility and quality of healthcare services available to the general population.

• Insufficient public healthcare spending can lead to challenges such as inadequate healthcare infrastructure, shortages of medical equipment and supplies, limited availability of healthcare professionals, and difficulties in providing affordable and accessible healthcare services to all citizens.

• The COVID-19 pandemic has further emphasized the need for increased healthcare spending to strengthen the healthcare system, enhance preparedness for emergencies, and improve the overall health outcomes of the population.

• The Indian government has been working towards increasing public healthcare spending to address the existing gaps in the healthcare system. However, the target of increasing spending to 2.5% of GDP, as recommended by the National Health Policy 2017, is yet to be achieved.

• Increasing public healthcare spending is crucial for improving healthcare infrastructure, ensuring the availability of essential medicines, enhancing preventive healthcare programs, expanding healthcare coverage, and providing quality healthcare services to all citizens.

• Higher public healthcare spending can contribute to improved healthcare outcomes, reduced healthcare costs for individuals, enhanced disease prevention and control, and overall better health and well-being of the population.

Additional Information

Here are some key facts from the Economic Survey of India 2020-21:

• Economic Growth: The Economic Survey provides an analysis of India's economic performance. According to the Economic Survey 2020-21, India experienced a sharp contraction of 7.7% in real GDP during the financial year 2020-21 due to the impact of the COVID-19 pandemic.

• Agriculture Sector: The survey highlights the importance of the agriculture sector in the Indian economy. It states that the agriculture sector remained resilient during the pandemic, recording positive growth of 3.4% in 2020-21.

• Manufacturing and Services Sectors: The survey analyzes the performance of the manufacturing and services sectors. It indicates that both sectors were significantly affected by the pandemic-induced disruptions, leading to a contraction in output and employment.

• Fiscal Deficit: The Economic Survey provides insights into the fiscal health of the country. As per the survey, India witnessed a sharp increase in the fiscal deficit, reaching 9.5% of GDP in 2020-21. This increase was primarily driven by higher expenditure to mitigate the impact of the pandemic.

• Investment and Savings: The survey emphasizes the importance of investment and savings for economic growth. It highlights the need for higher investment rates to stimulate economic activity and generate employment.

• Financial Sector: The Economic Survey discusses various aspects of the financial sector, including banking, insurance, and capital markets. It provides an analysis of the reforms undertaken in the sector and their impact on financial stability and inclusion.

• Infrastructure Development: The survey recognizes the significance of infrastructure development for economic growth. It emphasizes the need for increased investment in infrastructure sectors such as transportation, energy, and telecommunications.

• Ease of Doing Business: The survey evaluates the ease of doing business in India and identifies areas for improvement. It discusses reforms implemented to enhance the business environment, attract investments, and promote entrepreneurship.

• Social Sectors: The Economic Survey sheds light on various social sectors such as education, healthcare, and poverty alleviation. It highlights the progress made in these sectors and outlines policy measures for inclusive growth and development.

• Sustainable Development: The survey recognizes the importance of sustainable development and discusses environmental challenges. It emphasizes the need for balancing economic growth with environmental conservation and climate change mitigation.

Q40. Answer: (b) C. V. Raman

The correct answer is C. V. Raman.

Key Points

• The Nobel Prize in Physics 1930 was awarded to Sir Chandrasekhara Venkata Raman for his work on the scattering of light and for the discovery of the effect named after him.

• Scattering of Light

• If the molecules of a medium, after absorbing incoming radiations, emit them in all possible directions, the process is called scattering. Rayleigh has shown that the intensity of scattered light is inversely proportional to the fourth power of wavelength (or directly proportional to the fourth power of frequency).

Additional Information

• Facts About Dr. C V Raman:

• Name: Dr. Chandrashekhra Venkataraman or C.V. Raman

• Born on: 7 November 1888

• Place of Birth: Tiruchirappalli, Tamil Nadu

• Father's Name: R. Chandrashekhara Aiyer

• Mother's Name: Parvathi Ammal

• Spouse Name: Lokasundari Ammal

• Died on: 21st November 1970

• Place of Death: Bangalore, India

• Discovery: Raman Effect

• Awards: Matteucci Medal, Knight Bachelor, Hughes Medal, Nobel Prize in Physics, Bharat Ratna, Lenin Peace Prize, Fellow of the Royal Society.

Q41. Answer: (b) The areas where the warm and cold currents meet provide the best fishing grounds.

The correct answer is The areas where the warm and cold currents meet provide the best fishing grounds.

Key Points

• Ocean currents are streams of water flowing constantly on the ocean surface in definite directions.

• The ocean currents may be warm or cold.

• Generally, the warm currents originate near the equator and move toward the poles.

• The cold currents carry water from polar or higher latitudes to tropical or lower latitudes.

• The Ocean current influences the temperature conditions of the area.

• The areas where the warm and cold currents meet provide the best fishing grounds of the world.

• Seas around Japan and the eastern coast of North America are such examples.

Additional Information

Warm Ocean Currents	Cold Ocean Currents
Gulf Stream	Labrador Current
Kuroshio Current	Canary Current
North Atlantic Drift	Benguela Current
Brazil Current	Humboldt Current
East Australian Current	California Current
Agulhas Current	Antarctic Circumpolar Current
Somali Current	Peru Current

Q42. Answer: (c) dBase

The correct answer is dBase.

Key Points

• What is a Database?

• A database is a collection of related data which represents some aspect of the real world. A database system is designed to be built and populated with data for a certain task.

• What is DBMS?

• Database Management System (DBMS) is a software for storing and retrieving users' data while considering appropriate security measures. It consists of a group of programs that manipulate the database. The DBMS accepts the request for data from an application and instructs the operating system to provide the specific data. In large systems, a DBMS helps users and other third-party software to store and retrieve data.

• DBMS allows users to create their own databases as per their requirements. The term “DBMS” includes the use of the database and other application programs. It provides an interface between the data and the software application.

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• Some DBMS examples include MySQL, PostgreSQL, Microsoft Access, SQL Server, FileMaker, Oracle, RDBMS, dBASE, Clipper, and FoxPro. Since there are so many database management systems available, it is important for there to be a way for them to communicate with each other. For this reason, most database software comes with an Open Database Connectivity (ODBC) driver that allows the database to integrate with other databases. For example, common SQL statements such as SELECT and INSERT are translated from a program's proprietary syntax into a syntax other databases can understand.

• dBase is considered to be the 1st DBMS software for all types of microcomputer systems.

Q43. Answer: (b) Hyderabad

The Correct Answer is Hyderabad.

Key Points

• Hyderabad recently received the prestigious World Green City Award 2022.

• Hyderabad has beaten the cities like Paris, Bogota, Mexico City, Montreal, and Fortaleza to receive World Green City Award 2022 – the best across all six categories.

• Hyderabad received the award at the International Association of Horticulture Producers (AIPH) 2022.

• The announcement of the winners under six categories and the grand winner was made during the special gala dinner at the IUCN Leaders Forum held in Jeju, South Korea.

• The six categories of the award are Living Green for Biodiversity, Living Green for Climate Change, Living Green for Health and well-being, Living Green for Water, Living Green for Social Cohesion and Living Green for Economic Recovery and Inclusive Growth.

• Hyderabad won “Living Green for Economic Recovery and Inclusive Growth” during the AIPH event.

Additional Information About Hyderabad

• Hyderabad is located in the southern state of Telangana, India. It is the capital of Telangana and the fifth-largest city in India.

• The population of Hyderabad is over 10 million people. It is a cosmopolitan city with people from all over India and the world living there.

• Hyderabad has a hot, dry climate. The summers are very hot and humid, while the winters are mild.

• The official language of Hyderabad is Telugu. However, English is widely spoken in the city.

• The majority of the people in Hyderabad are Hindu, but there are also significant populations of Muslims, Christians, and Jains.

• Hyderabad is a major economic hub in India. It is home to many software companies, IT firms, and educational institutions.

• Hyderabad is a popular tourist destination. The city has many historical monuments, including the Charminar, Golconda Fort, and the Qutub Shahi Tombs. It also has a number of parks, gardens, and museums.

Q44. Answer: (b) Power of the President to consult the Supreme Court

The correct answer is Power of the President to consult the Supreme Court.

Key Points

• As per Article 143, the President has the power to address questions to the Supreme Court, that he deems important for public welfare.

• The Supreme Court “advises” the President by answering the query put before it.

• Article 143 of the Constitution confers Advisory Jurisdiction to the Supreme Court of India.

Additional Information

• Article 143: Power of President to consult Supreme Court.

1. If at any time it appears to the President that a question of law or fact has arisen, or is likely to arise, which is of such a nature and such public importance that it is expedient to obtain the opinion of the Supreme Court upon it, he may refer the question to that Court for consideration and the Court may, after such hearing as it thinks fit, report to the President its opinion thereon.

2. The President may, notwithstanding anything in the proviso to article 131, refer a dispute of the kind mentioned in the said proviso to the Supreme Court for opinion and the Supreme Court shall, after such hearing as it thinks fit, report to the President its opinion thereon.

Q45. Answer: (c) President

The correct answer is President.

Key Points

• Article 72 of the Constitution empowers the President to grant pardons to persons who have been tried and convicted of any offence in all cases where the:

• Punishment or sentence for an offence against a Union Law.

• Punishment or sentence is by a court-martial (military court).

• Punishment is a Death sentence.

• Pardoning Power of President

• Article 72 empowers the President the power to grant pardons, reprieves, respites or remissions of punishment or to suspend, remit or commute the sentence of any person convicted of any offence.

• The meaning of these terms is as follows:

• Pardon: It removes both the sentence and the conviction and completely absolves the convict from all sentences, punishments, and disqualifications.

• Commutation: It denotes the substitution of one form of punishment with a lighter form of punishment. For example, a death sentence may be commuted to rigorous imprisonment.

• Remission: It implies reducing the period of the sentence without changing its character. For example, a sentence of rigorous imprisonment for five years may be remitted to rigorous imprisonment for one year.

• Respite: It denotes awarding a lesser sentence in place of one originally awarded due to some special fact, such as the physical disability of a convict or the pregnancy of a woman offender.

• Reprieve: It implies a stay of the execution of a sentence (especially that of death) for a temporary period. Its purpose is to enable the convict to have time to seek pardon or commutation from the President.

Additional Information

Articles	Statements
Article 52	The President of India
Article 53	The executive power of the Union
Article 54	Election of President
Article 55	Manner of election of President
Article 65	States about The vice president to act as the president or to discharge his function on casual vacancies in the office, or during the absence, of the president.
Article 66	Election of vice president.
Article 67	Term of office of vice president.
Article 68	Time of holding an election to fill the vacancy of the office of vice president and the term of office of the person elected to fill a casual vacancy.
Article 69	Oaths or affirmation by the vice president.
Article 70	Discharge of presidents functions in other contingencies.
Article 71	The matter related to or connected with, the election of a president or vice president.
Article 72	Power of the president to grant pardons, etc, and to suspend, remit or commute sentences in a certain case.
Article 73	The extent of executive power of the union
Article-81	Composition of the House of the People

Q46. Answer: (c) 1859

The correct answer is 1859.

Key Points

The Indigo Rebellion (Neel Bidroho) started in Bengal in March 1859 and was a revolt by the farmers against British planters who had forced them to grow indigo under terms that were greatly unfavorable to the farmers.

• The indigo farmers revolted in the Nadia district of Bengal by refusing to grow indigo.

• They attacked the policemen who intervened.

• The planters, in response to this, increased the rents and evicted the farmers which led to more agitations.

• In April 1860, all the farmers in the Barasat division of the districts Nadia and Pabna went on a strike and refused to grow indigo.

• The strike spread to other parts of Bengal.

• The anger of the peasants exploded in 1859 when led by Digambar Biswas and Bishnu Biswas of Nadia district, they decided not to grow indigo under duress and resisted the physical pressure of the planters.

• The revolt was suppressed and many farmers were slaughtered by the government and some of the zamindars.

• The revolt was backed by the Bengali intelligentsia, Muslims, and missionaries. The whole of the rural population supported the revolt.

• The press also supported the revolt and played its part in portraying the plight of the farmers and fighting for their cause.

From the above, we can conclude that the 'Indigo Revolt' took place in Bengal in March 1859.

Additional Information

Peasant Revolt	Year	Region	Causes	Outcome
Santhal Rebellion	1855-1856	Bengal Presidency (Present-day Jharkhand)	Land alienation, high taxes, and exploitation by moneylenders	Crushed by the British, significant loss of life among rebels, but raised awareness of peasant grievances
Deccan Riots	1875	Deccan	High taxes, economic distress, and drought	Suppression by British authorities; no significant changes
Pagal Panthis Uprising	1878-1879	Bihar and Bengal	Landlord oppression and demands for land redistribution	Suppression by British authorities; movement weakened but inspired future peasant movements
Mappila Uprising	1921	Malabar (Kerala)	Land issues, high taxes, and religious tensions	Brutally suppressed by British forces; large number of casualties
Bardoli Satyagraha	1928-1929	Gujarat	High land revenue and oppressive policies	Negotiated settlement; reduction in land revenue and improved conditions for peasants
Telangana Armed Struggle	1946-1951	Telangana	Landlord exploitation, oppressive feudal system, and poverty	Suppression by the Indian government; later led to land reforms and redistribution
Bardhaman-Tarakeswar Rebellion	1946-1947	Bengal	Demands for land redistribution and end of zamindari system	Suppression by British authorities; limited impact on the overall situation
Punnapra-Vayalar Uprising	1946	Kerala	Protests against high taxes and oppressive policies	Suppression by British forces; significant loss of life among rebels
Tebhaga Movement	1946-1947	Bengal	Demand for two-thirds share of crops for sharecroppers	Movement gained some concessions but ultimately suppressed by British authorities

Q47. Answer: (b) Dzongkha

The correct answer is Dzongkha.

Key Points

• The official Language of Bhutan is Dzongkha.

• The capital of Bhutan is Thimphu.

• The national animal is Takin (cattle chamois or gnu goat)

• The national bird is Common Raven

• The national flower is Blue poppy.

• The national sport is Archery.

• The national tree is Bhutan Cypress.

Additional Information

Country	Official Language(s)

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Bangladesh	Bengali
Pakistan	Urdu
Nepal	Nepali
Sri Lanka	Sinhala, Tamil
Myanmar	Burmese

Q48. Answer: (b) Frigid zone

The correct answer is Frigid zone.

Key Points

• Frigid Zone

• In the Southern Hemisphere, the frigid zone is the area located between the South Pole and Antarctic Circle.

• In the Northern Hemisphere, the frigid zone is the area located between the North Pole and the Arctic circle.

• The Frigid zones are located near the poles. Hence, Option 1 is correct.

• They are the coldest zones and are covered with ice and snow, most of the time. Hence, they are called frigid zones. Only slanting rays of the sun reach these zones as they are located at distance from the Equator. Thus, very little heat reaches these zones.

• The northern frigid zone lies between the North Pole and the Arctic Circle. It covers an area of 4.12 percent of the total earth's surface.

• The other frigid zone is the southern frigid zone which lies between the Antarctic Circle and the South Pole.

• Northern Temperate zone and Northern Frigid zone lies between the Tropic of Cancer and the Arctic Circle, and the Arctic Circle and the North Pole respectively.

• Frigid Zones are very cold areas.

• There is very little heat since the rays from the sun are slanting.

• In this zone, the sun does not rise much above the horizon.

Additional Information

Zones	Location
Frigid Zone	Further divided into 2 zones: 1. North frigid zone- between the Arctic Circle 66.5° N and the North Pole 90° N 2. South frigid zone- between the Antarctic Circle 66.5° S and the South Pole 90° S
Temperate Zone	Further divide into 2 zones: 1. The North temperate zone which is between the Tropic of Cancer 23.5° N and the Arctic Circle 66.5° N 2. The South temperate zone which is between the Tropic of Capricorn 23.5° S and the Antarctic Circle 66.5° S
Torrid zone	• Located between the Tropic of Cancer 23.5° N and the Tropic of Capricorn 23.5° S

Q49. Answer: (c) 1990

The correct answer is 1990.

Key Points

• Tim Berners-Lee, a British computer scientist, generally credited as the inventor of the World Wide Web.

• The development of the World Wide Web was begun in 1989 by Tim Berners-Lee and his colleagues at CERN, an international scientific organization based in Geneva, Switzerland.

• In 2004 he was awarded a knighthood by Queen Elizabeth II of the United Kingdom and the inaugural Millennium Technology Prize by the Finnish Technology Award Foundation.

Additional Information

Invention	Founder(s)
Telephone	Alexander Graham Bell
Electricity	Benjamin Franklin
Penicillin	Alexander Fleming

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Theory of Relativity	Albert Einstein
Internet	Vinton Cerf and Bob Kahn
DNA Structure	James Watson and Francis Crick
Microscope	Zacharias Janssen
Printing Press	Johannes Gutenberg
X-rays	Wilhelm Conrad Roentgen
Steam Engine	James Watt

NOTE: -

• Tim Berners-Lee indeed began working on the idea for the World Wide Web in 1989 while at CERN, the European physics research center. However, the first successful communication between a web browser and a server via the Internet happened on December 25, 1990. Because the options provided do not include 1989, the closest accurate option would be:

1990

This represents the year when the World Wide Web became a functioning entity. However, if 1989 were an option, it would be the most accurate choice to represent when Berners-Lee first started developing the concept.

Q50. Answer: (b) Four

The correct answer is Four.

Key Points

• The Vedas are considered the earliest literary record of Indo-Aryan civilization.

• There are four Vedas: Rigveda, Samaveda, Yajurveda and the fourth one is Atharvaveda.

Additional Information

• Rigveda

• Rigveda is regarded as one of the most sacred texts of Hinduism.

• It has fascinated scholars and historians due to its significance and antiquity.

• It is a collection of ancient Indian collections of Vedic Sanskrit hymns.

• The Rigveda is divided into ten books which are known as Mandalas.

• It is a collection of 10,600 verses and 1,028 hymns.

• It is the oldest text in any Indo-European language.

• It has originated as early as 1700 BC.

• The Angiras (rishi family) has composed 35% of the hymns and the Kanva family has composed 25% of Rig Veda.

• Yajurveda

• The Yajurveda is the Veda primarily of prose mantras for worship rituals.

• An ancient Vedic Sanskrit text is a compilation of ritual offering formulas that were said by a priest while an individual performed ritual actions such as those before the yajna fire.

• Yajurveda is one of the four Vedas, and one of the scriptures of Hinduism.

• The exact century of Yajurveda's composition is unknown and estimated by Witzel to be between 1200 to 800 BCE, contemporaneous with Samaveda and Atharvaveda.

• Atharvaveda

• The Atharva Veda is the "knowledge storehouse of atharvanas, the procedures for everyday life".

• The text is the fourth Veda but has been a late addition to the Vedic scriptures of Hinduism.

• It is a collection of 730 hymns with about 6,000 mantras, divided into 20 books.

• About a sixth of the Atharvaveda texts adapts verses from the Rigveda, and except for Books 15 and 16, the text is in poem form deploying a diversity of Vedic matters.

• Two different recensions of the text – the Paippalada and the Śaunakiya – have survived into modern times.

• Samaveda

• The Samaveda is the Veda of melodies and chants.

• It is an ancient Vedic Sanskrit text, and part of the scriptures of Hinduism.

• One of the four Vedas is a liturgical text which consists of 1,549 verses.

• All but 75 verses have been taken from the Rigveda.

• Three recensions of the Samaveda have survived, and variant manuscripts of the Veda have been found in various parts of

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India.

Q51. Answer: (d) √2 + 1

Shortcut Trick

By observing the equation sin θ + cos θ = √2, we identify that this condition is satisfied when θ = 45°.

Substituting θ = 45°: sin 45° + cos 45° = 1/√2 + 1/√2 = 2/√2 = √2.

Now, calculate the required value: cosec 45° + cot 45°.

cosec 45° = √2 and cot 45° = 1.

Result = √2 + 1.

Therefore The correct answer is √2 + 1.

Alternate Method

Given: sin θ + cos θ = √2

Formula Used: $(\sin\theta + \cos\theta)^2 = \sin^2\theta + \cos^2\theta + 2\sin\theta\cos\theta$; $\sin^2\theta + \cos^2\theta = 1$

=> Square both sides of the given equation: $(\sin\theta + \cos\theta)^2 = (\sqrt{2})^2$

=> $\sin^2\theta + \cos^2\theta + 2\sin\theta\cos\theta = 2$

=> $1 + 2\sin\theta\cos\theta = 2$

=> $2\sin\theta\cos\theta = 1$

=> $\sin 2\theta = 1 \Rightarrow 2\theta = 90° \Rightarrow \theta = 45°$

=> Now, cosec θ + cot θ = cosec 45° + cot 45°

=> cosec 45° = √2 and cot 45° = 1

=> Final value = √2 + 1. This corresponds to Option (4).

Therefore The correct answer is √2 + 1.

Additional Information

Trigonometric Identity

The fundamental square identity is $\sin^2\theta + \cos^2\theta = 1$, which applies to all values of θ.

Reciprocal Relations

cosec θ = 1 / sin θ and cot θ = 1 / tan θ = cos θ / sin θ.

Values for 45°

For θ = 45°, sin θ = 1/√2, cos θ = 1/√2, tan θ = 1, and cot θ = 1.

Complementary Angles

If sin θ = cos α, then θ + α = 90°. In this problem, sin 45° = cos 45°.

Q52. Answer: (c) 96 cm2

Given:

AB = 20 cm

BC = 16 cm

AC = 12 cm

Radius of incircle = 4 cm

Formula used:

Area of triangle = semi–perimeter of triangle × radius of incircle

Calculation:

Area of triangle = [(20 + 16 + 12)/2] × 4

=> 24 × 4

=> 96 cm2

Therefore The area of ΔABC is 96 cm2

Q53. Answer: (c) $(x/2+ y/3)^2$

Calculation:

$9x^2 + 12xy + 4y^2 = (3x + 2y)^2$

Now we can substitute this expression back into the original fraction:

$(9x^2 + 12xy + 4y^2)/36$

$([(3x + 2y)^2])/(6^2)$

$(x/2+ y/3)^2$

Therefore, the simplified expression is $(x/2+ y/3)^2$

Q54. Answer: (a) 8.34 percent

Given:

The marked price of the chair = Cost price + 30% of the cost price

Selling price after discount = Rs. 200

Discount amount = Rs. 40

Formula:

Profit percentage = (Profit / Cost price) * 100

To solve the question, we need to find the cost price, and profit.

Calculation:

The selling price after a discount of Rs. 40 is Rs. 200:

Selling price = Marked price - Discount

MP = 200 + 40

240

According to the question:

CP × 130% = 240

CP = 2400/13 = 184.6

Profit = Selling price - Cost price

Profit = 200 - 184.6

Profit = 15.38

Profit percentage = (15.38/184.62) × 100

Profit percentage = 8.34%

So, the profit percentage is approximately 8.34%.

Q55. Answer: (a) 213.33 percent

Calculation:

Income of company D = 500 + 300 = 800

Income of company E = 1000 + 600 = 1600

Income of company F = 800 + 500 = 1300

Income of company G = 500 + 400 = 900

Income of company H = 600 + 1200 = 1800

Total income of all 5 companies = 800 + 1600 + 1300 + 900 + 1800 = 6400

Total expenditure of all 5 companies = 300 + 600 + 500 + 400 + 1200 = 3000

Percentage of total income to total expenditure = 6400/3000 × 100 = 213.33%

Therefore Option 1 is the correct answer.

Q56. Answer: (d) 378

Calculation:

Total runs = 700

Run scored by L, N and R = 29% + 12% + 13% = 54%

Total runs scored by L, N and R = 54/100 × 700 = 378

Therefore Option 4 is the correct answer.

Q57. Answer: (c) 11

Given:

25 ÷ 10 - (7/4 × 1/3) of 6/5 + 14/3 × 9/10 + (1/5 ÷ 1/25)

Concept used:

Calculation:

=> 25 ÷ 10 - (7/4 × 1/3) of 6/5 + 14/3 × 9/10 + (1/5 ÷ 1/25)

=> 5over 2 - 7/12 × 6/5 + 21/5 + 5

=> 5over 2 - 7/10 + 21/5 + 5

=> (25 + 42)over 10 - 7/10 + 5

=> 60/10 + 5
=> 6 + 5
=> 11
Hence the value is 11.

Q58. Answer: (d) 100 degree

Given:
In triangle XYZ. angle Y is the smallest angle and angle Y = 25 degrees.
The ratio of the angle is 20 : 11 : 5.
Calculation:
Now, the measure of the largest angle of triangle XYZ = 25° × 20/5 = 100°
Therefore The largest angle of triangle XYZ is 100°.

Q59. Answer: (b) 15 cm

Given:
The medians QT and RS intersect at right angles.
QT = 18 cm, RS = 27 cm
Concept used:
The centroid is the intersection point of all three medians.
Centroid divides the median in the ratio 2 : 1
Calculation:
The two medians intersect at G. Hence G is the centroid of the triangle and the centroid divides the median in the ratio 2 : 1
Therefore QG : GT = 2 : 1 => QG = 18 × 2/3 = 12 cm
Also, RG : GS = 2 : 1 => GS = 27 × 1/3 = 9 cm
Therefore In ΔGQS, angle QGS = 90° (Because medians intersect at 90°)
Using Pythagoras theorem,
QG2 + GS2 = QS2
=> 122 + 92 = QS2
=> QS2 = 225
=> QS = √ 225 = 15 cm.
Therefore The length of QS = 15 cm.

Q60. Answer: (c) 60 degree, 30 degree

Given:
cot (P + Q) = 0
tan (P - Q) = 1/√3
Concept:
Cotangent and tangent are reciprocal trigonometric functions and tan(π/3) = √3.
Calculation:
=> cot (P + Q) = 0
=> (P + Q) = 90°.
=> tan (P - Q) = 1/√3
=> (P - Q) = 30°.
Add these two equations to solve for P and subtract to solve for Q:
=> P = (90° + 30°) / 2 = 60°.
=> Q = (90° - 30°) / 2 = 30°.
Therefore, angle P = 60° and angle Q = 30°.

Q61. Answer: (a) Rs. 20,000

Concept Used:
New Value = Original Value × (1 ± Percentage/100)
Calculation:
For the third year, the salary increased by 25%, so the original salary before this increase was:

23,000 ÷ (1 + 25/100) = 23,000 ÷ 1.25 = Rs. 18,400

For the second year, the salary decreased by 20%, so the original salary before this decrease was:

18,400 ÷ (1 - 20/100) = 18,400 ÷ 0.8 = Rs. 23,000

For the first year, the salary increased by 15%, so the original salary before this increase was:

23,000 ÷ (1 + 15/100) = 23,000 ÷ 1.15 = Rs. 20,000

So, Tilak's salary at the beginning of these three years was Rs. 20,000.

Q62. Answer: (a) 0

Given:

$(1-\tan^2 45°)/(1 + \cos^2 90°)$

Formula:

$\tan 45° = 1$

$\cos 90° = 0$

Calculation:

$\Rightarrow (1-\tan^2 45°)/(1+\cos^2 90°)$

$\Rightarrow (1 - 1^2)/(1 + 0^2) = 0/1 = 0.$

Hence, the value is 0.

Q63. Answer: (d) 25 years

Given:

Capital ratio of Nikhil and Neha = 5 : 4

Profit ratio = 6 : 5

Concept:

The formula for profit distribution is (capital × time).

Calculation:

Let the time invested by Nikhil be T, then time invested by Neha is (T+1).

$\Rightarrow 5T/4(T+1) = 6/5$

$\Rightarrow 25T = 24T + 24$

$\Rightarrow$ After solving this equation, T = 24.

Therefore, Neha invested the money for (T + 1) = 24 + 1 = 25 years.

Therefore Option 4 is the correct answer.

Q64. Answer: (b) 8pq

Given:

$(p + 2q)^2 - (p - 2q)^2$

Concept:

The formula $a^2 - b^2 = (a + b)(a - b)$.

Calculation:

$\Rightarrow (p + 2q)2 - (p - 2q)2$

$\Rightarrow p^2 + 4q^2 + 4pq - p2 - 4q2 + 4pq$

$= 8p \times q.$

Hence, the value is 8pq.

Q65. Answer: (a) 10 percent

Given:

60% of articles sold at a 20% loss

40% of articles sold at a 5% profit

Concept:

The formula for overall profit or loss percentage = [(total cost price - total selling price) / total cost price] × 100.

Calculation;

$\Rightarrow$ 20% Loss on 60% of articles = 60 × 0.2 = 12.

$\Rightarrow$ 5% Profit on 40% of articles = 40 × 0.05 = 2.

$\Rightarrow$ Overall loss percentage = 12 - 2 = 10%.

Hence, the overall loss percentage is 10%.

Q66. Answer: (d) -622

Given:

224 of 4 ÷ 7 - 250 × 3

Concept:

Calculation:

=> 224 of 4 ÷ 7 - 250 × 3

=> 224 × 4 ÷ 7 - 750

=> 896 ÷ 7 - 750

=> 128 - 750

=> -622

Hence, the value is -622.

Q67. Answer: (b) Rs. 216

Shortcut Trick

Area of trapezium = 1/2 × (Sum of parallel sides) × Height

Sum of sides = 15 + 9 = 24 cm; Height = 6 cm

Area = 1/2 × 24 × 6 = 72 cm²

Total cost = Area × Rate = 72 × 3 = 216

Therefore The correct answer is Rs. 216.

Alternate Method

Given:

Parallel side 1 (a) = 15 cm

Parallel side 2 (b) = 9 cm

Distance between them (h) = 6 cm

Rate of copper plating = Rs. 3 per cm²

Formula Used:

Area of a trapezium = 1/2 × (a + b) × h

Calculations:

=> Area = 1/2 × (15 + 9) × 6

=> Area = 1/2 × 24 × 6

=> Area = 12 × 6 = 72 cm²

=> Total cost = Area × Rate

=> Total cost = 72 × 3

=> Total cost = Rs. 216

Therefore The correct answer is Rs. 216.

Additional Information

Area of a Trapezium

The area is the product of the average of the parallel sides and the distance between them: A = [(a + b)/2] × h.

Median of a Trapezium

The segment connecting the midpoints of the non-parallel sides is called the median, and its length is (a + b) / 2.

Costing Problems

Total cost for surface work is always the calculated surface area multiplied by the rate per unit area.

Q68. Answer: (a) 5/3 km

Given:

Difference in speed = 40 km/hour

Sum of speed = 60 km/hour

Concept:

Time = Distance / Speed, and in this case, time difference is given.

Calculation:

Let Farhan's speed = x, then

Aman's speed = y.

According to question,

x + y = 60 .....(i)

x - y = 40 .....(ii)

After solving we get,

x = 50 km/h and y = 10 km/h

Using any of the speeds and time difference to find the distance:

=> D/10 - D/50 = 8/60

=> D[5 - 1]/50 = 2/15

=> 4D/50 = 2/15

=> D = 2/15 × 50/4

=> D = 5/3 km

Therefore, the distance they both should cover is 5/3 km.

Q69. Answer: (b) 160

Calculation:

Total runs = 500

Runs scored by R = 32% = 32/100 × 500

=> 160

Therefore Option 1 is the correct answer.

Q70. Answer: (b) Only I

Given:

A can complete 3/8 work in 36 days

B can complete 1/2 work in 27 days

Concept: Work efficiency is inversely proportional to time taken.

Calculation:

=> A's full work will take (36 / 3) × 8 = 96 days.

=> B's full work will take (27 / 1) × 2 = 54 days.

I. A is less efficient than B - Correct, since A takes more time than B.

II. A and B working together can complete 11/15 work in 36 days - Incorrect, as working together they can complete (1/96 + 1/54) × 36 = ~0.73 of the work in 36 days.

Hence, only statement I is correct.

Q71. Answer: (b) 300

Calculation:

The average of salary of employees C, D and E = (300 + 200 + 400)/3

900/3 = 300

Therefore Option 2 is the correct answer.

Q72. Answer: (b) 3/xyz

Given:

x + y + z = 0

Concept used:

If (a + b + c) = 0 then $a^3 + b^3 + c^3 = 3abc$

Calculation:

According to the concept,

$x/((yz)^2)+ y/((xz)^2) + z/((xy)^2)$

$=> (x\times x^2) + (y\times y^2) + (z\times z^2)/((xyz)^2)$

$=> (x^3 + y^3 + z^3)/((xyz)^2)$

$=> 3xyz/((xyz)^2)$ (Because x + y + z = 0, so $x^3 + y^3 + z^3 = 3xyz$)

=> 3/xyz

Therefore The value of $x/((yz)^2)+ y/((xz)^2) + z/((xy)^2)$ is 3/xyz.

Q73. Answer: (d) Both I and II

Calculation:

The formula for simple interest is:

I = PRT/100,

where:

I = interest earned,

P = principal amount (initial investment),

R = annual interest rate (in percentage),

T = time (in years).

If a sum of money becomes three times of itself at a rate of 10 percent per annum, it means that twice the initial sum was earned as interest (because the initial sum plus twice the sum gives three times the sum). So:

2P = PRT/100

Substituting the given R = 10, we get:

2P = P × 10 × T/100

Solving for T:

T = 2 × 100/10 = 20 years.

Now, for the two statements:

I. For the money to become 5 times of itself at the rate of 20 percent per annum in the same time period (20 years), the interest earned must be four times the principal. So:

4P = P × 20 ×T/100 = P× 20 × 20/100 = 4P.

So, Statement I is correct.

II. For the money to become 7 times of itself at the rate of 30 percent per annum in the same time period (20 years), the interest earned must be six times the principal. So:

6P = P × 30 × T/100 = P × 30 × 20/100 = 6P.

So, Statement II is also correct.

Thus, both statements I and II are correct.

Q74. Answer: (a) 2 : 3

Given:

If in triangle ABC, D is a point on the side BC such that the line joining AD bisects the angle A.

The length of BD and BC are 4 cm and 10 cm respectively.

Concept used:

The Angle Bisector Theorem states that in a triangle, the angle bisector of a vertex divides the opposite side into segments that are proportional to the lengths of the other two sides.

Calculation:

DC = BC - BD = 10 - 4 = 6 cm

According to the concept,

Since AD is the angle bisector of angle BAC, AB : AC = BD : DC

So, AB : AC

=> 4 : 6 = 2 : 3

Therefore The ratio of the lengths of AB and AC is 2 : 3.

Q75. Answer: (b) 90

Given:

Average of 5 numbers = 60

Sum of remaining two numbers = 120

Concept:

Average = Total sum / Number of elements.

Calculation:

Let's call the first number x. Then we know:

=> The second number = x/2, the third number = 3x/2, and the remaining two numbers = 120.

=> The sum of all 5 numbers = 60 × 5 = 300.

=> x + x/2 + 3x/2 + 120 = 300

=> 3x = 180

=> x = 60

We find that x = 60.

The third number is therefore 3x/2 = 3 × 60/2 = 90

Therefore, the value of the 3rd number is 90.

Q76. Answer: (a) Please do it

The correct answer is 'Option 1'.

Key Points

• The most appropriate meaning of the idiom "Be my guest" is "Please do it".

• "Be my guest" is a polite way of giving someone permission to do something, or to invite them to do something as if they were a welcome guest.

• The idiom conveys a sense of generous hospitality.

Therefore, the correct answer is: 'Please do it'.

Q77. Answer: (d) hardly picture in Rome I was unable

The correct answer is 'Option 4'.

Key Points

• The segment in the sentence that contains a grammatical error is "hardly picture in Rome I was unable".

• The error lies in the missing article before "picture".

• In English, countable singular nouns usually need an article or other kind of determiner like 'a', 'an', or 'the'.

• Article 'A' will be used before word 'Picture' as it is starting with a consonant.

Therefore, The correct sentence is: "And, indeed, there was hardly a picture in Rome I was unable to reattribute to its rightful owner."

Q78. Answer: (b) She said that she would be available the next day.

The correct answer is 'She said that she would be available the next day'.

Key Points

• The correct indirect form of the sentence "She said, 'I will be available tomorrow.'" is "She said that she would be available the next day."

• When changing direct speech into indirect speech, the verb tense typically shifts back (this is known as "backshifting").

• In this case, "will" becomes "would".

• Moreover, words indicating nearness in time or place in direct speech are generally changed into words showing distance in indirect speech.

• Here, "tomorrow" changes to "the next day".

Therefore, the correct sentence is: 'She said that she would be available the next day.'

Additional Information

• Option 1, "She said that she would be available tomorrow," is incorrect because "tomorrow" should be changed to "the next day" in indirect speech.

• Option 3, "She said that she must be available the next day," is incorrect because "will" should not change to "must" in indirect speech. "Must" changes the meaning, implying a necessity or obligation that wasn't present in the original sentence.

• Option 4, "She said that she will be available the next day," is incorrect because the verb "will" should be backshifted to "would" in indirect speech.

Q79. Answer: (c) Homogeneous

The solution is in Hindi. Read it online.

Q80. Answer: (c) False

The solution is in Hindi. Read it online.

Q81. Answer: (d) MALODOROUS

The solution is in Hindi. Read it online.

Q82. Answer: (a) Senile

The solution is in Hindi. Read it online.

Q83. Answer: (a) Combine

The solution is in Hindi. Read it online.

Q84. Answer: (d) TREBBLE

The solution is in Hindi. Read it online.

Q85. Answer: (a) Precarious

The solution is in Hindi. Read it online.

Q86. Answer: (c) PRQS

The correct answer is 'Option 3' i.e. 'PRQS'.

Key Points

• The correct order for the sentence is PRQS. Here's why:

• "Our study goes" is the starting clause and should be followed by something that elaborates on what the study aims to do or achieve.

• P. "beyond LDL cholesterol levels to get" - This segment indicates that the study is aiming to achieve something more than just understanding LDL cholesterol levels.

• R. "a complete picture of all of the lipoproteins" - This clause elaborates further on what the study is trying to achieve, making it clear that it's not just about LDL cholesterol, but a complete understanding of all lipoproteins.

• Q. "and the impact of eating walnuts daily" - This adds another dimension to the study. After getting a complete picture of all the lipoproteins, the study is also considering the impact of a specific diet factor - eating walnuts daily.

• S. "on their potential to improve cardiovascular risk" - Finally, this clause ties everything together by explaining the ultimate aim of the study, which is to understand how all of these factors could potentially improve cardiovascular risk.

Therefore, the rearranged sentence is: "Our study goes beyond LDL cholesterol levels to get a complete picture of all of the lipoproteins and the impact of eating walnuts daily on their potential to improve cardiovascular risk." Hence, the correct answer is PRQS.

Q87. Answer: (a) To buy something that is of much less value.

The solution is in Hindi. Read it online.

Q88. Answer: (d) He spent many an hour playing the chess across the

The correct answer is 'Option 4'.

Key Points

• The correct answer is "He spent many an hour playing the chess across the". Here's why:

• In the phrase "many an hour", "an" is used before "hour", which is a singular noun.

• "Many a/an" is an old-fashioned phrase used for emphasizing that something happens or is true many times or in many cases.

• When "many a" or "many an" is used, it is followed by a singular noun, not a plural noun. So, "many an hours" is incorrect because "hours" is plural. It should be "many an hour".

Therefore, the correct sentence is: "He spent many an hour playing the chess across the city".

Q89. Answer: (c) Hydrate

The solution is in Hindi. Read it online.

Q90. Answer: (b) one of the greatest of there kings.

The correct answer is 'Option 2'.

Key Points

• The part of the sentence that contains a grammatical error is "one of the greatest of there kings".

• The error is in the use of the word "there". The correct word should be "their", not "there".

• "There" is an adverb indicating a place or position, while "their" is a possessive adjective indicating possession or ownership.

• In this sentence, we are referring to the kings of the Spartans, so we should use "their" to show possession.

Therefore, the correct sentence should be "Such was the education / of the Spartans with regard to / one of the greatest of their kings."

Q91. Answer: (a) Paranoid

The solution is in Hindi. Read it online.

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Q92. Answer: (a) soaked from walking

The correct answer is 'Option 1'.

Key Points

• The correct improvement for the underlined part of the sentence "soaked from walk" is "soaked from walking".

• In this context, the gerund (verb+ing) "walking" is used because it acts as a noun that refers to the activity.

• The phrase "from walking" indicates the reason why his shoes were soaked.

Therefore, the correct sentence is: "His shoes were soaked from walking through the dew."

Q93. Answer: (a) The cake had been eaten by us.

The correct answer is 'Option 1'.

Key Points

• When we convert a sentence from active to passive voice, the object of the active sentence becomes the subject of the passive sentence.

• The passive form of "had eaten" is "had been eaten".

• Thus, the active sentence "We had eaten the cake" changes to "The cake had been eaten by us" in the passive voice.

Therefore, the correct answer is: 'The cake had been eaten by us.'

Additional Information

• Let's look at the other options:

• "The cake will be eaten by us." - This is the future simple passive form, not the past perfect (which is the tense of the original sentence).

• "The cake is eaten by us." - This is the present simple passive form, not the past perfect.

• "The cake was eaten by us." - This is the past simple passive form, not the past perfect.

Q94. Answer: (c) CDBA

The correct answer is 'Option 3'.

Key Points

• The correct sequence to form a meaningful and grammatically correct sentence is CDBA.

• Let's break it down:

• C. "though I heard of him from time to time. I learned" - This segment forms the continuation of the first part of the sentence ("I didn't speak to the sage again for many years") as it explains what happened during the years of not speaking to the sage. It also creates a logical link to the next segment (D) by mentioning that the speaker learned something.

• D. "his name: Vyasa the Compendious," - This segment provides the information the speaker learned, i.e., the sage's name. It also logically leads to the next segment (B) which adds more information about Vyasa.

• B. "because of the many hefty books, he'd written. Vyasa the" - This segment adds additional information about Vyasa, and then ends with a partial phrase ("Vyasa the") that logically leads to the final segment (A), which completes this description.

• A. "seer, born on a dark island of a union between an ascetic and a fisher princess" - This segment finalizes the description of Vyasa, completing the sentence in a coherent and meaningful way.

Therefore, the correct sentence is: "I didn't speak to the sage again for many years, though I heard of him from time to time. I learned his name: Vyasa the Compendious, because of the many hefty books, he'd written. Vyasa the seer, born on a dark island of a union between an ascetic and a fisher princess." So, the correct answer is CDBA.

Q95. Answer: (d) Demagogue

The solution is in Hindi. Read it online.

Q96. Answer: (d) invisible

The solution is in Hindi. Read it online.

Q97. Answer: (a) would have

The correct answer is 'Option 1' i.e. "would have".

Key Points

• In the context of the sentence, the narrator is expressing a hypothetical situation in the past: having one of the women tell her own story.

• The phrase "would have" is used to talk about a situation that did not happen in the past, but the speaker is imagining what the outcome would have been if it had happened.

Therefore, the correct sentence is: ' I would uncover the story that lay invisible between the lines of the men's exploits. Better still, I would have one of them tell it herself, with all her joys and doubts, her struggles and her triumphs, her heartbreaks, her

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achievements, the unique female way (3) ____ which she sees her world and her place in it. And who could be (4) __ for this than Panchaali? It is her life, her voice, her questions, and her vision that I invite you (5) ____ 'The Palace of Illusions'.

Additional Information

• Let's discuss the other options:

• "Could"- This modal verb is used to express ability or possibility. It doesn't fit here because the sentence is not about possibility, but about a hypothetical past situation.

• "Will"- This modal verb is used to talk about future actions or events. Since we're talking about a hypothetical past situation, this doesn't fit.

• "Will have" - This is used to talk about something that will have been completed at some point in the future. Again, it doesn't fit here because we're not talking about the future.

Q98. Answer: (d) in

The correct answer is 'Option 4' i.e. "in".

Key Points

• The phrase "the unique female way in which she sees her world" makes the most sense in this context.

• The preposition "in" is used here to describe the manner or method of how she perceives her world.

The correct sentence is: 'I would uncover the story that lay invisible between the lines of the men's exploits. Better still, I would have one of them tell it herself, with all her joys and doubts, her struggles and her triumphs, her heartbreaks, her achievements, the unique female way in which she sees her world and her place in it. And who could be (4) ____ for this than Panchaali? It is her life, her voice, her questions, and her vision that I invite you (5) ____ 'The Palace of Illusions'.

Additional Information

• Let's break down the other options:

• "Though" - This word is a conjunction used to introduce a contrast or contradiction. It does not fit in this sentence as there is no contrast being made.

• "Through" - This preposition is used to describe movement within something, not a method or manner.

• "By" - This preposition can be used to denote the means or manner of an action, but in this case it does not fit as naturally as "in" to describe the way she sees her world.

Q99. Answer: (a) better suited

The correct answer is 'Option 1' i.e. "better suited".

Key Points

• In the given sentence, we are trying to say that no one could be more suitable or appropriate than Panchaali for this task or situation.

• Therefore, the phrase "better suited" fits best in this context.

Therefore, the correct sentence is: 'I would uncover the story that lay invisible between the lines of the men's exploits. Better still, I would have one of them tell it herself, with all her joys and doubts, her struggles and her triumphs, her heartbreaks, her achievements, the unique female way in which she sees her world and her place in it. And who could be better suited for this than Panchaali? It is her life, her voice, her questions, and her vision that I invite you (5) _____ 'The Palace of Illusions'.

Additional Information

• Let's break down the other options:

• "Better performed" - This phrase would suggest that the action or task has already been carried out, which is not the case here.

• "Better meant" - This phrase does not make much sense in this context as it implies a better understanding or interpretation, which is not what is being discussed here.

• "Best matched" - This phrase would suggest that Panchaali is the best match for something or someone, which is not the idea being conveyed here.

Q100. Answer: (a) into

The correct answer is 'Option 1' i.e. "into".

Key Points

• In the context of the sentence, the author is inviting the reader to step "into" 'The Palace of Illusions'.

• This implies entering or immersing oneself in the narrative or world of 'The Palace of Illusions'.

• Hence, "into" fits best here.

Therefore, the correct sentence is: 'I would uncover the story that lay invisible between the lines of the men's exploits. Better still, I would have one of them tell it herself, with all her joys and doubts, her struggles and her triumphs, her heartbreaks, her achievements, the unique female way in which she sees her world and her place in it. And who could be better suited for this than Panchaali? It is her life, her voice, her questions, and her vision that I invite you into 'The Palace of Illusions'.

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Additional Information

• Let's break down the other options:

• "Of" - This preposition is generally used to indicate the relationship between part and whole, origin, and so on. It doesn't fit the context here.

• "Upon" - This preposition usually means 'on top of' or 'in the direction of', and is not used in the sense of entering or immersing oneself into something.

• "On to" - This is often used in the context of movement or progress onto a different position or stage, not entering or immersing oneself into something.

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