SSC CHSL Previous Paper 20 (Held On: 15 Oct 2020 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Directions: Select the word which means the same as the group of words given.

A situation in which many people leave a place at the same time

(a) Mitigation
(b) Navigation
(c) Exodus
(d) Immigration

Q2. Directions: Select the most appropriate segment to substitute the underlined segment of the given sentence.

In the jungle, I saw a group of lions.

(a) a school of lions
(b) a herd of lions
(c) a flock of lions
(d) a pride of lions

Q3. Directions: Select the most appropriate synonym of the given word.

INTEGRATE

(a) Divide
(b) Increase
(c) Disappear
(d) Unite

Q4. Directions: In the given sentence identify the segment which contains the grammatical error.

The Commonwealth Games had a grand opening ceremony with spectacular cultural performings.

(a) cultural performings
(b) a grand opening
(c) with spectacular
(d) The Commonwealth Games had

Directions

Comprehension: 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 blank.

Increasing levels of air pollution are (1)____ for a higher incidence of respiratory diseases and other illnesses. Various studies carried out in Delhi reflect the correlation between air pollution and its (2)__ impacts. To tackle the problem of air pollution, a number of measures have been taken in the past, such as switching to (3)__ fuels, tightening vehicular emission limits, phasing out of old vehicles and maintenance of in-use vehicles, closing or relocating (4)__ industries, plantation activities, etc. However, a lot more still needs to be done if the capital desires to (5)____ clean air.

Q5. Select the most appropriate option for blank number 1.

(a) responding
(b) responsive
(c) responsibility
(d) responsible

Q6. Select the most appropriate option for blank number 2.

(a) illness
(b) rough
(c) health
(d) long

Q7. Select the most appropriate option for blank number 3.

(a) immaculate
(b) righteous
(c) cleaner
(d) guiltless

Q8. Select the most appropriate option for blank number 4.

(a) pollute
(b) pollution
(c) polluted
(d) polluting

Q9. Select the most appropriate option for blank number 5.

(a) breathe
(b) breathed
(c) breather
(d) breathes

Q10. Select the most appropriate synonym of the given word.

TOLERANCE

(a) Impatience
(b) Oppression
(c) Endurance
(d) Aggression

Q11. Directions: Given below are four jumbled sentences. Select the option that gives their correct order.

A. In India, forests are huge catchment areas for rivers and streams as they help in storing water.
B. If these forests continue to be felled indiscriminately, rivers and streams will dry up leading to drought.
C. Due to this, many states are facing a shortage of water in the summer months.
D. Unfortunately, these dense forest areas are disappearing.

(a) CADB
(b) ABCD
(c) ADCB
(d) DCBA

Q12. Select the most appropriate ANTONYM of the given word.

DISABLE

(a) Permit
(b) Disapprove
(c) Refuse
(d) Disallow

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Q13. Directions: Select the word which means the same as the group of words given.

To laugh at something in a cruel way

(a) Deprive
(b) Deride
(c) Defy
(d) Decide

Q14. Directions: In the given sentence identify the segment which contains the grammatical error.

My domestic help was taking ill the day I had a party at my house.

(a) was taking ill
(b) at my house
(c) My domestic help
(d) the day I had a party

Q15. Directions: Select the correct passive form of the given sentence.

I use jaggery to sweeten my tea in winters.

(a) I have been using jaggery to sweeten my tea in winters
(b) Jaggery is being used by me to sweeten my tea in winters.
(c) Jaggery is used by me to sweeten my tea in winters.
(d) In winters jaggery was used by me to sweeten my tea.

Q16. Directions: Select the most appropriate meaning of the given idiom.

Not mince (your) words

(a) Not to have clarity
(b) Eat a lot clumsily
(c) State your opinion clearly
(d) Say words that are confusing

Q17. Directions: Select the wrongly spelt word.

(a) Promote
(b) Attacked
(c) Provision
(d) Clearify

Q18. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'

Why did the teacher ask all four of you to stay back in class in the break?

(a) asked of four of you
(b) ask you all four
(c) No improvement
(d) asking four of you

Q19. Directions: Given below are four jumbled sentences. Select the option that gives their correct order.

A. However, in today's ever-changing world, power looms are replacing the traditional handloom textiles.

B. Handloom refers to the use of wooden frames of various kinds by skilled artisans to weave fabric from natural fibres.

C. One of the most prominent among Indian handlooms is Banarasi textiles.

D. Banarasi textiles are made with gleaming gold threads and weaving techniques as old as time.

(a) BCDA
(b) DBCA
(c) BDAC
(d) CDAB

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Q20. Directions: Select the most appropriate ANTONYM of the given word.

INCITE

(a) Provoke
(b) Appeal
(c) Restrain
(d) Instigate

Q21. Directions: Select the most appropriate words to fill in the blank in the given sentence.

I dislike people with _____ who say something and do something else.

(a) many roles
(b) double standards
(c) strange achievements
(d) multiple relations

Q22. Directions: Select the most appropriate meaning of the given idiom.

Rub the wrong way

(a) Rub incorrectly
(b) Please someone
(c) Annoy someone
(d) Rub well without oil

Q23. Directions: Select the wrongly spelt word.

(a) Electorate
(b) Acrimony
(c) Interfear
(d) Selection

Q24. Directions: Select the most appropriate word to fill in the blank in the given sentence.

The _____ entered the house in disguise saying his uncle lived there and robbed the place.

(a) technical
(b) technician
(c) technique
(d) technicality

Q25. Directions: Select the correct indirect form of the given sentence.

Roshan said to me, "Sandeep made a new year greeting card for his teacher".

(a) Sandeep made a new year greeting card for his teacher said Roshan.
(b) Roshan told me that Sandeep had made a new year greeting card for his teacher.
(c) Roshan said Sandeep had made a new year greeting card for his teacher.
(d) Roshan was saying that Sandeep made a new year greeting card for his teacher.

GENERAL INTELLIGENCE

Q26. Three persons A, B and C had Rs. 360 altogether. A transferred half of the amount he had to B and C transferred half of the amount he had to A. After the transfer, all of them have equal amounts. What is the total amount B had before the transfer?

(a) Rs. 0
(b) Rs. 180
(c) Rs. 120
(d) Rs. 240

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Q27. In a certain code language, SYNC is coded as 4417 and MINT is coded as 2234. How will NOSE be coded as in that language?

(a) 2924
(b) 3419
(c) 1758
(d) 5729

Q28. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

(a) BDFHJ
(b) ACEGI
(c) DFHJL
(d) CFLXV

Q29. In a certain code language, BOARD is written as CMDNI. How will WHITE be written as in that language?

(a) VFJQB
(b) XFLPJ
(c) VJFPZ
(d) XJMQZ

Q30. Select the combination of letters that when sequentially placed in the blank of the given letter series will complete the series.

ab_a_ _ba_ _a_ _ac

(a) cbaabcb
(b) acaacba
(c) cabbacb
(d) abccaba

Q31. 'Algebra' is related to 'Maths' in the same way as 'Optics' is related to '_____'.

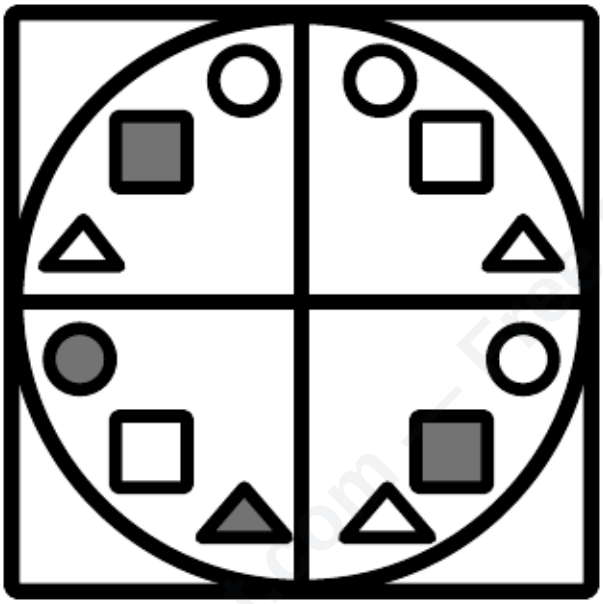
(a) Electronics
(b) Geography
(c) Physics
(d) Biology

Q32. Which of the following sequential order of operations will replace the '*' signs and make the equation 12 * 3 * 6 * 8 * 4 = - 4 correct?

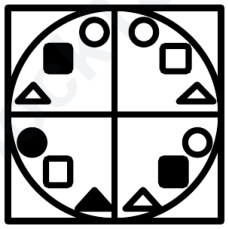
(a) ×, -, +, ÷
(b) ÷, ×, +, -
(c) -, ×, +, ÷
(d) +, ÷, ×, -

Q33. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

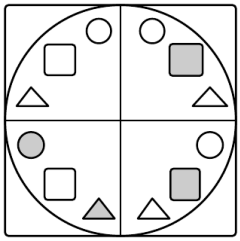
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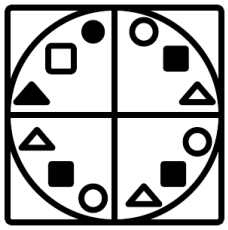
(a)



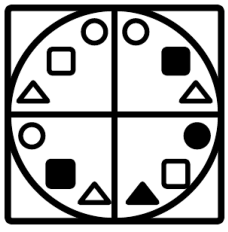
(b)



(c)



(d)



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Q34. Four number-pairs have been given, out of which three are alike in some manner and one is different, select the number-pair that is different from the rest.

(a) 576: 3375
(b) 25: 216
(c) 16: 125
(d) 289: 5832

Q35. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

8 : 36

(a) 12 : 78
(b) 4 : 8
(c) 6 : 24
(d) 10 : 43

Q36. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follows from the statements.

Statements:

1. Some students are listeners.
2. Some listeners are observers.
3. Many students are not observers.

Conclusions:

I. Some students are observers.
II. Some observers are not students.
III. Some observers are listeners.

(a) Only conclusion I follows.
(b) Only conclusion I and III follows.
(c) Only conclusion II follows.
(d) Only conclusion III follows.

Q37. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to be first letter-cluster.

DASH: FYUF:: BOARD:?

(a) ZPCLZ
(b) DQYBF
(c) DMCPF
(d) ZQYTB

Q38. Select the number that can replace the question mark (?) in the following series.

589, 572, 557, 544, 533,?

(a) 523
(b) 524
(c) 522
(d) 525

Q39. Arrange the following words in a logical and meaningful order.

I. Millimeter
II. Decameter
III. Decimeter
IV. Centimeter

(a) III, II, I, IV
(b) I, IV, III, II
(c) II, III, I, IV

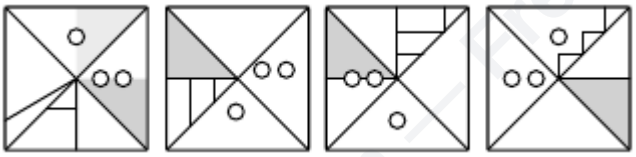
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(d) I, III, IV, II

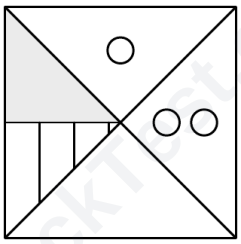
Q40. What is the relation of Ramesh with his mother's son-in-law's wife's sister?

(a) Brother
(b) Husband
(c) Father
(d) Father-in-law

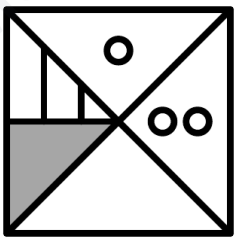
Q41. Select the figure that will come next in the following figure series.



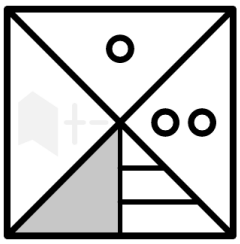
(a)



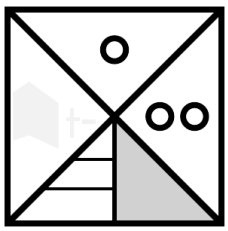
(b)



(c)



(d)



Q42. Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different from the rest.

(a) 21
(b) 735
(c) 621
(d) 853

Q43. Select the number that can replace the question mark (?) in the following series.

5, 9, 10, 28, 17, 65, ?

(a) 32
(b) 26
(c) 78
(d) 93

Q44. Select the option in which the words share the same relationship as that shared by the given pair of words.

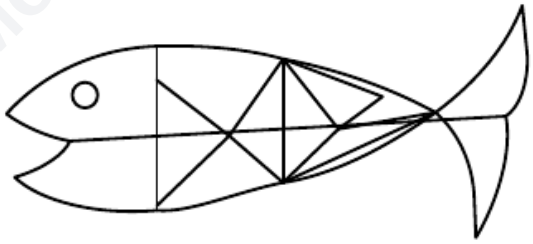
Fish: Pisciculture

(a) Earthworm: Horticulture
(b) Silkworm: Sericulture
(c) Goat: Apiculture
(d) Honeybee: Citriculture

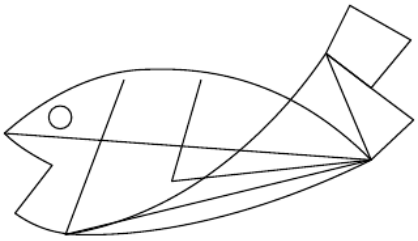
Q45. Select the option in which the given figure is embedded.



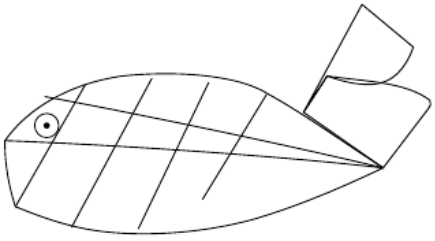
(a)



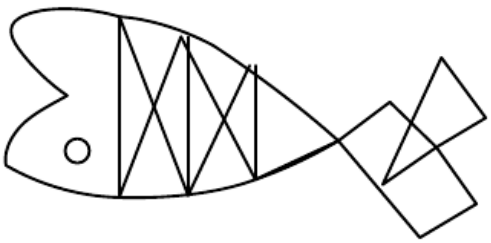
(b)



(c)



(d)

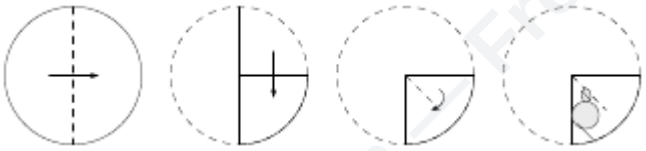


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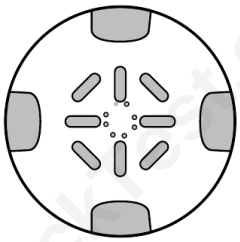
Q46. If 'DESIGN' is coded as 'OHJTFE' in a code language, then, how will 'STRONG' be coded as in the same code language?

(a) HOPSUT
(b) HOPSVU
(c) DOPSKJ
(d) TUSPOH

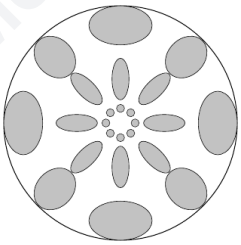
Q47. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



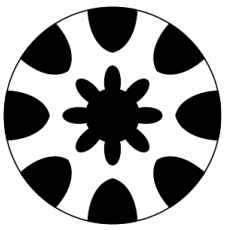
(a)



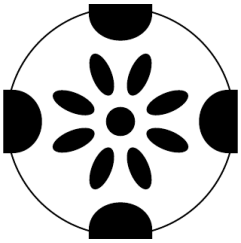
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(c)



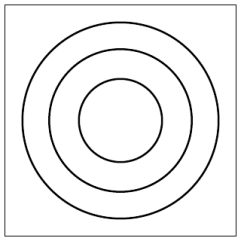
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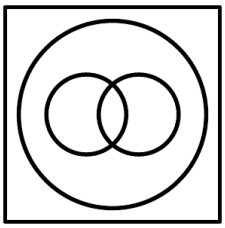
Q48. Select the Venn diagram that best illustrates the relationship between the following:
Omnivore, Bear, Cattle

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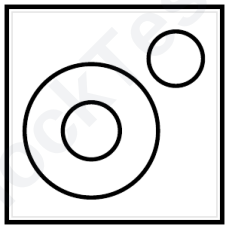
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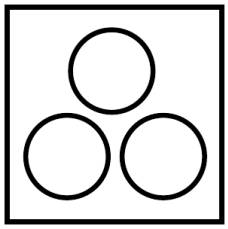
(b)



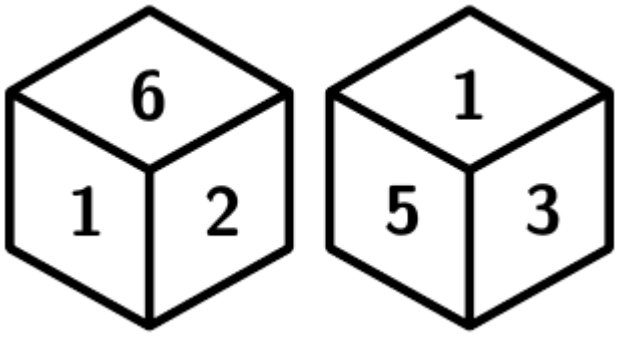
(c)



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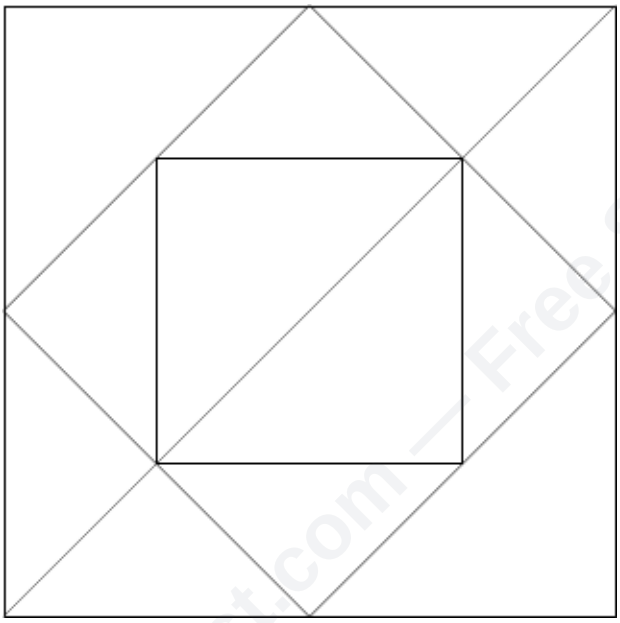


Q49. Two different positions of the same dice are shown. Assuming that the sum of opposite faces is an odd number. Select the number that will be on the face opposite to the one having the number '2'.



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

Q50. How many triangles are present in the following figure?



(a) 15
(b) 14
(c) 18
(d) 16

QUANTITATIVE APTITUDE

Q51. If sinx = 2/3, then find the value of cos3x.

(a) -0.5797
(b) 0.5678
(c) 0.6735
(d) -0.8765

Q52. In how much time will a sum of Rs. 24 become Rs. 56 at 16% simple interest per annum?

(a) 6 years 11 months
(b) 8 years 4 months
(c) 7 years 8 months
(d) 6 years 5 months

Q53. In a grocery store, an item with an MRP of Rs 1,000 is on a discount counter with a special prices of Rs 979. What is the percentage of discount given for that item?

(a) 2.1%
(b) 0.9%
(c) 1.2%
(d) 1.1%

Q54. A student multiplied a number with 3/4 instead of 4/3. What is the error percentage?

(a) 67.45%
(b) 43.75%
(c) 39.34%
(d) 59.67%

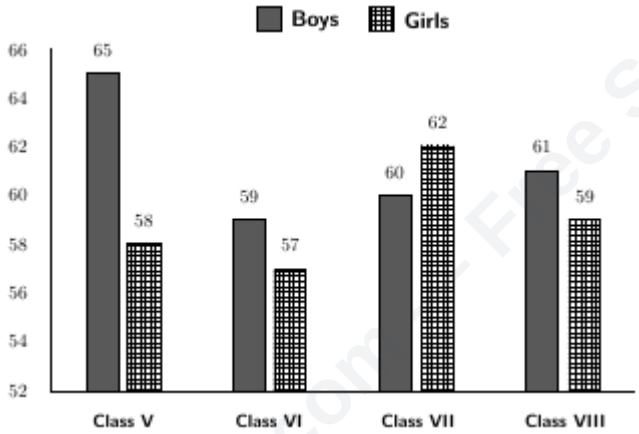
Q55. The difference between two number is 3 and the difference between their cubes is 999. Find the difference between their squares.

(a) 63
(b) 36
(c) 81

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(d) 18

Q56. The following graph shows the number of boys and girls in class V, class VI, class VII and Class VIII. Study the graph and answer the question.



The total number of girls is how much per cent less than total number of boys?

(Correct to two decimal places)

(a) 5.67%
(b) 6.12%
(c) 3.67%
(d) 4.75%

Q57. A can do a work in 12 days and B can do the same work in 16 days. If they work on it together for 4 days. Then the fraction of the work that is left is:

(a) 7/8
(b) 9/16
(c) 3/5
(d) 5/12

Q58. If x = 2 + √3, then find the value of x^4 – 8x³+ 16x²

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

Q59. A car is running at a speed of 64 km/h to cover a certain distance in 40 min. At what speed should the car run to reduce the time of the journey to 30 min?

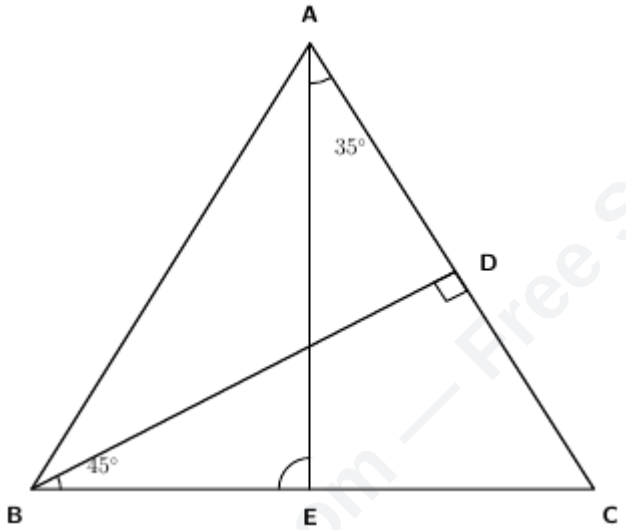
(a) 84.78 km/h
(b) 74.65 km/h
(c) 54 km/h
(d) 85.33 km/h

Q60. If a saree is sold for Rs. 3060, the seller will face 15% loss, at what price should he sell the saree to gain a 20% profit?

(a) Rs. 4320
(b) Rs. 3,600
(c) Rs. 4,650
(d) Rs. 3,440

Q61. In the given figure BD perpendicular to AC then what be the measure of angle AEB?

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(a) 60°
(b) 80°
(c) 45°
(d) 100°

Q62. Find the value of $\sin^2 35° + \sin^2 55°$
(a) -1
(b) 1/2
(c) 0
(d) 1

Q63. Find the positive number which when decreased by 20 is equal to 2925 times the reciprocal of the number.
(a) 35
(b) 65
(c) 55
(d) 45

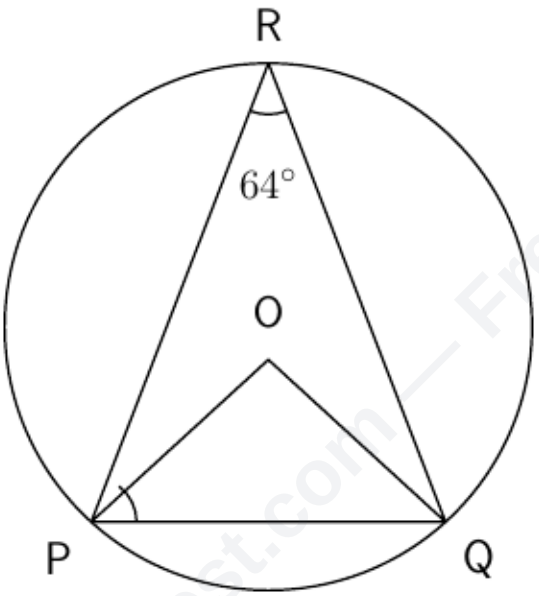
Q64. The average of sales of furniture in the years 2015, 2016, 2017, 2018 is Rs. 16300 and that for years 2016, 2017, 2018, 2019 is Rs. 18450. If the sales in 2019 are 9200, then what are the sales in 2015?
(a) 768
(b) 560
(c) 600
(d) 865

Q65. In a bag, white marbles and red marbles are in the ratio of 3 : 5, If the number of red marbles is 150, then how many white marbles are there?
(a) 30
(b) 90
(c) 120
(d) 60

Q66. The length of a rectangle is four times of its breadth, If the area of the rectangle is 1764 cm^2, then what is the length of the rectangle?
(a) 21
(b) 84
(c) 44
(d) 56

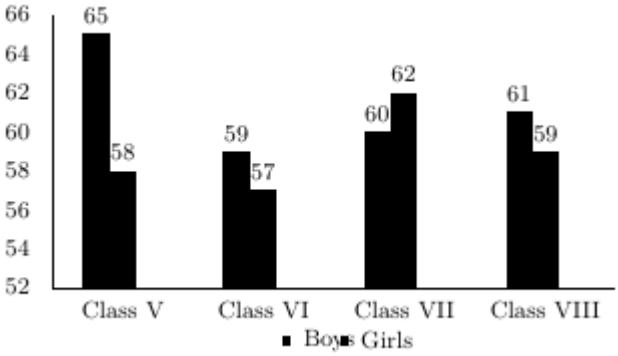
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Q67. In the given figure O is the centre of the circle. If angle PRQ = 64°, then what is the measure of angle OPQ?



(a) 60°
(b) 26°
(c) 32°
(d) 64°

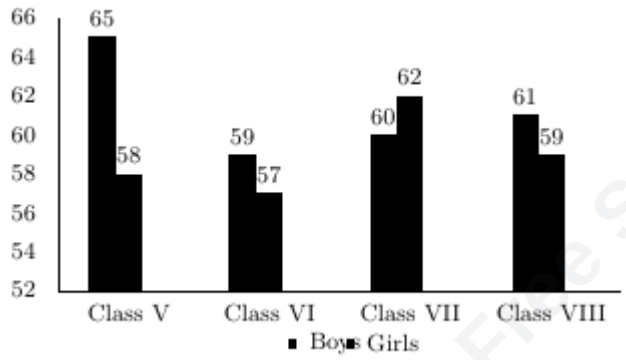
Q68. The following graph shows the number of boys and girls in class V, class VI, class VII and class VIII. Study the graph and answer the question.



Which class has the maximum number of student?

(a) Class V
(b) Class VIII
(c) Class VII
(d) Class VI

Q69. The following graph shows the number of boys and girls in class V, class VI, class VII and class VIII. Study the graph and answer the question.



In which class, the percentage increase in the number of boys as compared to its previous class is least?

(a) Class V
(b) Class VIII
(c) Class VI
(d) Class VII

Q70. If $\tan\theta + \cot\theta = 6$, then find the value of $\tan^2\theta + \cot^2\theta$.

(a) 36
(b) 24
(c) 26
(d) 34

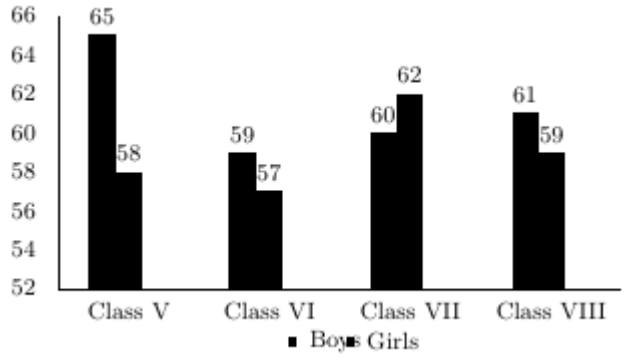
Q71. What is the least 5-digit number that is divisible 91?

(a) 10010
(b) 10192
(c) 10283
(d) 10101

Q72. Find the equation of a circle whose diameter has endpoints (4, 3) and (-2, 1).

(a) $x^2 + y^2 - 2x + 4y = 15$
(b) $x^2 + y^2 - 6x + 2y = 3$
(c) $x^2 + y^2 - 2x - 4y = 5$
(d) $x^2 + y^2 - 2x - 4y = 3$

Q73. The following graph shows the number of boys and girls in class V, class VI, class VII and class VIII. Study the graph and answer the question.



What is the average number of girls in all the classes?

(a) 59
(b) 60
(c) 57
(d) 58

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Q74. The sum of two numbers is 47 and their product is 550. Find the sum of their squares.

(a) 986
(b) 876
(c) 1109
(d) 1209

Q75. The angles of a triangle are in the ratio 3 : 4 : 5. The triangle is:

(a) acute angled triangle
(b) isosceles angled triangle
(c) obtuse angled triangle
(d) right angled triangle

GENERAL AWARENESS

Q76. Which of the following consists of an electronic writing area and a special ‘pen’ that works with it?

(a) Abacus
(b) Graphics Tablet
(c) Plotters
(d) Trackball

Q77. As of January 2020, who among the following has the distinction of having the highest career batting average in Twenty20 Internationals?

(a) Brendon McCullum
(b) Rohit Sharma
(c) Chris Gayle
(d) Virat Kohli

Q78. What is the traditional bamboo dance of Mizoram called?

(a) Thang ta
(b) Maanch
(c) Cheraw dance
(d) Yak Chaam

Q79. The centre of a cyclone is a calm area. It is called the _____ of the storm.

(a) arm
(b) heart
(c) eye
(d) head

Q80. Reserve Bank of India, which acts as a banker to the Central Government, was established on:

(a) 1^(st)April 1945
(b) 1^(st) April 1948
(c) 1^(st) April 1935
(d) 1^(st) April 1950

Q81. Which of the following cities is home to one of the famous Swaminarayan Akshardham temples in India?

(a) New Delhi
(b) Mysore
(c) Madurai
(d) Vadodara

Q82. In terms of area, which is the smallest Union Territory of India?

(a) Daman and Diu
(b) Ladakh
(c) Lakshadweep

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(d) Jammu and Kashmir

Q83. How many women candidates were elected to the 17^(th) Lok Sabha?

(a) 78
(b) 72
(c) 70
(d) 76

Q84. In which year did the Dalai Lama cross over into India and take asylum?

(a) 1957
(b) 1959
(c) 1962
(d) 1952

Q85. India is located to the North of the _____.

(a) Tropic of Capricorn
(b) Prime Meridian
(c) Equator
(d) Tropic of Cancer

Q86. Which female Indian boxer won silver in the AIBA Women's World Boxing Championships in October 2019 in the light flyweight category (48 kg)?

(a) Manju Rani
(b) Jamuna Boro
(c) Lovlina Borgohain
(d) MC Mary Kom

Q87. The first Five-Year Plan’s main emphasis was to improve the condition of agriculture in India. The plan began in the year_____.

(a) 1953
(b) 1949
(c) 1952
(d) 1951

Q88. JP Nadda was elected as the President of the Bharatiya Janata Party (BJP) on 20 January 2020. He is the _____ president of the BJP.

(a) ninth
(b) tenth
(c) eleventh
(d) twelfth

Q89. Who among the following was awarded the Nobel Prize in Literature 2019 "for an influential work that with linguistic ingenuity has explored the periphery and the specificity of human experience"?

(a) Peter Handke
(b) Olga Tokarczuk
(c) Michel Mayor
(d) Abiy Ahmed Ali

Q90. Who among the following headed the nine-judge constitutional bench that declared the right to privacy as a fundamental right?

(a) JS Khehar
(b) Dipak Misra
(c) HJ Kania
(d) TS Thakur

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Q91. Which of the following group of scientists was awarded the 2019 Nobel Prize in Chemistry "for the development of lithium-ion batteries"?

(a) Kip Thorne, Rainer Weiss and Barry Barish
(b) Fraser Stoddart, Jean-Pierre Sauvage and Ben Feringa
(c) Joachim Frank, Richard Henderson and Jacques Dubochet
(d) John B Goodenough, M Stanley Whittingham and Akira Yoshino

Q92. As of October 2019, what is the total number of wildlife sanctuaries in India?

(a) 564
(b) 547
(c) 543
(d) 551

Q93. Who among the following was the first recipient of the Rajiv Gandhi Khel Ratna Award?

(a) PT Usha
(b) Vijay Amritraj
(c) Viswanathan Anand
(d) Sachin Tendulkar

Q94. Which of the following statements is correct?

(a) The Speaker of the Lok Sabha can dissolve the Lok Sabha.
(b) The Governor can dissolve the Legislative Assembly of a State.
(c) The President can dissolve the Rajya Sabha.
(d) The Vice-President can dissolve the Legislative Council of a State.

Q95. _____was an important member of the Hindustan Republican Association, who along with his associates executed the train dacoity at Kakori.

(a) Sohan Singh Bhakna
(b) Jatin Banerjee
(c) Khudiram Bose
(d) Ashfaqulla Khan

Q96. Who among the following invented the aeroplane?

(a) Orville and Wilbur Wright
(b) Auguste and Louis Lumiere
(c) Alexander Graham Bell
(d) Louis Pasteur and Alexander Fleming

Q97. The famous Chinese traveller Hieun Tsang visited India during which Emperor's reign?

(a) Ashoka
(b) Samudragupta
(c) Chandragupta I
(d) Harshavardhana

Q98. What is the Palk Strait?

(a) It is a water body that separates India and Sri Lanka.
(b) It is the border line between China and India in the western side.
(c) It is the boundary line between India and Pakistan.
(d) It is the boundary line between northeastern India and China.

Q99. Which of the following nations won the FIFA World Cup most number of times?

(a) Germany (including West Germany)
(b) Argentina
(c) France
(d) Brazil

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Q100. Which of the following is a very high-speed semiconductor memory which can speed up the CPU?

(a) Cache Memory
(b) Primary Memory
(c) Main Memory
(d) Secondary Memory

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Exodus

The correct answer is "Exodus".

Key Points

• Let us explore the given options:
• Mitigation means the action of reducing the severity, seriousness, or painfulness of something.
• Navigation means the process or activity of accurately ascertaining one's position and planning and following a route.
• Exodus means a mass departure (the action of leaving, especially to start a journey) of people.
• Immigration means the action of coming to live permanently in a foreign country.
• Hence, the correct answer is option 3.

Q2. Answer: (d) a pride of lions

The correct answer is "a pride of lions".

Key Points

• A group of lions is called a pride.
• From the given options, the fourth option is similar in meaning to the underlined segment.
• Pride means a group of lions forming a social unit.
• Hence, the correct answer is option 4.

Additional Information

• A school is an institution at which instruction is given in a particular discipline.
• A herd is a large group of animals, especially hoofed mammals (deer, sheep, goats, cattle) that live together or are kept together as livestock.
• A flock is a number of birds of one kind feeding, resting, or travelling together.

Q3. Answer: (d) Unite

The solution is in Hindi. Read it online.

Q4. Answer: (a) cultural performings

The correct answer is "cultural performings".

Key Points

• The use of the noun 'performings' is incorrect as the word does not have any meaning or existence.

• The noun 'performances' which means an act of presenting a play, concert or other forms of entertainment should be used.
• Therefore, the noun 'performances' should be used in place of 'performings'.
• Hence, the correct answer is option 1.
Correct Sentence: The Commonwealth Games had a grand opening ceremony with spectacular cultural performances.

Q5. Answer: (d) responsible

The correct answer is "responsible".
Key Points
• Let us explore the given options:
• Responding means saying something in reply.
• Responsive means reacting quickly and positively.
• Responsibility means the state or fact of having a duty to deal with something or of having control over someone.
• Responsible means being the primary cause of something and so able to be blamed or credited for it.
• Hence, the correct answer is option 4.

Q6. Answer: (c) health

The correct answer is "health".
Key Points
• Let us explore the given options:
• Illness means a disease or period of sickness affecting the body or mind.
• Rough means not gentle; violent or boisterous.
• Health means a person's mental or physical condition.
• Long means lasting or taking a great amount of time.
• Hence, the correct answer is option 3.

Q7. Answer: (c) cleaner

The correct answer is "cleaner".
Key Points
• Let us explore the given options:
• Immaculate means perfectly clean, neat, or tidy. It does not fit the context of the sentence as it is not possible to switch to perfectly clean fuels as even natural gases emit greenhouse gases.
• Righteous means morally right or justifiable.
• Cleaner means free from pollutants or unpleasant substances.
• Guiltless means having no guilt; innocent.
• Hence, the correct answer is option 3.

Q8. Answer: (d) polluting

The correct answer is "polluting".
Key Points
• We need an adjective, here, as we require a word that can describe the noun industries.
• Let us explore the given options:
• Pollute is the base form of the verb which means to contaminate (water, the air, etc.) with harmful or poisonous substances.
• Pollution is a noun which means the presence in or introduction into the environment of a substance which has harmful or poisonous effects.
• Polluted is the past form of the verb which means contaminated (water, the air, etc.) with harmful or poisonous substances.
• Polluting is the gerund or present participle form of the verb which means contaminating (water, the air, etc.) with harmful or poisonous substances. We know that the present participles of some verbs can be used as adjectives.
• This is an interesting story.
• Polluting industries will mean - industries that pollute.
• Hence, the correct answer is option 4.

Q9. Answer: (a) breathe

The correct answer is "breathe".
Key Points

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• From the context of the sentence, a base form of the verb should be used so that it can act as a to-infinitive.
• Let us explore the given options:
• Breathe is the base form of the verb which means to take air into the lungs and then expel it.
• Breathed is the past form of the verb which means taken air into the lungs and then expel it.
• Breather is a noun which means a person or animal that breathes in a particular way.
• Breathes is the third-person present form of the verb.
• Hence, the correct answer is option 1.

Q10. Answer: (c) Endurance

The correct answer is "Endurance".

Key Points

• The word 'Tolerance' means the capacity to endure pain or hardship.
• The synonyms of the word 'Tolerance' are "Endurance, Fortitude, Stamina".
• From the synonym of the given word, we can say that the word 'Endurance' is the correct answer.
• The word 'Endurance' means the ability to endure an unpleasant or difficult process or situation without giving way.

Hence, the correct answer is option 3. Let's see the meaning of other given options-

WORDS	MEANING
Impatience	the tendency to be impatient; irritability or restlessness
Oppression	prolonged cruel or unjust treatment or exercise of authority
Aggression	feelings of anger or antipathy resulting in hostile or violent behaviour

Additional Information

• The antonyms of the word 'Tolerance' are "impatience, defiance, willfulness".
• Example of 'Tolerance' in a sentence:
• The insect does not show tolerance to the salt.

Q11. Answer: (c) ADCB

The correct answer is "ADCB".

Key Points

• The sentence 'A' is independent of any other sentences as it is giving general information about the "forests of India". Hence, 'A' is the first sentence.
• Sentence 'D' gives us more information about the forests mentioned in 'A'. Hence, 'D' follows 'A'.
• The pronoun 'this' in the phrase "due to this" mentioned in the sentence 'C' refers back to the word "disappearing" mentioned in the sentence 'D'. Hence, 'C' follows 'D'.
• The final result of the "cutting down of the forests" is shown in the sentence 'B' and is concluding the paragraph. Hence, 'B' makes the last sentence.

Paragraph after rearranging the sentences: In India, forests are huge catchment areas for rivers and streams as they help in storing water. Unfortunately, these dense forest areas are disappearing. Due to this, many states are facing a shortage of water in the summer months. If these forests continue to be felled indiscriminately, rivers and streams will dry up leading to drought.

Important Points

• Important Rules to Solve the Para Jumbles:
• Read the sentences attentively and try to comprehend the idea or theme of the paragraph.
• Try to identify the opening and closing sentences of the paragraph. Try to identify the mandatory pairs.
• Sometimes it is not necessary to identify all the sentences, we can arrange the sentences by eliminating the irrelevant option one by one.

Q12. Answer: (a) Permit

The correct answer is "Permit".

Key Points

• The word 'Disable' means (of an action or circumstance) prevent or discourage someone from doing something.
• The antonyms of the word 'Disable' are "Permit, allow, support".
• From the antonym of the given word, we can say that the word 'Permit' is opposite in meaning.

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• The word 'Permit' means to officially allow someone to do something.

Hence, the correct answer is option 1. Let's see the meaning of other given options-

WORDS	MEANING
Disapprove	officially refuse to agree to something
Refuse	indicate or show that one is not willing to do something
Disallow	refuse to declare validly

Additional Information

• The synonyms of the word 'Disable' are "enjoin, forbid, prohibit".

• Example of 'Disable' in a sentence:

• Disable them by putting their control signals to idle states.

Q13. Answer: (b) Deride

The solution is in Hindi. Read it online.

Q14. Answer: (a) was taking ill

The correct answer is "was taking ill".

Key Points

• In the given sentence, the use of the past continuous form of the verb 'was taking ill' is incorrect.

• It should be 'was taken ill' instead which means 'to suddenly fall ill'.

• Be taken ill/sick - to suddenly fall ill (formal).

• Five people were killed and 17 others were taken ill.

• The word 'taking' means the action or process of taking something.

• Therefore, "was taken ill" should be used in the place of "was taking ill".

• Hence, the correct answer is option 1.

Correct Sentence: My domestic help was taken ill the day I had a party at my house.

Q15. Answer: (c) Jaggery is used by me to sweeten my tea in winters.

The correct answer is "Jaggery is used by me to sweeten my tea in winters".

Key Points

• In Active Voice, a sentence emphasizes the subject, performing an action.

• In Passive Voice, a sentence emphasizes the action or the object of the sentence.

• The given sentence is in the active voice and 'I' is the subject and 'jaggery' is the object.

• When we convert this sentence into passive voice, the subject 'I' of the active voice becomes the object 'me', the object 'jaggery' becomes the subject.

• The passive format "is + V3" should be used.

• This is the active and passive voice rule for the present simple tense.

• Hence, the correct answer is option 3.

Additional Information

• Verbs of passive format have a different set of tenses (*V3 - Past participle or Third form of the Verb) as given below in the table:

TENSE	ACTIVE	PASSIVE	PASSIVE CONVERSION
Present Simple	He plays football	am/is/are + V3	Football is played by him
Present Continuous	He is playing football	am/is/are + being +V3	Football is being played by him
Present Perfect	He has played football	Has/have + been+ V3	Football has been played by him
Present Perfect Continuous	He has been playing football	Not used and unusual.	Not used and unusual
Past Simple	He played football	Was/were + V3	Football was played by him
Past Continuous	He was playing football	Was/were + being + V3	Football was being played by him

Past Perfect	He had played football	Had + been + V3	Football had been played by him
Past Perfect Continuous	He had been playing football	Not used and unusual	Not used and unusual
Future Simple	He will play football	Will + be + V3	Football will be played by him
Future Continuous	He will be playing football	Not used and unusual	Not used and unusual
Future Perfect	He will have played football	Will have been + V3	Football will have been played by him
Future Perfect Continuous	He will have been playing football	Not used and unusual	Not used and unusual

Q16. Answer: (c) State your opinion clearly

The correct answer is "State your opinion clearly".

Key Points

• Given Idiom: Not mince (your) words means to speak in a very direct and honest way without worrying about offending someone.

• For example, Please do not mince your words about Maine's public schools.

• From the given options, the third option is the most appropriate meaning of the given idiom.

• Hence, the correct answer is option 3.

Mistake Points

• We may think from the phrase "Not mince (your) words" and the options that it is all about saying words that are confusing, but the correct answer is option 3. So be careful while dealing with such questions.

Q17. Answer: (d) Clearify

The correct answer is "Clearify".

Key Points

• Let us explore the options:

• 'Promote' means to support or actively encourage.

• 'Attacked' means to act against someone or something aggressively in an attempt to injure or kill.

• 'Provision' means the action of providing or supplying something for use.

• 'Clearify': There is no such word in English or we can say that there is some spelling mistake in this word.

• Hence, the correct answer is option 4.

Additional Information

• If we remove the letter 'e' between 'l' and 'a' then it will become a meaningful word 'Clarify' which means to make a statement or situation less confused and more comprehensible.

Q18. Answer: (c) No improvement

The correct answer is "No improvement".

Key Points

• In the given sentence, there is no need to substitute the underlined segment.

• The form of the verb 'ask' is correct as 'did' in the sentence is an auxiliary verb (or “helping verb”) that is followed by the main verb, which carries the real verb meaning.

• The auxiliary verb 'did' is marked for past tense, but the main verb is not. It appears in its base form.

• The determiner 'all', the number 'four', the preposition 'of' and the pronoun 'you' are correctly used and placed in the sentence.

• Hence, the correct answer is option 3.

Additional Information

• When there is an auxiliary verb, the main verb does not need to be marked for tense, because the tense is shown in the auxiliary.

• However, in a sentence about the past without an auxiliary verb, the main verb does need to be in the past tense form.

Q19. Answer: (a) BCDA

The correct answer is "BCDA".

Key Points

• The sentence 'B' is independent of any other sentences as it is giving general information about "Handloom". Hence, 'B' is the

first sentence.

• The phrase "the most prominent among Indian handlooms" mentioned in the sentence 'C' is linked with the "Handloom" mentioned in the sentence 'B'. Hence, 'C' follows 'B'.

• The phrase "Banarasi textiles" mentioned in the sentence 'C' is further described in the sentence 'D'. Hence, 'D' follows 'C'.

• The sentence 'A' is concluding the paragraph. Hence, 'A' makes the last sentence.

Paragraph after rearranging the sentences: Handloom refers to the use of wooden frames of various kinds by skilled artisans to weave fabric from natural fibres. One of the most prominent among Indian handlooms is Banarasi textiles. Banarasi textiles are made with gleaming gold threads and weaving techniques as old as time. However, in today's ever-changing world, power looms are replacing the traditional handloom textiles.

Important Points

• Important Rules to Solve the Para Jumbles:

• Read the sentences attentively and try to comprehend the idea or theme of the paragraph.

• Try to identify the opening and closing sentences of the paragraph. Try to identify the mandatory pairs.

• Sometimes it is not necessary to identify all the sentences, we can arrange the sentences by eliminating the irrelevant option one by one.

Q20. Answer: (c) Restrain

The correct answer is "Restrain".

Key Points

• The word 'Incite' means to encourage or stir up (violent or unlawful behaviour).

• The antonyms of the word 'Incite' are "restrain, calm, quiet".

• From the antonym of the given word, we can say that the word 'Restrain' is opposite in meaning.

• The word 'Restrain' means to control (a strong urge or emotion).

Hence, the correct answer is option 3. Let's see the meaning of other given options-

WORDS	MEANING
Provoke	stimulate or incite (someone) to do or feel something, especially by arousing anger in them
Appeal	make a serious, urgent, or heartfelt request
Instigate	incite someone to do something, especially something bad

Additional Information

• The synonyms of the word 'Incite' are "instigate, provoke, stir (up)".

• Example of 'Incite' in a sentence:

• Their posts don't incite violence.

Q21. Answer: (b) double standards

The correct answer is "double standards".

Key Points

• Let us explore the options:

• 'Many roles' means a number of functions assumed or parts played by a person or thing in a particular situation.

• 'Double standards' means a rule or principle which is unfairly applied in different ways to different people or groups.

• 'Strange achievements' means an unusual or surprising process or fact of achieving something.

• 'Multiple relations' means having or involving several relations.

• Hence, the correct answer is option 2.

Complete Sentence: I dislike people with double standards who say something and do something else.

Q22. Answer: (c) Annoy someone

The correct answer is "Annoy someone".

Key Points

• Given Idiom: Rub the wrong way means to be impolite or irritate someone.

• For example, Suddenly jamming an additional charge down their throats may rub the wrong way.

• From the given options, the third option is the most appropriate meaning of the given idiom.

• Hence, the correct answer is option 3.

Mistake Points

• We may think from the phrase "Rub the wrong way" and the options that it is all about rubbing incorrectly, but the correct answer is option 3. So be careful while dealing with such questions.

Additional Information

• The idiom/phrase originates from: T*he phrase is American in origin. The British version is "rub someone up". The phrase originated from cats, who like to be petted from the head to tail and get annoyed with someone doing it in the wrong direction. The cat reference originated in 1819 in "Aunt Mary's Tales". There is another reference to about a plant in "A General System of Nature" published in 1806.*

Q23. Answer: (c) Interfear

The correct answer is "Interfear". i.e. this spelling is incorrect.

Key Points

• Let us explore the options:

• 'Electorate' means all the people in a country or area who are entitled to vote in an election.

• 'Acrimony' means bitterness or ill-feeling.

• 'Interfear': There is no such word in English or we can say that there is some spelling mistake in this word.

• 'Selection' means the action or fact of carefully choosing someone or something as being the best or most suitable.

• Hence, the correct answer is option 3.

Additional Information

• If we remove the letter 'a' between 'e' and 'r' and add 'e' at the end after 'r' then it will become a meaningful word 'Interfere' which means to intervene in a situation without invitation or necessity.

Q24. Answer: (b) technician

The solution is in Hindi. Read it online.

Q25. Answer: (b) Roshan told me that Sandeep had made a new year greeting card for his teacher.

The correct answer is Roshan told me that Sandeep had made a new year greeting card for his teacher.

Key Points

• The given sentence is a direct speech.

• The basic rules for changing or converting direct speech into indirect speech:

• The commas and inverted commas are removed.

• The reporting verb 'said' is changed into 'told'.

• The past simple tense format 'Subject + V2 (made) + Object' in the direct speech will be changed into the past perfect tense format 'Subject + had + V3 (made) + Object' in the indirect speech.

• From the following rules, we get the correct sentence as- option 2*.*

Additional Information

• The following table will enable us to know how tense changes into Indirect speech:

Direct Speech	Indirect Speech
Present simple (Subject +V1st + Object)	Past simple (Subject +V2 + Object)
Present continuous (Subject +is/am/are+V1 +ing+ Object)	Past Continuous (Subject +was/were+V1 +ing+ Object)
Present perfect (Subject + has/have+V3+Object	Past perfect (Subject+had+V3+Object)
Past simple (Subject+V2+Object)	Past perfect (Subject+had+V3+Object)
Past Continuous (Subject +was/were+V1 +ing+ Object)	Past perfect continuous (Subject +had been+V1 +ing+ Object)
Future simple (Subject+ will/shall+V1+object)	Present Conditional (Subject+ would+V1+object)
Future Continuous (Subject +will/shall+be+V1 +ing+ Object)	Conditional Continuous (Subject +would+be+V1 +ing+ Object)

Q26. Answer: (c) Rs. 120

Given,

Three persons A, B, and C had Rs. 360 altogether.

A transferred half of the amount he had to B and C transferred half of the amount he had to A.

After the transfer, all of them have equal amounts.

Therefore, A + B + C = 360 at the end they have 120 each.
Final amount of A = Final amount of B = Final amount of C = 120
Let 2y be the initial amount with C.
Then amount given by C to A = y
Final amount of C = 120 = inital amount of C - amount transferred to A = 2y - y = y
Therefore, y = 120.
Therefore, initial amount of C must be 240 and amount transferred to A = 120.
So, initially, A + B = 120 because A + B + C = 360.
Now, final amount of B = 120 and before transfer A + B = 120..... (I)
Let 2x be the amount with A initially and z be the initial amount with B.
Then 2x + z = 120. (from I) .....(1)
Also, x + z = 120 (amount transferred by A + initial amount of B = final amount of B) .....(2)
From (1) and (2), we get 2x + z = x + z.
=> 2x = x
=> x = 0 and z = 120.
Hence, B had Rs. 120 initially.

Q27. Answer: (a) 2924

English Alphabet with positional value is:
Given,
is coded as 4417 and MINT is coded as 2234.
The pattern followed here is,SYNC

Letters	**S**	**Y**	**N**	**C**
Positional Value	19	25	14	03
Addition of the first two and last two	19 + 25 = 44	14 + 03 = 17		
Code	4417			

Letters	**M**	**I**	**N**	**T**
Positional Value	13	09	14	20
Addition of the first two and last two	13 + 09 = 22	14 + 20 = 34		
Code	2234			

Similarly,

Letters	**N**	**O**	**S**	**E**
Positional Value	14	15	19	05
Addition of the first two and last two	14 + 15 = 29	19 + 05 = 24		
Code	2924			

Hence, the correct answer is 2924.

Q28. Answer: (d) CFLXV

According to the English Alphabet series with positional value:
All the letters given are in continuous order of alphabet skipping one letter, except Option 4.
Hence, CFLXV is the odd one.

Q29. Answer: (b) XFLPJ

We know,
Given,

BOARD is written as CMDNI

Similarly,

Hence, the correct answer is XFLPJ.

Q30. Answer: (b) acaacba

Given,

ab_a_ _ba_ _a_ _ac

1) abcababaabacbac

2) abaac/abaac/abaac

3) abcaabbabaacbac

4) abaabcbacaabaac

Hence, the correct answer is acaacba.

Q31. Answer: (c) Physics

Algebra is the branch of Mathematics.

Similarly, Optics is the branch of Physics.

Hence, the correct answer is Physics.

Q32. Answer: (c) -, ×, +, ÷

Given equation,

12 * 3 * 6 * 8 * 4 = − 4

Put options in place of '*'

1) 12 × 3 − 6 + 8 ÷ 4 ≠ − 4

2) 12 ÷ 3 × 6 + 8 − 4 ≠ − 4

3) 12 − 3 × 6 + 8 ÷ 4 = − 4

4) 12 + 3 ÷ 6 × 8 − 4 ≠ − 4

Hence, the correct answer is −, ×, +, ÷.

Q33. Answer: (d) [figure]

Given,

so,

In the mirror image, the left and right part of the figure changes and the top and bottom part remains the same.

Hence, the correct answer is

Q34. Answer: (a) 576: 3375

The pattern followed here is,

Hence, the correct answer is 576: 3375.

Q35. Answer: (a) 12 : 78

Given,

8 : 36

The pattern followed here is,

8 : 36 = 8 × 4 + 4 = 36, here 8 is multiplied with 4 (half of 8) and addition of 4 to get number 36.

Similarly,

12 : 78 = 12 × 6 + 6 = 78, her 12 is multiplied with 6 (half of 12) and addition of 6 to get number 78.

Hence, the correct answer is 12 : 78.

Note: In the official question paper, option 4 was 10:42, but as it was generating multiple answers to the question, we have changed the option to 10: 43.

Q36. Answer: (d) Only conclusion III follows.

The least possible Venn diagram for the given statements is as follows.

Conclusions:

I. Some students are observers → False (It is possible but not definite)

II. Some observers are not students → False (It is possible but not definite)

III. Some observers are listeners → True (From Venn diagram we see it is possible)

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Hence, the correct answer is Only conclusion III follows.

Q37. Answer: (c) DMCPF

We know,
Given,
DASH: FYUF:: BOARD:?
The pattern followed here is,
Similarly,
Hence, the correct answer is DMCPF.

Q38. Answer: (b) 524

Given series,
589, 572, 557, 544, 533,?
The pattern followed here is,
Hence, the correct answer is 524.

Q39. Answer: (b) I, IV, III, II

Given,
I. Millimeter
II. Decameter
III. Decimeter
IV. Centimeter
The logical and meaningful order is,
Millimeter < Centimeter < Decimeter < Decameter
Hence, the correct answer is I, IV, III, II.

Q40. Answer: (a) Brother

Given,
What is the relation of Ramesh with his mother's son-in-law's wife's sister,
The above arrangement is the final arrangement and the relation of Ramesh is Brother.
Hence, the correct answer is Brother.

Q41. Answer: (d) [figure]

Given,
The shaded triangle is flipped in the next triangle circles are moved in the blank triangle alternately.
Thus,
=>
Hence, the correct answer is

Q42. Answer: (d) 853

The solution is in Hindi. Read it online.

Q43. Answer: (b) 26

Given,
5, 9, 10, 28, 17, 65, ?
The pattern followed here is,
Hence, the correct answer is 26.

Q44. Answer: (b) Silkworm: Sericulture

Given,
Fish: Pisciculture (Fish Farming)
Similarly,
Silkworm: Sericulture
Hence, the correct answer is Silkworm: Sericulture.

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Q45. Answer: (b) [figure]

Given,

The above figure is embedded in the following figure,

Hence, the correct answer is Option 2.

Q46. Answer: (a) HOPSUT

Given,

'DESIGN' is coded as 'OHJTFE'

The pattern followed here is,

Similarly,

Hence, the correct answer is HOPSUT.

Q47. Answer: (c) [figure]

Given,

The paper is folded and cut in the above manner, the unfolded paper will look like,

Hence, the correct answer is

Q48. Answer: (c) [figure]

Given,

Omnivore, Bear, Cattle

Here we know the bear is Omnivore and cattle is Herbivore.

Thus the Venn diagram formed is

Hence, the correct answer is

Q49. Answer: (d) 5

Given,

Here, we see the number '1' is common in both positions and '2' and '6' are adjacent to '1'.

So, the face opposite to '2' is '5'.

Hence, the correct answer is 5.

1 is common in both dice but at different positions.

So, write the numbers starting from 1 in clockwise direction for both dice.

In first dice => 1 - 6 - 2

In second dice => 1 - 3 - 5

By comparing both directions of given cube we get,

6 is opposite to 3.

2 is opposite to 5.

Then, 1 will be opposite to 4.

Hence, 5 is opposite to 2 is correct answer.

Q50. Answer: (d) 16

Given,

The number of triangles is,

Here we see small triangles are $6 \times 2 = 12$

Triangles formed by combining small triangles = 2

Large triangles = 2

Total triangles = 12 + 2 + 2 = 16

Hence, the correct answer is 16.

Q51. Answer: (a) -0.5797

Given-

$\sin x = 2/3$

Formula Used-

$\cos x = \sqrt{(1 - \sin^2 x)}$

$\cos 3x = 4\cos^3 x - 3\cos x$

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Calculation -
cosx = √(1 - 4/9)
=> √(5/9)
=> √5/3
cos3x = 4 × (√5/3)³ - 3 × √5/3
=> cos3x = 20√5/27 - √5
=> cos3x = -7√5/27
Therefore cos3x = -0.5797

Q52. Answer: (b) 8 years 4 months

Given-
Principal = 24
Amount = 56
Rate = 16%
Concept Used-
Interest = Amount - Principal
Interest = Principal × Rate × Time/100
Calculation-
Interest = 56 - 24 = 32
According to Question -
Interest = Principal × Rate × Time/100
=> 32 = 24 × 16 × Time/100
=> Time = 25/3 years
Therefore Required time = 8 years 4 months

Q53. Answer: (a) 2.1%

Given-
MRP = Rs 1,000
Discounted Special Price = Rs. 979
Formula Used-
Discount % = (MRP - Discounted Price)/MRP × 100
Calculation-
Discount % = (1000 - 979)/1000 × 100 = 2.1
Therefore Percentage of discount given for that item = 2.1%

Q54. Answer: (b) 43.75%

Given-
A student multiplied a number with 3/4 instead of 4/3
Concept Used-
Error Percentage = (Error/Correct Value) × 100
Calculation-
Let 1 is the number that is multiplied by 3/4 instead of 4/3
Hence the correct product is 4/3 instead of 3/4
Error Percentage = (4/3 - 3/4)/4/3 × 100
=> 7/12 × 3/4 × 100
=> 2100/48 = 43.75
Therefore The error percentage is 43.75 %.

Q55. Answer: (a) 63

Given-
Difference between two numbers = 3
The difference between their cubes is 999
Formula Used-

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$x^3 - y^3 = (x - y)^3 + 3xy(x - y)$

$(x + y)^2 = (x - y)^2 + 4xy$

$x^2 - y^2 = (x + y)(x - y)$

Calculation-

Let the two numbers be x and y

According to Question-

x - y = 3 -------(i)

x3 - y3 = 999 ----------(ii)

=> (x - y)3 + 3xy(x - y) = 999

=> 27 + 9xy = 999

=> xy = 108

Now,

(x + y)2 = (x - y)2 + 4xy

=> $(x + y)^2$ = 9 + 432

=> x + y = 21

x2 - y2 = (x + y)(x - y)

=> x2 - y2 = 21 × 3

=> 63

Therefore Difference between their squares = 63

Q56. Answer: (c) 3.67%

Formula Used-

Percentage Difference = (Difference in Value/Base Value) × 100

Calculation-

Total number of boys = 65 + 59 + 60 + 61

=> 245

Total number of girls = 58 + 57 + 62 + 59

=> 236

Percentage Difference = (245 - 236)/245 × 100

=> 3.67%

Therefore The total number of girls is 3.67% less than total number of boys.

Q57. Answer: (d) 5/12

Given-

Time is taken by A to do a work = 12 days

Time is taken by B to do the same work = 16 days

Concept Used-

Total Work = Efficiency × Total Time

Calculation-

Let the total work be 48 units.

Efficiency of A = 48/12

=> 4

Efficiency of B = 48/16

=> 3

Work done them in 4 days = 4 × (4 + 3)

=> 28 units

Left Work = 48 - 28

=> 20 units

Therefore Fraction of work that is left = 20/48

=> 5/12

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Q58. Answer: (a) 1

Given-

$x = 2 + \sqrt{3}$

Formula Used-

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

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

Calculation-

$x4 – 8x3 + 16x2$

$\Rightarrow x^2(x^2 - 8x + 16)$

$\Rightarrow x^2(x - 4)^2$

$\Rightarrow (2 + \sqrt{3})^2(2 + \sqrt{3} - 4)^2$ Because Putting the value of $x = 2 + \sqrt{3}$

$\Rightarrow (\sqrt{3} + 2)^2(\sqrt{3} - 2)^2$

$\Rightarrow \{(\sqrt{3} + 2)(\sqrt{3} - 2)\}^2$

$\Rightarrow (-1)^2$

$\Rightarrow 1$

Therefore The value of $x4 – 8x3 + 16x^2 = 1$

Q59. Answer: (d) 85.33 km/h

Given:

Speed of car = 64 km/hr

Time = 40 min

Formula used:

Distance = speed × time

Concept used:

To convert km/hr to m/s multiply with 5/18

Calculation:

Speed of car = 64 km/hr

Distance = 64 × 40/60 = 128/3 km

Speed = Distance/time

$\Rightarrow (128/3)/(1/2)$

$\Rightarrow 85.33$ km/hr

Therefore The speed of the car is 85.33 km/hr

Shortcut TrickSpeed prop. to 1/times

Time Speed

40/30 = 4/3 3/4

3→ 64, 4→ 4× 64/3 = 85.33 km/hr

Q60. Answer: (a) Rs. 4320

Given:

The selling price of saree = Rs 3060

Loss = 15%

Formula used:

SP = (100 – loss%)/100 × CP

SP = (100 + profit%)/100 × CP

Here, SP and CP is selling price and cost price respectively

Calculation:

CP = (SP × 100)/(100 – loss%)

$\Rightarrow$ (3060 × 100)/(100 – 15)

$\Rightarrow 3600$

Now, SP = (100 + profit%)/100 × CP

$\Rightarrow$ (100 + 20)/100 × 3600

$\Rightarrow 4320$

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Therefore The price of saree is Rs 4320

SP = Rs 3060

Loss% = 15% = 3/20

SP/CP = (20 – 3)/20 = 17/20

Here, 17 units = 3060

1 unit = 180

20 units = 180 × 20 = 3600

CP = 3600

Now, profit% = 20% = 1/5

SP/CP = (1 + 5)/5 = 6/5

Here, 5 units = 3600 then,

6 units = 3600/5 × 6 = 4320

Therefore The price of saree is Rs 4320

Q61. Answer: (b) 80°

Formula used:

Sum of all the angles of the triangle is 180°

Concept used:

Vertical opposite angle is same

Calculation:

Considering the intersection point of the BD and AE is O then,

In ΔADO,

angle ADO + angle DAO + angle DOA = 180°

=> 90° + 35° + angle DOA = 180°

=> 125° + angle DOA = 180°

=> angle DOA = 180° – 125°

=> angle DOA = 55°

Now, angle DOA = angle BOE = 55°

In ΔBOE,

angle BOE + angle OEB + angle EBO = 180°

=> 55° + angle OEB + 45° = 180°

=> angle OEB = 180° – 45° – 55°

=> angle OEB = 80° = angle AEB

Therefore The value of angle AEB is 80°

Q62. Answer: (d) 1

Formula used:

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

$\sin\theta = \cos(90° – \theta)$

Calculation:

Our given equation is

$\sin^2 35° + \sin^2 55°$

=> $\sin^2 35° + \text{Sin}^2(90° – 35°)$

=> $\sin^2 35° + \cos^2 35°$

=> 1

Therefore The value of given expression is 1

Additional Information

Q63. Answer: (b) 65

Concept used:

The reciprocal of a number is 1 divided by the number.

Calculation:

Let the number be x

Now, A/Q

$x - 20 = 2925/x$

$\Rightarrow x^2 - 20x - 2925 = 0$

$\Rightarrow x2 - 65x + 45x - 2925 = 0$

$\Rightarrow x(x - 65) + 45(x - 65) = 0$

$\Rightarrow (x + 45)(x - 65) = 0$

$\Rightarrow x = -45$ and $x = 65$

Therefore The required positive number is 65

Q64. Answer: (c) 600

Given:

The sale in 2019 = Rs 9200

Formula used:

Average = Sum of the total terms/Total number of the terms

Calculation:

The total cost of sale of furniture in 2015, 2016, 2017, 2018 = 16300 × 4 = 65200

The total cost of sale of furniture in 2016, 2017, 2018, 2019 = 18450 × 4 = 73800

The total cost of sale of furniture in 2016, 2017, 2018 = 73800 – 9200 = 64600

The sale in 2015 = 65200 – 64600 = 600

Therefore The sale of furniture in the year 2015 is 600

Q65. Answer: (b) 90

Given:

The number of red marbles = 150

Calculation:

Let the white marble and red marble be 3x and 5x respectively

Red marble = 150

$\Rightarrow 5x = 150$

$\Rightarrow x = 30$

Number of white marble = $3x = 3 \times 30 = 90$

Therefore The number of white marble is 90

The ratio of white marble and red marbles is 3 : 5

Here, 5 units = 150

$\Rightarrow$ 1 unit = 30

$\Rightarrow$ 3 units = 30 × 3 = 90

Therefore The number of white marble is 90

Q66. Answer: (b) 84

Given:

The area of the rectangle = 1764 cm2

Formula used:

Area of rectangle = length × breadth

Calculation:

Let the breadth of the rectangle be x then its length is 4x

Area = length × breadth

$\Rightarrow 4x \times x = 1764$

$\Rightarrow x^2 = 441$

$\Rightarrow x = 21$

Length of the rectangle = 4 × 21 = 84 cm

Therefore The length of the rectangle is 84 cm

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Q67. Answer: (b) 26°

Given:

angle PRQ=64°

Concept Used:

Angles opposite to equal sides are equal.

The sum of the angles of a triangle is 180°.

Formula Used:

θ = α/2

where θ → Angle made by a chord at circumference of a circle,

α → Angle made by the same chord at the center of the circle

Calculations:

Let angle POQ = x, angle OPQ = y

Chord PQ makes angle PRQ at the circumference and angle POQ at center of circle.

=> angle POQ = 2 × 64°

=> x = 128°

In ΔPOQ,

OP = OQ

=> angle OPQ = angle OQP = y

Now, In ΔPOQ,

angle POQ + angle OPQ + angle OQP = 180°

=> 128° + y + y = 180°

=> 2y = 180° – 128°

=> y = 52°/2

=> y = 26°

Therefore The value of angle OPQ is 26°.

Q68. Answer: (a) Class V

Given:

Boys in class V = 65

Girls in class V = 58

Boys in class VI = 59

Girls in class VI = 57

Boys in class VII = 60

Girls in class VII = 62

Boys in class VIII = 61

Girls in class VIII = 59

Concept Used:

Number of students = Number of Boys + Number of Girls

Calculations:

Number of students in class V = (65 + 58)

=> Number of students in class V = 123 ----(1)

Number of students in class VI = (59 + 57)

=> Number of students in class VI = 116 ----(2)

Number of students in class VII = (60 + 62)

=> Number of students in class VII = 122 ----(3)

Number of students in class VIII = (61 + 59)

=> Number of students in class VIII = 120 ----(4)

From (1), (2), (3), and (4), the maximum number of students is in class V

Therefore The class with a maximum number of students is V.

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Q69. Answer: (b) Class VIII

Given:

Boys in class V = 65

Boys in class VI = 59

Boys in class VII = 60

Boys in class VIII = 61

Concept Used:

Percentage Increase = (Boys in present class – Boys in a previous class)/Boys in previous class × 100

Calculations:

Boys in class V = 65

Boys in class VI = 59

From class V to VI, the number of boys decreased.

Boys in class VII = 60

Percentage Increase = (60 – 59)/59 × 100

=> Percentage Increase = 1.88% ----(1)

Boys in class VIII = 61

Percentage Increase = (61 – 60)/60 × 100

=> Percentage Increase = 1.66% ----(2)

From (1) and (2),

The required percentage increase is the least in class VIII.

Therefore The class in which the percentage increase in the number of boys as compared to its previous class is the least is VIII.

Q70. Answer: (d) 34

Given:

$\tan \theta + \cot \theta = 6$

Formula Used:

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

$\tan\theta \times \cot\theta = 1$

Calculations:

$\tan \theta + \cot \theta = 6$

Squaring both sides, we get

$(\tan \theta + \cot \theta)^2 = (6)^2$

$\Rightarrow \tan^2 \theta + \cot^2 \theta + 2 \times \tan\theta \times \cot\theta = 36$

$\Rightarrow \tan^2 \theta + \cot^2 \theta + 2 \times 1 = 36$

$\Rightarrow \tan^2 \theta + \cot^2 \theta = 36 – 2$

$\Rightarrow \tan^2 \theta + \cot^2 \theta = 34$

Therefore The value of $\tan^2 \theta + \cot^2 \theta$ is 34.

Q71. Answer: (a) 10010

Concept Used:

If a number x on dividing by y leaves the remainder r, then the number divisible by y is:

x + (y – r)

Formula Used:

Dividend = Divisor × Quotient + Remainder

Calculations:

Least 5-digit number = 10000

Dividend = Divisor × Quotient + Remainder

=> 10000 = 91 × 109 + 81

For a number to be divisible by another number, the remainder should be 0.

=> 10000 + (91 – 81) = 10010

Therefore The lease 5-digit number divisible be 91 is 10010.

Q72. Answer: (c) $x^2 + y^2 - 2x - 4y = 5$

Given:

Endpoints of diameter = (4, 3), (-2, 1)

Formula Used:

If (a,b) and (c,d) are 2 ends of a diameter, then

Centre of circle = (a + c)/2, (b + d)/2

Diameter = $\sqrt{(a – b)^2 + (c – d)^2}$

For a circle with centre (p, q) and radius r,

Equation of circle: $(x – p)^2 + (y – q)^2 = r^2$

Calculations:

Endpoints of diameter = (4, 3), (-2, 1)

=> Centre of circle = [(4 + (-2))/2, (3 + 1)/2]

=> Centre of circle = (1, 2)

Now, Radius = √(a – b)2 + (c – d)2

=> Radius = √(4 – (-2))2 + (3 – 1)2/2

=> Radius = √(40)/2 = √10

Now, Equation of circle: (x – p)2 + (y – q)2 = r2

=> Equation of circle : (x – 1)2 + (y – 2)2 = (√10)2

=> $x^2 + 1 – 2x + y^2 + 4 – 4y = 10$

=> x2 – 2x + y2 – 4y = 5

Therefore The equation of a circle whose diameter has endpoints (4, 3) and (-2, 1) is (x2 – 2x + y2 – 4y = 5).

Shortcut Trick

We can solve these types of questions by the help of options

As we know that any point present on the circle satisfies the equation of circle.

It is given that points (4, 3), (-2, 1) are the points on the circle so these point will satisfy the equation of circle.

Option 1)

x2 + y2 - 2x + 4y = 15

Put (4, 3) in the above equation, and we get

L.H.S = 16 + 9 - 8 + 12 ≠ 15

So, L.H.S ≠ R.H.S

Option 2)

x2 + y2 - 6x + 2y = 3

Put (4, 3) in the above equation, and we get

16 + 9 - 24 + 6 ≠ 15

So, L.H.S ≠ R.H.S

Option 3)

x2 + y2 - 2x - 4y = 5

Put (4, 3) in the above equation, and we get

16 + 9 - 8 - 12 = 5

L.H.S = R.H.S

x2 + y2 - 2x - 4y = 3

Put (-2, 1) in the above equation, and we get

4 + 1 + 4 - 4 = 5

L.H.S = R.H.S.

Here we can say that these points satisfy the given equation x2 + y2 - 2x - 4y = 5

Now, we don't need to check 4th option

Therefore The third option is the correct option.

Q73. Answer: (a) 59

Given:

Girls in class V = 58

Girls in class VI = 57

Girls in class VII = 62
Girls in class VIII = 59
Concept Used:
Average = Total number of girls/Number of classes
Calculations:
Total number of girls in all classes = (58 + 57 + 62 + 59)
=> Total number of girls in all classes = 236
Number of classes = 4
Average = Total number of girls/Number of classes
=> Average = 236/4
=> Average = 59
Therefore The average number of girls in all the classes is 59.

Q74. Answer: (c) 1109

Given:
Sum of 2 numbers = 47
Product of 2 numbers = 550
Formula Used:
$(a + b)^2 = a^2 + b^2 + 2ab$
Calculations:
Let the 2 numbers be x and y respectively.
x + y = 47
Squaring both sides, we get
$(x + y)^2 = (47)^2$
=> x2 + y2 + 2xy = 2209
=> x2 + y2 + 2 × 550 = 2209
=> x2 + y2 = 2209 – 1100
=> x2 + y2 = 1109
Therefore The sum of squares of 2 number is 1109.

Q75. Answer: (a) acute angled triangle

Given:
The angles of a triangle are in the ratio = 3 : 4 : 5
Concept used:
Sum of all the angles of the triangle is 180°
An acute-angled triangle is a type of triangle in which all the three internal angles of the triangle are acute, i.e less than 90°
An obtuse-angled triangle is a triangle in which one of the interior angles measures more than 90°
A right triangle or right-angled triangle is a triangle in which one angle is a right angle
An isosceles triangle is a triangle that has two sides of equal length
Calculations:
Let the angles of the triangle be 3x, 4x and 5x respectively
=> 3x + 4x + 5x = 180°
=> 12x = 180°
=> x = 15°
The angles of the triangle are,
3x = 45°
4x = 60°
5x = 75°
Because All the angles of the triangle are less than 90°
Therefore The triangle is an acute-angled triangle
Mistake Points
The angles of a triangle are in the ratio 3 : 4 : 5.

Here ratios of angle are given, If the ratio of sides is given as 3 : 4 : 5 then the triangle will be Right-angled.

Q76. Answer: (b) Graphics Tablet

The correct answer is a Graphics tablet.

Important Points

• A graphics tablet consists of an electronic writing area and a special ‘pen’ that works with it.

• A graphics tablet is a device that allows us to hand draw animations, images, and graphics. It is a computer input device.

• The special pen used in a graphics tablet is known as a stylus. The tablet is also used to capture handwritten signatures.

• In the year 1888 Elisha Gray patented the first electronic handwriting device the Telautograph.

Additional Information

• A trackball is a pointing device used to track a pointer on a computer system. It consists of a ball held by a socket containing sensors.

• A plotter is a printer like a computer hardware device used for printing vector graphics.

Q77. Answer: (d) Virat Kohli

The correct answer is Virat Kohli.

Important Points

• As of January 2020, Virat Kohli has the distinction of having the highest career batting average in Twenty20 Internationals.

• Virat Kohli right-handed top-order batsman and the current captain of the National Indian cricket team.

• In 2020, the ICC Men's Player of the Decade award has been given to Virat Kohli, which was conducted by DNA India.

• Virat Kohli has won the title of the Man of the tournament twice at the ICC World Twenty20 (in 2014 and 2016).

Additional Information

• Ryan ten Doeschate had the distinction of having the highest career batting average in One Day Internationals as of January 2020.

• The ICC Men's T20 World Cup 2021 will be hosted by India.

Q78. Answer: (c) Cheraw dance

The correct answer is Cheraw dance.

Important Points

• Cheraw is the traditional bamboo dance of Mizoram.

• The Cheraw or bamboo dance is a traditional dance of Mizoram. It is considered to be one of the oldest dances of Mizoram. The dance is believed to have emerged out of a ritual.

• In this dance form, bamboos are kept in horizontal or cross formation on the ground. Pairs of these bamboo staffs are held by six to eight people.

• The male dancers move these bamboos to a rhythmic beat while the female dancers move gracefully while stepping in and out of the bamboo formations. The bamboos are clapped together by the male dancers to a specific beat.

Additional Information

• Thang ta is a martial art from Manipur.

• Maanch is a dance performed in Malwa, Madhya Pradesh.

• Yak Chaam dance is performed in Sikkim by the Bhutia community.

Q79. Answer: (c) eye

The correct answer is the eye.

Important Points

• The centre of a cyclone is a calm area. It is called the eye of the storm.

• The central calm region of the storm is called the "Eye". The diameter of the eye varies between 30 and 50 km and is a region free of clouds and has light winds.

• A "Cyclonic Storm" or a "Cyclone" is an intense vortex or a whirl in the atmosphere with very strong winds circulating around it in an anti-clockwise direction in the Northern Hemisphere and in a clockwise direction in the Southern Hemisphere.

• Cyclone warnings issued to the Chief Secretaries, the Relief Commissioners and the District Collectors of the maritime states are the very basic information for cyclone distress prevention and mitigation.

Additional Information

• The present Minister of Environment, Forest and Climate Change of India is Prakash Javadekar. (Apr 2021)

• India Meteorological Department (IMD) is an agency of the Government of India responsible for meteorological observations.

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Q80. Answer: (c) 1^(st) April 1935

The correct answer is 1st April 1935.

Important Points

• Reserve Bank of India, which acts as a banker to the Central Government, was established on 1st April 1935.

• The Reserve Bank of India was established on April 1, 1935, in accordance with the provisions of the Reserve Bank of India Act, 1934.

• The Central Office of the Reserve Bank was initially established in Kolkata but was permanently moved to Mumbai in 1937. The Central Office is where the Governor sits and where policies are formulated.

• Sir Osborne Arkell Smith was the first Governor of the Reserve Bank of India.

• Shri Shaktikanta Das is the present Governor of the RBI and the RBI is headquartered in Mumbai.

Q81. Answer: (a) New Delhi

The correct answer is New Delhi.

Important Points

• New Delhi is home to one of the famous Swaminarayan Akshardham temples in India.

• Swaminarayan Akshardham in New Delhi epitomizes 10,000 years of Indian culture in all its breathtaking grandeur, beauty, wisdom, and bliss.

• The Akshardham experience is an enlightening journey through India’s glorious art, values, and contributions to the progress, happiness, and harmony of mankind.

• The Swaminarayan Akshardham complex was built in only five years through the blessings of HDH Pramukh Swami Maharaj of the Bochasanwasi Shri Akshar Purushottam Swaminarayan Sanstha (BAPS) and the colossal devotional efforts of 11,000 artisans and thousands of BAPS volunteers.

• Heralded by the Guinness World Record as the World’s Largest Comprehensive Hindu Temple, the complex was inaugurated on 6 November 2005.

Q82. Answer: (c) Lakshadweep

The correct answer is Lakshadweep.

Important Points

• In terms of area, Lakshadweep is the smallest Union Territory of India.

• Lakshadweep is the smallest Union Territory of India with an area of 32 sq km.

Additional Information

• In terms of area, Jammu and Kashmir is the largest Union Territory of India.

• In terms of area, Rajasthan is the largest state of India.

• In terms of area, Goa is the smallest state of India.

• Kachchh (Gujarat) is the largest district in India.

• Mahe (Pondicherry) is the smallest district in India.

Confusion Points

• Leh District area - 45110 Sq Km

• Kachchh District area - 45674 Sq Km.

• Leh with an area of 45100 sq. Km. makes it one of the largest Districts in the country.

• Kutch is the largest district in terms of geographical area

Q83. Answer: (a) 78

The correct answer is 78.

Important Points

• 78 women candidates were elected to the 17th Lok Sabha.

• Out of 542 MPs in the 17th Lok Sabha of 2019 highest-ever number of women have been elected which is 78.

• In the 2019 Lok Sabha polls, a total of 724 women candidates participated in the election.

• The maximum strength of the Lok sabha envisaged by the Constitution is 550, which is made up by the election of up to 530 members to represent the States, up to 20 members to represent the Union Territories.

• The present speaker of the Lok Sabha is Om Birla.

Additional Information

• The Rajya Sabha is the upper house of the bicameral Parliament of India.

• Rajya Sabha is known as the house of elders.

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• Rajya Sabha is constituted under Article 80 of the Indian constitution.

• Rajya Sabha is a permanent body and not subject to dissolution.

Q84. Answer: (b) 1959

The correct answer is 1959.

Important Points

• In the year 1959, Dalai Lama crossed over into India and take asylum.

• Tibet increasingly came under Chinese control at the beginning of the 20th century.

• The people of Tibet who practice a unique form of Buddhism suffered under communist China's anti-religious legislation.

• The current Dalai Lama is the 14th Dalai Lama, he was born in Taktser, China. His full name is Lhamo Thondup.

• Dalai Lama is considered a living buddha and he is the highest spiritual leader of Tibet. He was designated the 14th Dalai Lama in 1940.

Additional Information

• Dalai Lama was awarded the Nobel Prize for Peace in the year 1989.

• Gedun Drupa who was born in 1391 is considered to be the first Dalai Lama.

Q85. Answer: (c) Equator

The correct answer is the Equator.

Important Points

• India is located to the North of the Equator.

• An imaginary line that passes through the middle of any planet or celestial body that divides it into halves is known as the equator.

• In India, lying entirely in the Northern Hemisphere, the Country extends between 8°4' and 37°6' latitudes north of the Equator, and 68°7' and 97°25' longitudes east of it.

Additional Information

• The Equator was discovered by Charles-Marie de La in the year 1736.

• Tropic of Cancer passes through 8 Indian states including Gujarat, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, West Bengal, Tripura, and Mizoram.

• On the Northside, India shares its borders with Pakistan, Afghanistan, Nepal, Bhutan, China, and Bangladesh.

Q86. Answer: (a) Manju Rani

The correct answer is Manju Rani.

Important Points

• Manju Rani has won silver in the AIBA Women's World Boxing Championships in October 2019 in the light flyweight category (48 kg).

• Manju Rani is an Indian boxer from Rohtak, Haryana. She also won a silver medal at the Strandja Memorial Boxing Tournament 2019, Bulgaria in the 48kg category.

• The International Boxing Association or AIBA is an organization that sanctions amateur boxing matches. The AIBA is headquartered in Lausanne, Switzerland.

Additional Information

• Lovlina Borgohain is an Indian women boxer who has won a bronze medal in the 2018 & 2019 AIBA Women's World Boxing Championships. She received the Arjuna award in the year 2020.

• Jamuna Boro is an Indian women boxer who has won a gold medal at the 2nd India Open International Boxing Tournament held in Guwahati.

• MC Marycom is the only female boxer in the world to have won a medal in each one of the first seven World Championships.

Q87. Answer: (d) 1951

The correct answer is 1951.

Key Points

• The first Five-Year Plan's main emphasis was to improve the condition of agriculture in India. The plan began in the year 1951.

• After independence, India launched its First FYP in 1951, under the socialist influence of the first Prime Minister Jawaharlal Nehru.

• The Plan Focussed on agriculture, price stability, power, and transport It was based on the Harrod-Domar Model.

• The process began with the setting up of Planning Commission in March 1950 in pursuance of declared objectives of the Government to promote a rapid rise in the standard of living of the people by efficient exploitation of the resources of the country,

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increasing production and offering opportunities to all for employment in the service of the community.

• The first Five-year Plan was launched in 1951 and two subsequent five-year plans were formulated till 1965 when there was a break because of the Indo-Pakistan Conflict.

Q88. Answer: (c) eleventh

The correct answer is eleventh.

Important Points

• JP Nadda is the eleventh President of the Bharatiya Janata Party (BJP).

• J. P. Nadda is an Indian politician and the former Union Minister of Health and Family Welfare in the Himachal Pradesh Government.

• He was the Minister of Health during a cabinet reshuffle in 2014.

Additional Information

• Atal Bihari Vajpayee was the first President of the Bharatiya Janata Party.

• Amit Shah was the tenth President of the Bharatiya Janata Party.

• Nitin Gadkari was the ninth President of the Bharatiya Janata Party.

Q89. Answer: (a) Peter Handke

The correct answer is Peter Handke.

Important Points

2019 Nobel Prize.

Field	Recipient	Awarded for
The Nobel Peace Prize 2019	Abiy Ahmed Ali	“for his efforts to achieve peace and international cooperation, and in particular for his decisive initiative to resolve the border conflict with neighboring Eritrea”.
The Nobel Prize in Literature 2019	Peter Handke	“for an influential work, that with linguistic ingenuity has explored the periphery and the specificity of human experience”
The Nobel Prize in Physics 2019	James Peebles, Michel Mayor, and Didier Queloz	James Peebles “for theoretical discoveries in physical cosmology” Michel Mayor and Didier Queloz “for the discovery of an exoplanet orbiting a solar-type star”.
The Nobel Prize in Chemistry 2019	John B. Goodenough, M. Stanley Whittingham, and Akira Yoshino	“for the development of lithium-ion batteries"
The Nobel Prize in Physiology or Medicine 2019	William G. Kaelin Jr, Sir Peter J. Ratcliffe, and Gregg L. Semenza	“for their discoveries of how cells sense and adapt to oxygen availability

Q90. Answer: (a) JS Khehar

The correct answer is JS Khehar.

Important Points

• JS Khehar headed the nine-judge constitutional bench that declared the right to privacy as a fundamental right.

• Protected under the constitution of India on 24 August 2017, the Supreme Court of India made a historic judgment and declared the right to privacy as a fundamental right.

• Jagdish Singh Khehar was the former and 44th Chief Justice of India. He was appointed as the CJI in the year 2017.

Additional Information

• Justice Dipak Misra was the former and 45th Chief Justice of India. He played an important role in legalizing gay sex and in the removal of section 377.

Q91. Answer: (d) John B Goodenough, M Stanley Whittingham and Akira Yoshino

The correct answer is John B Goodenough, M Stanley Whittingham, and Akira Yoshino.

Important Points

• 2019 Nobel Prize Winners -

Field	Recipient	Awarded for

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The Nobel Peace Prize 2019	Abiy Ahmed Ali	“for his efforts to achieve peace and international cooperation, and in particular for his decisive initiative to resolve the border conflict with neighboring Eritrea”.
The Nobel Prize in Literature 2019	Peter Handke	“for an influential work, that with linguistic ingenuity has explored the periphery and the specificity of human experience”
The Nobel Prize in Physics 2019	James Peebles, Michel Mayor, and Didier Queloz	James Peebles “for theoretical discoveries in physical cosmology” Michel Mayor and Didier Queloz “for the discovery of an exoplanet orbiting a solar-type star”.
The Nobel Prize in Chemistry 2019	John B. Goodenough, M. Stanley Whittingham, and Akira Yoshino	“for the development of lithium-ion batteries"
The Nobel Prize in Physiology or Medicine 2019	William G. Kaelin Jr, Sir Peter J. Ratcliffe, and Gregg L. Semenza	“for their discoveries of how cells sense and adapt to oxygen availability

Q92. Answer: (d) 551

The correct answer is 551.

Key Points

• As of October 2019, a total of 551 wildlife sanctuaries in India.

• The union territory of Andaman and Nicobar Islands has the highest number of wildlife sanctuaries in India i.e. 96.

• Jim Corbett National Park in Uttrakhand is the oldest National park established in 1936 is the oldest national park of India.

Important Points

• Currently, there are565 wildlife sanctuaries in India.

Additional Information

• There is a total of 106 national parks in India.

• There are a total of 53 Tiger reserves in India.

• There are a total of 72 bird sanctuaries in India.

Q93. Answer: (c) Viswanathan Anand

The correct answer is Viswanathan Anand.

Important Points

• Viswanathan Anand was the first recipient of the Rajiv Gandhi Khel Ratna Award.

• Viswanathan Anand is an Indian chess grandmaster. He is also the former world champion.

• Rajiv Gandhi Khel Ratna Award is given for the spectacular and most outstanding performance in the field of sports by a sportsperson over a period of four years. The award was started in the year 1991-92.

Additional Information

• In the year 2020, the Rajiv Gandhi Khel Ratna Award was given to

Name of the Sportsperson	Discipline
Shri Rohit Sharma	Cricket
Shri Mariyappan Thangavelu	Para Athletics
Ms Manika Batra	Table Tennis
Ms. Vinesh Phogat	Wrestling
Ms. Rani Rampal	Hockey

Q94. Answer: (b) The Governor can dissolve the Legislative Assembly of a State.

The correct answer is The Governor can dissolve the Legislative Assembly of a State.

Key Points

• The correct statement is The Governor can dissolve the Legislative Assembly of a State.

• The Head of the State is the Governor. She/He is appointed by the Central Government to ensure that the State Government works within the rules and regulations of the Constitution.

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• After the elections, it is the Governor of the state who appoints the chief minister and other ministers.

• The Governor is appointed by the central government and therefore, the actions of the Governor are often viewed as interference by the Central government in the functioning of the State government.

Important Points

• Sarojini Naidu was the first female governor of India, she was the governor of Uttar Pradesh from 1947 to 1949.

Q95. Answer: (d) Ashfaqulla Khan

The correct answer is Ashfaqulla Khan.

Important Points

• Ashfaqulla Khan was an important member of the Hindustan Republican Association, who along with his associates executed the train dacoity at Kakori.

• Hindustan Socialist Republican Association (HSRA) was a revolutionary organization established by Chandrasekhar Azad in the year 1928.

• The Kakori conspiracy occurred on 9th August 1925. Some people of the party including Bismil, Rajendra Lahiri, Ashfaqulla Khan, and Thakur Roshan Singh looted a train carrying government money near Lucknow.

• In 1927, all four men involved in this activity were hanged by the Government of India.

Additional Information

• In 1928, the Simon Commission came to India.

• In 1931, Bhagat Singh, Rajguru, and Sukhdev were hanged to death.

Q96. Answer: (a) Orville and Wilbur Wright

The correct answer is Orville and Wilbur Wright.

Important Points

• Orville and Wilbur Wright invented the Aeroplane in the year 1903.

• The Wright brothers are credited with inventing, building, and flying the world's the first successful airplane which was operated by motors.

• They created a three-axis control system, which helped in maintaining the equilibrium of an airplane and to control it properly.

• The name of the first successful aircraft they build in 1903 was the Wright Flyer. And, the first truly practical fixed-wing aircraft was the Wright Flyer III.

Additional Information

• Auguste and Louis Lumiere invented the photography equipment, they are known for their Cinematographe motion picture system.

• The first practical telephone and Graphophone was invented by Alexander Graham Bell.

Q97. Answer: (d) Harshavardhana

The correct answer is Harshavardhana.

Important Points

• During the reign of Harshavardhana famous Chinese traveler, Hieun Tsang visited India.

• The Chinese traveler, Hiuen Tsang, who visited India during his reign, has given a vivid description of the social, economic, and religious conditions, under the rule of Harsha spoke highly of the king.

• Harshavardhana is well known for his religious toleration, able administration, and diplomatic relations. He maintained diplomatic relations with China and sent envoys, who exchanged ideas of the Chinese rulers and developed their knowledge about each other.

• In 620 A.D. Harshavardhana invaded the Chalukya kingdom in the Deccan, which was then ruled by Pulakesin II. But the Chalukya resistance proved tough for Harshavardhana and he was defeated.

• Hiuen Tsang has taught many secrets of Chinese wisdom to Indians. Hiuen Tsang returned to China he brought with him Sanskrit scriptures and books of wisdom.

Q98. Answer: (a) It is a water body that separates India and Sri Lanka.

The correct answer is Palk Strait.

Important Points

• Palk Strait is a water body that separates India and Sri Lanka.

• Palk strait is a water body between the Jaffna district of Sri Lanka and the Tamil Nadu state of India. The Palk strait connects the Bay of Bengal in the northeast with Palk Bay in the southwest.

• The Palk strait is named after the Governor of Madras Robert Palk, during the Company Raj period.

• Vaigai River of Tamil Nadu flows into the Palk Strait.

Additional Information

• The Radcliffe Line is the boundary line between India and Pakistan.

• The McMahon Line is the boundary line between northeastern India and China.

Q99. Answer: (d) Brazil

The correct answer is Brazil.

Important Points

• Brazil has won the FIFA World Cup most number of times i.e. 5 times.

• Brazil has won the FIFA World Cup in the following years 1958, 1962, 1970, 1994 and, most recently, in 2002.

• The current champions of the FIFA World Cup is France, they won their second title at the 2018 tournament in Russia.

• The 2022 FIFA World Cup is scheduled to be the 22nd edition of the FIFA World Cup. It is scheduled to take place in Qatar from 21 November to 18 December 2022.

Additional Information

• Federation Internationale de Football Association (FIFA) is the international governing body of football association.

• FIFA was founded in 1904 to oversee international competition among the national associations of Belgium, Denmark, France, Germany, the Netherlands, Spain, Sweden, and Switzerland.

• FIFA is headquartered in Zurich, Switzerland.

Q100. Answer: (a) Cache Memory

The correct answer is Cache memory.

Important Points

• Cache memory is a very high-speed semiconductor memory that can speed up the CPU.

• Cache memory acts as a buffer between the main memory and the CPU. It holds the most frequently used part of the program and data.

• Some advantages of cache memory are -

• For temporary use, it is helpful in storing data.

• It is faster than the main memory.

Additional Information

• Cache memory holds only those data and instructions that are held by the primary memory or main memory on which the computer is currently working.

• For storing data/information permanently secondary memory also known as external memory or non-volatile is used.

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