SSC CHSL Previous Paper 25 (Held On: 20 Oct 2020 Shift 3) (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: Given below are four sentences in a jumbled order. Out of the given options pick the one that gives their correct order.

A. Add the product to your shopping cart.

B. Select the brand you like.

C. Enter the card details and buy the product online.

D. Look for the product you want to purchase.

(a) ABCD
(b) DACB
(c) BCDA
(d) DBAC

Q2. Directions: Select the most appropriate synonym of the given word.

Delinquent

(a) Offending
(b) Rewarding
(c) Despairing
(d) Charming

Q3. Directions: Identify the segment in the sentence given below which contains a grammatical error.

The old woman in our locality is knowing for her hot temper.

(a) is knowing for
(b) In our locality
(c) The old woman
(d) her hot temper

Q4. Directions: Select the correct antonym for the given word.

Formidable

(a) Trivial
(b) Scary
(c) Appalling
(d) Dangerous

Directions

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 blank.

The two men bowed to one (1)____ and parted. Tom found himself in a difficult (2)__. He was going to (3)__ three duels in a (4)__ of three hours. "Even if I am killed, it will be a (5)____ death," he thought.

Q5. Select the most appropriate option to fill in blank no.5

(a) curious
(b) glorious
(c) spurious
(d) laborious

Q6. Select the most appropriate option to fill in blank no.4

(a) place
(b) difference
(c) matter
(d) time

Q7. Select the most appropriate option to fill in blank no.3

(a) fight
(b) think
(c) figure
(d) participate

Q8. Select the most appropriate option to fill in blank no.2

(a) relation
(b) situation
(c) location
(d) station

Q9. Select the most appropriate option to fill in blank no.1

(a) other
(b) self
(c) each
(d) another

Q10. 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.

The Dean said, "You can have neither jam nor butter, but not both."

(a) either jam or butter
(b) no jam or butter
(c) No improvement.
(d) jam and butter

Q11. Directions: Select the correct indirect form of the given sentence.

Peter said, "He broke his glasses."

(a) Peter said that he break his glasses.
(b) Peter said that he is going to break his glasses.
(c) Peter said that he is breaking his glasses.
(d) Peter said that he had broken his glasses.

Q12. Directions: Select the most appropriate meaning of the given idiom.

Flying off the handle

(a) Suddenly becoming enraged
(b) Flying away, being launched from a handle
(c) Daydreaming
(d) Having lofty ideas

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Q13. Directions: Select the wrongly spelt word.

(a) Conviencing
(b) Commemorate
(c) Conveyance
(d) Concussion

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

When Harry come back home, he saw blood everywhere.

(a) he saw
(b) come back home
(c) When Harry
(d) blood everywhere

Q15. Directions: Select the correct antonym for the given word.

Identical

(a) Different
(b) Indistinguishable
(c) Similar
(d) Corresponding

Q16. Directions: Select the correct passive form of the given sentence.

The police arrested the thieves yesterday.

(a) The thieves had been arrested yesterday by the police.
(b) The thieves have been arrested yesterday by the police.
(c) The thieves were arrested yesterday by the police.
(d) The thieves were being arrested yesterday by the police.

Q17. Directions: Select the most appropriate word to fill in the blank.

The yoga instructor was _____ at the student's flexibility.

(a) amazed
(b) disturbed
(c) angry
(d) ridiculed

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.

Tons of sheep was grazing in the field.

(a) No improvement.
(b) A flock of sheep
(c) Many sheeps
(d) Numerous sheeps

Q19. Directions: Given below are four sentences in a jumbled order. Out of the given options pick the one that gives their correct order.

A. The police suspected the man to be a thief.

B. Then the trial began in the court.

C. He was soon arrested by the police.

D. The thief was sentenced to two years' imprisonment.

(a) BACD
(b) DCAB
(c) ACBD
(d) BCDA

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Q20. Directions: Select the most appropriate meaning of the given idiom.

To cost an arm and a leg

(a) To give away an arm and a leg
(b) Not readily available
(c) Easily affordable
(d) Very expensive

Q21. Directions: Select the word which means the same as the group of words given.

Something like an opening, particularly one in the body such as a nostril

(a) Oblique
(b) Obtuse
(c) Orifice
(d) Obscure

Q22. Directions: Select the word which means the same as the group of words given.

Something that is extremely unpleasant

(a) Heightened
(b) Humane
(c) Horrendous
(d) Humorous

Q23. Directions: Select the most appropriate word to fill in the blank.

The government enterprises were privatized as they were _____ heavy losses on a daily basis.

(a) earning
(b) containing
(c) demanding
(d) incurring

Q24. Directions: Select the most appropriate synonym of the given word.

PRODIGIOUS

(a) Proud
(b) Unimportant
(c) Immense
(d) Exciting

Q25. Directions: Select the wrongly spelt word.

(a) Voracous
(b) Valour
(c) Video
(d) Voluntary

GENERAL INTELLIGENCE

Q26. Select the option in which the words share the same relationship as that shared by the given pair of words.

Chief Justice : President

(a) Chief of Army Staff : Prime Minister
(b) Municipal Commissioner : State Government
(c) Chief Minister : Cabinet Minister
(d) Corporator : Mayor

Q27. In a certain language, 'salute' is written as 'iuamet'. How will 'mango' be written in that language?

(a) phobn
(b) uhpen
(c) uhobn

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(d) uhoen

Q28. Select the option that is related to the third letter - cluster in the same way as the second letter - cluster is related to the first letter - cluster.

CDE : XWV :: HIJ : ?

(a) NOP
(b) QRS
(c) PON
(d) SRQ

Q29. In a certain code language, 'Wand' is coded as '240153' and 'Curd' is coded as '420193'. How will 'East' be coded as in that language?

(a) 421719
(b) 612120
(c) 421821
(d) 602019

Q30. Shraddha says to Sharayu, "Your mother - in - law is my father's mother who is eldest son, but your husband is not my father." How is Sharayu related to Shraddha?

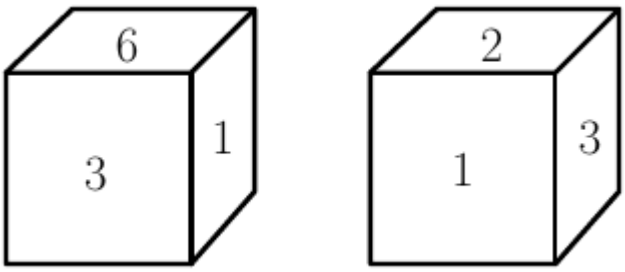
(a) Niece
(b) Aunt
(c) Daughter
(d) Mother

Q31. Select the option that is related to the third word in the same way as the second word is related to the first word.

India : Delhi :: Jharkhand : ?

(a) Ranchi
(b) Bhopal
(c) Dispur
(d) Bhubaneshwar

Q32. Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having '6'.



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

Q33. A pipe can fill a leak - proof tank completely in 24 hours. A leakage at the midpoint of same size tank empties half the tank in 36 hours. How much time will it take to fill this tank with the given pipe?

(a) 30 hrs
(b) 36 hrs
(c) 18 hrs
(d) 72 hrs

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Q34. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. All workers are honest.
2. Few of my friends are workers.
3. All my friends are honest.

Conclusion:

I. All my friends are workers.

II. All workers are my friends.

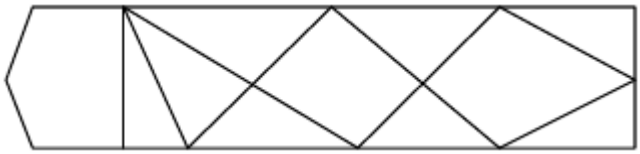
III. All my non - worker friends are honest.

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

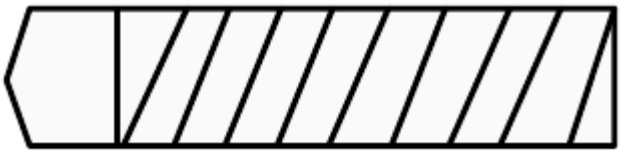
Q35. Select the option in which the given figure is embedded. (Rotation is not allowed)



(a)



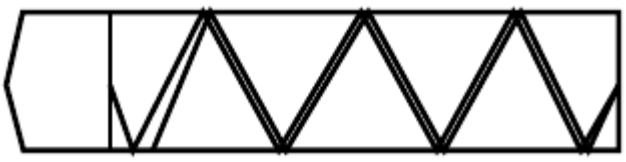
(b)



(c)

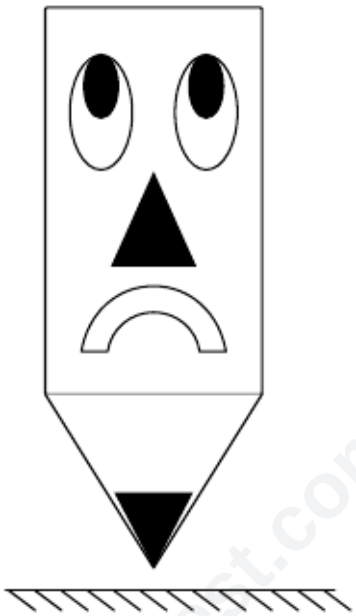


(d)



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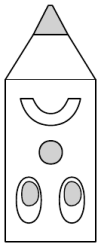
Q36. Select the correct image of the given figure from the options:



(a)



(b)



(c)



(d)



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Q37. Four numbers have been given below, out of which three are alike in some manner and one is different. Select the number that is different from the rest.

132, 17523, 3164, 2695

(a) 132
(b) 3164
(c) 2695
(d) 17523

Q38. Select the option in which the numbers are related in the same way as are the numbers in the given set.

(13, 133, 6)

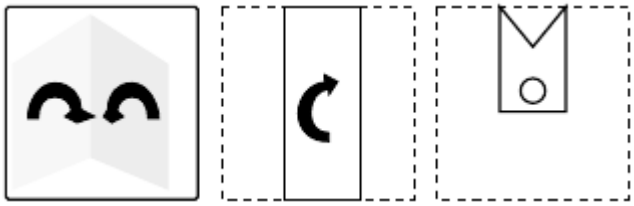
(a) (11, 122, 2)
(b) (10, 8, 6)
(c) (3, 4, 2)
(d) (9, 91, 4)

Q39. If '+' mean 'multiplication', '×' means 'division', '÷' means 'subtraction', and '-' means 'addition', then find the value of the following expression.

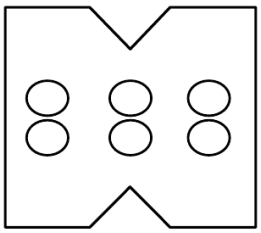
48 ÷ 12 × 3 - 6 + 3

(a) 150
(b) 9
(c) 62
(d) 30

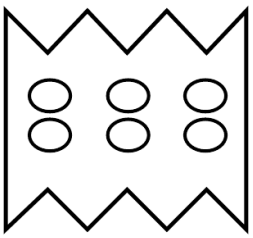
Q40. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper when unfolded?



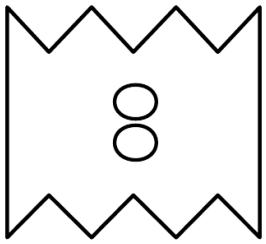
(a)



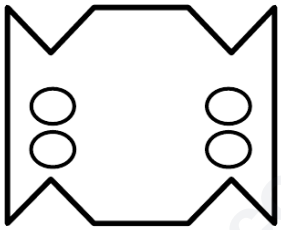
(b)



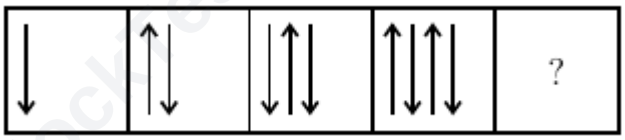
(c)



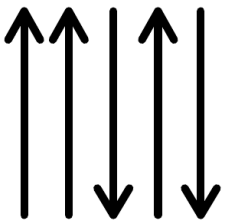
(d)



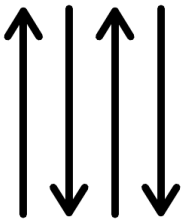
Q41. Select the option figure that can replace the question mark (?) in the following series.



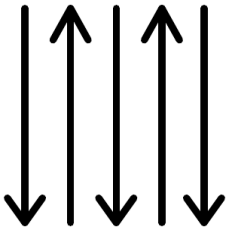
(a)



(b)

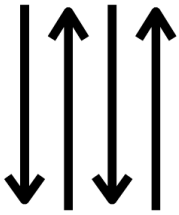


(c)



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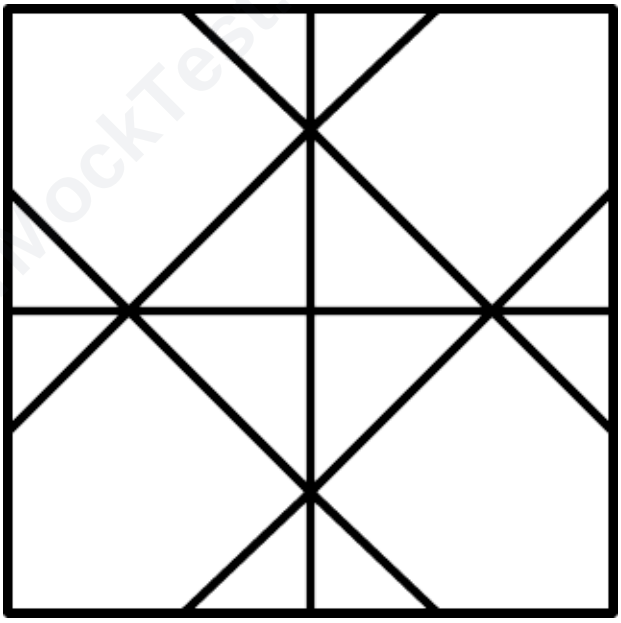
(d)



Q42. Four words have been given below, out of which three are alike in some manner and one is different. Select the odd one.

(a) Kabaddi
(b) Football
(c) Hockey
(d) Cricket

Q43. How many triangles are there in the given figure?



(a) 20
(b) 24
(c) 16
(d) 28

Q44. Select the option in which the numbers are related in the same way as are the numbers in the given set.

(23, 59, 18)

(a) (71, 83, 21)
(b) (43, 59, 67)
(c) (24, 68, 46)
(d) (9, 92, 24)

Q45. Select the number that can replace the question mark (?) in the following series.

13, 16, 20, 25, 31, ?

(a) 38
(b) 48
(c) 37
(d) 39

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Q46. Select the option that is related to the third number in the same way as the second is related to the first number.

36 : 27 :: 16 : ?

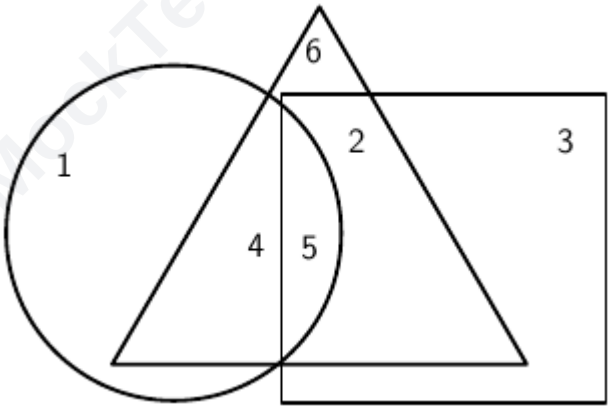
(a) 64
(b) 124
(c) 8
(d) 125

Q47. Four letter - cluster have been given, out of which three are alike in some manner and one is different. Select the odd letter - cluster.

CEG, DFI, HJL, KMO

(a) KMO
(b) CEG
(c) HJL
(d) DFI

Q48. In the Venn diagram below, the 'Circle' represents 'boys'; the 'Triangle' represents 'married', and the 'Square' represents 'the persons who own pets'. Then select the area which represents boys who are married but do not own pets?



(a) 5
(b) 6
(c) 4
(d) 2

Q49. Select the option that represents the words in a logical sequence.

(a) Mouse - Peanut - Eagle - Snake
(b) Mouse - Snake - Peanut - Eagle
(c) Peanut - Mouse - Snake - Eagle
(d) Eagle - Snake - Peanut - Mouse

Q50. Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

ac_b_ac_ _aa_d_a_cd_ _

(a) acbdcdbcb
(b) dadbcbaba
(c) cbdcabada
(d) bcdbcdaba

QUANTITATIVE APTITUDE

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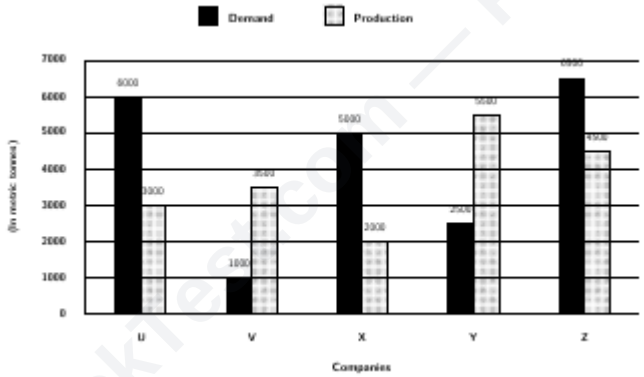
Q51. What is the value of

-77 + 800 ÷ [83 - {8 × 9 + (18 - 3 × 5)}] = ?

(a) 25
(b) 26
(c) 24
(d) 23

Q52. Study the graph and answer the question that follows.

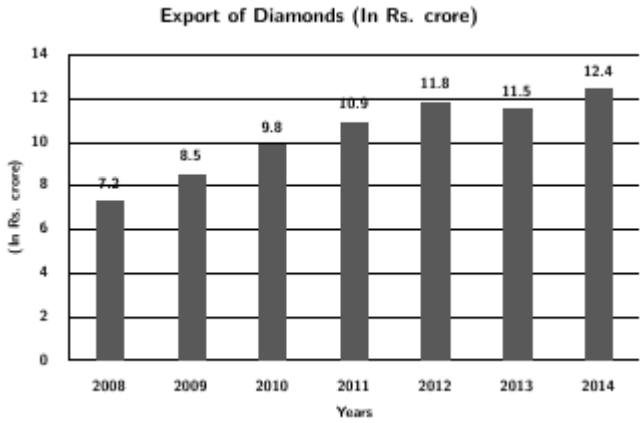
The chart represents the demand and production of a certain item (in metric tonnes) for five companies U, V, X, Y and Z.



If p% of the demand of the item for company U is equal to the production for company Z, then p is equal to:

(a) 65
(b) 85
(c) 55
(d) 75

Q53. Study the following bar graph and answer the question that follows.



In which year was the maximum percentage increase in diamond exports compared to the previous year?

(a) 2014
(b) 2009
(c) 2010
(d) 2012

Q54. At simple interest Gaurav borrows Rs. 1,500 from Sandeep at the rate of 14% per annum. What amount of money should Gaurav pay to Sandeep after 1 year to clear the debt?

(a) Rs. 1,700
(b) Rs. 1,710
(c) Rs. 1,705
(d) Rs. 1,715

Q55. If (a + 3b) : (2a + 4b) = 3 : 5, then (a - b) : (a + b) is equal to:

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

Q56. A person bought 60 books for Rs. 60 each. He sold 50 of them at a loss of 4%. At what per cent profit should be sell the remaining books so that he gains 5% in the entire transaction?

(a) 60%
(b) 30%
(c) 40%
(d) 50%

Q57. The side ST of ΔRST is produced to P. If angle RTP = 115° and angle S = 2/3 angle R, then the measure of angle R is:

(a) 67°
(b) 66°
(c) 69°
(d) 68°

Q58. The average age of a man and his son is 60 years. The ratio of their ages is 13 : 7, respectively. What is the son's age?

(a) 41 years
(b) 40 years
(c) 43 years
(d) 42 years

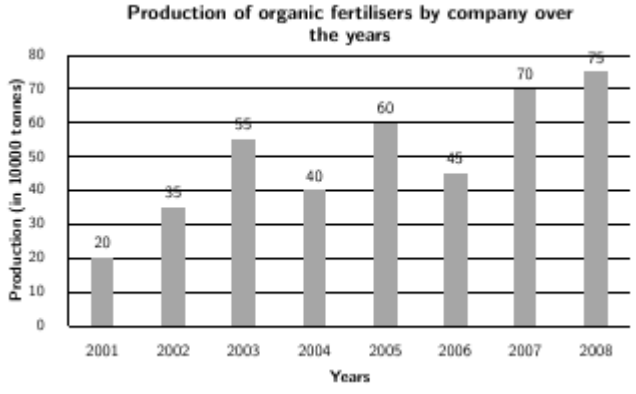
Q59. Antony and Vikash together can complete a piece of work in 20 days and Vikash alone can complete it in 25 days. In how many days can Antony alone complete the same work?

(a) 110 days
(b) 80 days
(c) 100 days
(d) 90 days

Q60. How many minutes does Shyam take to cover a distance of 500 m if he runs at a speed of 30 km/h?

(a) 1 1/2
(b) 2 1/2
(c) 2
(d) 1

Q61. Study the bar graph and answer the question that follows.



The ratio of the total production of organic fertilisers by the company in the year 2005, 2006 and 2008 to the total production in the years 2001, 2002, 2003 and 2004, is:

(a) 5 : 6

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

Q62. Study the following bar graph and answer the question that follows.



In which of the following pairs of years, the average export of diamonds was closest to Rs. 12 crores?

(a) 2010 and 2011
(b) 2013 and 2014
(c) 2011 and 2012
(d) 2012 and 2013

Q63. Richa invests in mutual funds a sum of Rs. 5,59,968, which is 19% of her annual income. What is her monthly income?

(a) Rs. 4,45,600
(b) Rs. 2,45,600
(c) Rs. 3,45,600
(d) Rs. 1,45,600

Q64. Two circles with centers P and Q of radii 7 cm nd 3 cm, respectively, touch each other externally at a point A. BC is a direct common tangent to these two circles where B and C are the points on the circles respectively. The length of BC is:

(a) $\sqrt{21}$ cm
(b) $3\sqrt{21}$ cm
(c) $2\sqrt{21}$ cm
(d) $4\sqrt{21}$ cm

Q65. If cot A = tan(2A - 45°), A is an acute angle then tan A is equal to:

(a) $\sqrt{3}$
(b) 0
(c) 1
(d) 1/2

Q66. If the value of sec B + tan B = r, then the value of sec B - tan B is equal to:

(a) 0
(b) -r
(c) 1/r
(d) r^2

Q67. If $x^3 + 27y^3 + 64z^3 = 36xyz$, then the relationship between x, y and z is

(a) x + 3y = 4z
(b) x + y + z = 0
(c) x - 3y + 4z = 0
(d) x + 3y + 4z = 0

Q68. The value of $\sin^2 38° - \cos^2 52°$ is:

(a) √2
(b) 1
(c) 0
(d) 1/√2

Q69. A single discount equivalent to a discount series of 5%, 10%, 15% and 20% is:

(a) 43.86%
(b) 42.86%
(c) 40.86%
(d) 41.86%

Q70. 2^(25) + 2^(26) + 2^(27) is divisible by:

(a) 9
(b) 6
(c) 5
(d) 7

Q71. If a + 2b = 10 and 2ab = 9, then |a - 2b| is equal to:

(a) 4
(b) 8
(c) 2
(d) 6

Q72. If the breadth and perimeter of a rectangle are in the ratio 1 : 8 and the area of rectangle is 363 cm^2, then the breadth of the rectangle is:

(a) 11 cm
(b) 13 cm
(c) 12 cm
(d) 10 cm

Q73. The tangent at a point A of a circle with centre O intersects the diameter PQ of the circle (when extended) at the point B. If angle BAP = 125°, then angle AQP is equal to:

(a) 45°
(b) 55°
(c) 60°
(d) 50°

Q74. If $4x^2 + y^2 = 40$ and $xy = 6$, $(x > 0, y > 0)$ then the value of $2x + y$ is

(a) 4
(b) 24
(c) 8
(d) 16

Q75. The centroid of an equilateral triangle ΔPQR is L. If PQ = 18 cm, then the length of PL is:

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

GENERAL AWARENESS

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Q76. The Indian Government annexed _____ in 1948 under the code name 'Operation Polo'.

(a) Mysore
(b) Gwalior
(c) Hyderabad
(d) Baroda

Q77. The Bandhavgarh Tiger Reserve is located in the state of _____.

(a) Rajasthan
(b) Madhya Pradesh
(c) Andhra Pradesh
(d) Uttarakhand

Q78. Which of the following sites does NOT feature in the United Nations' World Heritage List as of June 2020?

(a) Elephanta Caves
(b) Ellora Caves
(c) Ajanta Caves
(d) Karla Caves

Q79. The _____ festival is celebrated by the Ahom people of Assam on 31st January every year in memory of the departed.

(a) Me-Dam-Me-Phi
(b) Lampra Puja
(c) TirthaMukh
(d) Ashokastami

Q80. The sino-artrialnode is located in the _____.

(a) heart
(b) brain
(c) bladder
(d) stomach

Q81. In May 2020, the Government of India raised the net borrowing limit for state governments to _____% of the gross state domestic product (GSDP).

(a) 3
(b) 10
(c) 7
(d) 5

Q82. Who has developed the Automatically Programmable Tool (APT)?

(a) Gary Kildall
(b) Jonathan Fletcher
(c) Ralph H Baer
(d) Douglas T Ross

Q83. Which of the following states has one of the richest monazite deposits in India?

(a) Gujarat
(b) Kerala
(c) Rajasthan
(d) Jharkhand

Q84. 1 Petabyte (PB) = 1024 _____.

(a) Zettabytes (ZB)
(b) Exabytes (EB)
(c) Terabytes (TB)
(d) Gigabytes (GB)

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Q85. Yadgir, Bidar and Gadag are districts are in the state of _____.

(a) Tamil Nadu
(b) Madhya Pradesh
(c) Kerala
(d) Karnataka

Q86. Inscriptions composed in praise of kings of ancient India are known as _____.

(a) Tripitakas
(b) Sutras
(c) Prashastis
(d) Jatakas

Q87. 'FIR Aapke Dwar', an initiative whereby police officials would visit homes of victims to register a First Information Report (FIR), was launched in the state of _____ in May 2020.

(a) Bihar
(b) Madhya Pradesh
(c) Uttar Pradesh
(d) Maharashtra

Q88. Name the first Chief Scientist of the public health division at the World Health Organisation.

(a) Dr. Zsuzsanna Jakab
(b) Dr. Harsh Vardhan
(c) Dr. Michael Ryan
(d) Dr. Soumya Swaminathan

Q89. Who was India's first Chief of Defence Staff?

(a) Gopal Gurunath Bewoor
(b) Ajit Doval
(c) Bipin Rawat
(d) Sam Maneckshaw

Q90. The Maharaja of _____ was the first Indian cricketer to serve as President of the Board of control for Cricket in India (BCCI).

(a) Vizianagaram
(b) Rewa
(c) Baroda
(d) Mysore

Q91. Locomotion in _____ takes place with the help of a muscular foot.

(a) snails
(b) jellyfish
(c) sea urchins
(d) earthworms

Q92. As of April 2020, _____ holds the record for delivering the most number of balls by any woman cricketer in Women's test history.

(a) Anjum Chopra
(b) Diana Edulji
(c) Harmanpreet Kaur
(d) Mithali Raj

Q93. Depression is a _____ disorder.

(a) somatoform
(b) dissociative
(c) schizophrenic

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(d) mood

Q94. _____ was a mentor to both, Mahatma Gandhi and Mohammed Ali Jinnah.

(a) Rabindranath Tagore
(b) Lala Lajpat Rai
(c) Gopal Krishna Gokhale
(d) Bal Gangadhar Tilak

Q95. Which of the following is an example of a terrestrial natural disaster?

(a) Blizzard
(b) Tornado
(c) Thunderstorm
(d) Landslide

Q96. _____ is a traditional Indian sport, whereby athletes perform various types of gymnastics moves and hold various poses on a vertical wooden pole.

(a) Mallakhamb
(b) Yubi Lakpi
(c) Nadan Panthu Kali
(d) Kalaripayattu

Q97. Which of the following states was declared as the cleanest state in Swachh Survekshan 2019?

(a) Maharashtra
(b) Chhattisgarh
(c) Jharkhand
(d) Uttarakhand

Q98. The first Backward Classes Commission of India was headed by _____.

(a) Nanaji Deshmukh
(b) Lokmanya Tilak
(c) Gopal Krishna Gokhale
(d) Kaka Kalelkar

Q99. What was the theme of International Nurses Day in 2020?

(a) Nursing the World to Health
(b) Achieving the Sustainable Development Goals
(c) Health is a Human Right
(d) Health for All

Q100. With which bank has Ashok Leyland, the commercial vehicle brand, tied up in November 2019 for vehicle loans for a period of 2 years?

(a) HDFC Bank
(b) ICICI Bank
(c) Punjab National Bank
(d) State Bank of India

ANSWER KEY

1	d	2	a	3	a	4	a	5	b	6	c	7	a	8	b	9	d	10	a
11	d	12	a	13	a	14	b	15	a	16	c	17	a	18	b	19	c	20	d
21	c	22	c	23	d	24	c	25	a	26	b	27	d	28	d	29	d	30	b
31	a	32	c	33	a	34	d	35	d	36	c	37	b	38	d	39	c	40	b
41	c	42	a	43	b	44	a	45	a	46	c	47	d	48	c	49	c	50	b

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51	d	52	d	53	b	54	b	55	d	56	d	57	c	58	d	59	c	60	d
61	c	62	b	63	b	64	c	65	c	66	c	67	d	68	c	69	d	70	d
71	b	72	a	73	b	74	c	75	b	76	c	77	b	78	d	79	a	80	a
81	d	82	d	83	b	84	c	85	d	86	c	87	b	88	d	89	c	90	a
91	a	92	b	93	d	94	c	95	d	96	a	97	b	98	d	99	a	100	b

SOLUTIONS

Q1. Answer: (d) DBAC

The correct answer is 'DBAC'.

Key Points

• The sentence 'D' is independent of any other sentences as it is introducing the first step of "purchasing a product". Hence, 'D' is the first part.

• The next sentence is 'B' as the next step is "to select the brand of the product". Hence, 'B' follows 'D'.

• The next sentence is 'A' as the next step is "to add the selected product in cart". Hence, 'A' follows 'B'.

• The final sentence is 'C' as it is the final step "to enter card details for final payment of the product". Hence, the sentence 'C' is the last sentence.

After rearranging the sentences: Look for the product you want to purchase. Select the brand you like. Add the product to your shopping cart. Enter the card details and buy the product online.

Important Points

• Important Rules to Solve the Para Jumbles:

• Read the sentences attentively and try to comprehend the idea or theme of the sentence and eliminate the irrelevant options.

• Try to identify the opening (independent sentence) and closing sentences (concluding sentence).

• Try to identify the mandatory pairs. Two sentences can be connected through various connectors and other determinants.

Q2. Answer: (a) Offending

The correct answer is 'Offending'.

Key Points

• The word 'Delinquent' means offending by neglect or violation of duty or of law.

• The synonyms of the word 'Delinquent' are "offending, pervert, rogue".

• From the synonym of the given word, we can say that the word 'Offending' is the same in meaning.

• The word 'Offending' means causing problems or displeasure.

Hence, the correct answer is option 1.

Let's see the meaning of other given options-

WORDS	MEANING
Rewarding	providing satisfaction; gratifying
Despairing	showing the loss of all hope
Charming	pleasant or attractive

Additional Information

• The antonyms of the word 'Delinquent' are "saint, precocious, premature".

• Example of 'Delinquent' in a sentence:

• They are carrying out research on the causes of delinquent behaviour among young people.

Q3. Answer: (a) is knowing for

The correct answer is 'is knowing for'.

Key Points

• In the given sentence, the use of the gerund form of the verb 'knowing' is incorrect.

• The given sentence is in the present simple tense of the passive voice.

• The present simple passive format is "is + V3 (known)".

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• Therefore, the past participle form of the verb 'known' should be used in place of 'knowing'.

Hence, the correct answer is option 1.

Correct Sentence: The old woman in our locality is known for her hot temper.

Q4. Answer: (a) Trivial

The correct answer is 'Trivial'.

Key Points

• The word 'Formidable' means causing fear.

• Example: The defending champion displayed a formidable performance, easily defeating all opponents and securing another victory.

• The antonyms of the word 'Formidable' are "trivial, insignificant, unimportant".

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

• The word 'Trivial' means concerned only with trifling or unimportant things.

• Example: The professor dismissed the student's question as trivial and not worthy of further discussion.

Hence, the correct answer is option 1.

Additional Information

• Let's see the meaning of other given options:

WORDS	MEANING	Example
Scary	frightening; causing fear	The horror movie had many scary scenes that made the audience jump out of their seats in fear.
Appalling	causing shock or dismay; horrific	The news of the natural disaster was truly appalling, with widespread destruction and loss of lives.
Dangerous	able or likely to cause harm or injury	The hiker decided not to proceed with the climb as the steep cliffs and slippery conditions made it too dangerous.

• The synonyms of the word 'Formidable' are "scary, appalling, dangerous".

• Example of 'Formidable' in a sentence:

• In the debate, he was a formidable opponent.

Q5. Answer: (b) glorious

The correct answer is 'glorious'.

Key Points

• Let us explore the given options:

• 'Curious' means eager to know or learn something.

• 'Glorious' means having, worthy of or bringing fame or admiration.

• 'Spurious' means false or fake.

• 'Laborious' means requiring considerable effort and time, especially of a task, process or journey

Thus the correct sentence: "Even if I am killed, it will be a glorious death," he thought.

Q6. Answer: (c) matter

The correct answer is 'matter'.

Key Points

• Let us explore the given options:

• 'Place' means a particular position or point in space.

• 'Difference' means a point or way in which people or things are not the same.

• 'Matter' means an affair or situation under consideration.

• 'Time' means an indefinite period.

Thus the correct phrase: "...in a matter of three hours."

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Q7. Answer: (a) fight

The correct answer is 'fight'.

Key Points

• Let us explore the given options:

• 'Fight' means to quarrel or argue.

• 'Think' means to have a particular opinion, belief, or idea about someone or something.

• 'Figure' means to play a significant role in a situation or event.

• 'Participate' means to take part in an action or endeavour.

Thus the correct phrase: He was going to fight three duels...

Q8. Answer: (b) situation

The correct answer is 'situation'.

Key Points

• Let us explore the given options:

• 'Relation' means the way in which two or more concepts, objects or people are connected.

• 'Situation' means a set of circumstances in which one finds oneself.

• 'Location' means a particular place or position.

• 'Station' means a place or building where a specified activity or service is based.

• 'A difficult situation' means formal involved in a complicated or unpleasant situation that it is difficult to escape from

Thus the complete sentence: Tom found himself in a difficult situation.

Q9. Answer: (d) another

The correct answer is 'another'.

Key Points

• Let us explore the given options:

• 'Other' means the second one of two people or things. 'Other' is used with uncountable and plural nouns.

• 'Self' is used to refer to oneself or someone else.

• 'Each' is used to refer to every one of two or more people or things, regarded and identified separately.

• 'Another' is used to refer to someone or something sharing an attribute in common with the person or thing already mentioned. 'Another' is used with a singular noun.

Hence the complete sentence: The two men bowed to one another and parted.

Q10. Answer: (a) either jam or butter

The correct answer is 'either jam or butter'.

Key Points

• In the underlined segment, the use of the correlative conjunction "neither/nor" is incorrect.

• 'Neither/nor' is used in a sentence in the negative sense when you want to say that two or more things are not true.

• If we use 'neither', then make sure the sentence does not have any other negatives preceding it. If we prefer to use a negative, then we have to use 'either'.

• The correlative conjunction "either/or" should be used in place of "neither/nor".

• 'Either/or' is used in a sentence in the affirmative sense when referring to a choice between two possibilities.

• 'Either' is always paired with 'or' and 'neither' is always paired with 'nor'.

• In the given sentence, the Dean is giving the choice that the student can have only one of the two things - jam and butter, but not both jam and butter

Correct Sentence: The Dean said, "You can have either jam or butter, but not both."

Q11. Answer: (d) Peter said that he had broken his glasses.

The correct answer is Peter said that he had broken his glasses.

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 and 'that' is added.

• The past simple tense format 'Subject + V2 (broke) + Object' will be changed into the past perfect tense format 'Subject + had +

V3 (broken) + Object'.

Correct sentence: 'Peter said that he had broken his glasses.'

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)

Q12. Answer: (a) Suddenly becoming enraged

The correct answer is 'Suddenly becoming enraged'.

Key Points

• The given sentence is an idiom. An idiom is a group of words established by usage as having a meaning not deducible from those of the individual words (e.g. over the moon, see the light).

• Given Idiom: Flying off the handle means to become suddenly enraged.

• For example, Linda called me back and apologized for flying off the handle.

Mistake Points

• We may think from the phrase "Flying off the handle" that it is all about flying away, being launched from a handle, but the correct answer is option 1. So be careful while dealing with such questions.

Q13. Answer: (a) Conviencing

The correct answer is 'Conviencing'.

Key Points

• Let us explore the options:

• 'Conviencing': There is no such word in English or we can say that there is some spelling mistake in this word, correct spelling is 'Convincing', which means capable of causing someone to believe that something is true or real.

• 'Commemorate' means to recall and show respect for someone or something.

• 'Conveyance' means the action or process of transporting someone or something from one place to another.

• 'Concussion' means temporary unconsciousness or confusion caused by a blow on the head.

Q14. Answer: (b) come back home

The correct answer is 'come back home'.

Key Points

• In the given sentence, the use of the base form of the verb 'come' is incorrect.

• From the latter part of the sentence, we can easily infer that the given sentence is in the simple past tense.

• The simple past is a verb tense that is used to talk about things that happened or existed before now.

• Therefore, the past tense form of the verb 'came' should be used in place of 'come'.

Correct Sentence: When Harry came back home, he saw blood everywhere.

Q15. Answer: (a) Different

The correct answer is 'Different'.

Key Points

• The word 'Identical' means being one and not another.

• The antonyms of the word 'Identical' are "different, another, other".

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

• The word 'Different' means not the same as another or each other.

Additional Information

• The synonyms of the word 'Identical' are "similar, indistinguishable, corresponding".

• Example of 'Identical' in a sentence:

• The handwriting on both cheques is identical.

Let's see the meaning of other given options-

WORDS	MEANING
Indistinguishable	not able to be identified as different or distinct
Similar	resembling without being identical
Corresponding	match or agree almost exactly

Q16. Answer: (c) The thieves were arrested yesterday by the police.

The correct answer is 'The thieves were arrested yesterday by the police.'

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 'The police' is the subject and 'the thieves' is the object.

• When we convert this sentence into passive voice, the subject 'The police' of the active voice becomes the object, the object 'the thieves' becomes the subject.

• The passive format "were + V3 (arrested)" should be used.

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

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/am/are 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

Q17. Answer: (a) amazed

The correct answer is 'amazed'.

Key Points

• Let us explore the given options:

• 'Amazed' means to surprise someone greatly.

• 'Disturbed' means interfered with the normal arrangement or functioning.

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• 'Angry' means feeling or showing strong annoyance, displeasure or hostility.
• 'Ridiculed' means to subject someone or something to contemptuous and dismissive language or behaviour.

Complete Sentence: The yoga instructor was amazed at the student's flexibility.

Q18. Answer: (b) A flock of sheep

The correct answer is 'A flock of sheep'.

Key Points

• In the underlined segment, the use of the common noun plural form 'Tons' is incorrect.
• The verb 'was' in the given sentence is a singular verb.
• We know that a singular subject will always take a singular verb.
• Therefore, the singular common noun 'A flock' should be used in place of 'Tons'.

Correct Sentence: A flock of sheep was grazing in the field.

Additional Information

• Subjects and verbs must agree with one another in number (singular or plural).
• Thus, if a subject is singular, its verb must also be singular; if a subject is a plural, its verb must also be plural.
• Some animal group names:
• A school of fish
• A herd of rabbits
• A zeal of zebras
• A leap of leopards

Q19. Answer: (c) ACBD

The correct answer is 'ACBD'.

Key Points

• The sentence 'A' is independent of any other sentences as it is introducing the first step of "arresting a thief". Hence, 'A' is the first part.
• The next sentence is 'C' as the next step is "to arrest the thief". Hence, 'C' follows 'A'.
• The next sentence is 'B' as the next step is "of trial in the court". Hence, 'B' follows 'C'.
• The final sentence is 'D' as it is the final step i.e "imprisonment of the thief". Hence, the sentence 'D' is the last sentence.

After rearranging the sentences: The police suspected the man to be a thief. He was soon arrested by the police. Then the trial began in the court. The thief was sentenced to two years' imprisonment.

Important Points

• Important Rules to Solve the Para Jumbles:
• Read the sentences attentively and try to comprehend the idea or theme of the sentence and eliminate the irrelevant options.
• Try to identify the opening (independent sentence) and closing sentences (concluding sentence).
• Try to identify the mandatory pairs. Two sentences can be connected through various connectors and other determinants.

Q20. Answer: (d) Very expensive

The correct answer is 'Very expensive'.

Key Points

• Given Idiom: To cost an arm and a leg means very expensive.
• For example, This cricket kit is really nice, but it cost me an arm and a leg.
• From the given options, the fourth option is the most appropriate meaning of the given idiom.

Mistake Points

• We may think from the phrase "To cost an arm and a leg" that it is all about to give away an arm and a leg, but the correct answer is option 4. So be careful while dealing with such questions.

Additional Information

• The idiom/phrase originates from: This is an American phrase, coined sometime after World War II. Probable reference is to soldiers who had lost their limbs in the war, thus having to pay a very high price for the war.

Q21. Answer: (c) Orifice

The solution is in Hindi. Read it online.

Q22. Answer: (c) Horrendous

The correct answer is 'Horrendous'.

Key Points

• Let us explore the given options:

• 'Heightened' means more intense than normal.

• 'Humane' means having or showing compassion or benevolence.

• 'Horrendous' means extremely unpleasant, horrifying or terrible.

• 'Humorous' means causing lighthearted laughter and amusement.

Q23. Answer: (d) incurring

The correct answer is 'incurring'.

• Let us explore the given options:

• 'Earning' means gaining deservedly in return for one's behaviour or achievements.

• 'Containing' means having or holding someone or something within.

• 'Demanding' means asking authoritatively or brusquely.

• 'Incurring' means becoming subject to something unwelcome or unpleasant as a result of one's own behaviour or actions.

Complete Sentence: The government enterprises were privatized as they were incurring heavy losses on a daily basis.

Q24. Answer: (c) Immense

The correct answer is 'Immense'.

Key Points

• The word 'Prodigious' means unusually large.

• The synonyms of the word 'Prodigious' are "immense, massive, vast".

• From the synonym of the given word, we can say that the word 'Immense' is the same in meaning.

• The word 'Immense' means extremely large or great.

Let's see the meaning of other given options-

WORDS	MEANING
Proud	having or showing a consciousness of one's own dignity
Unimportant	lacking in importance or significance
Exciting	causing great enthusiasm and eagerness

Additional Information

• The antonyms of the word 'Prodigious' are "little, mini, small".

• Example of 'Prodigious' in a sentence:

• Laser discs can store prodigious amounts of information.

Q25. Answer: (a) Voracous

The correct answer is 'Voracous'.

Key Points

• Let us explore the options:

• 'Voracous': There is no such word in English or we can say that there is some spelling mistake in this word, correct spelling is 'Voracious' which means having a very eager approach to an activity.

• 'Valour' means great courage in the face of danger, especially in battle.

• 'Video' means the recording, reproducing or broadcasting of moving visual images.

• 'Voluntary' means done, given or acting of one's own free will.

Q26. Answer: (b) Municipal Commissioner : State Government

Chief Justice is appointed by the President.

Similarly,

Municipal Commissioner is appointed by the State Government.

Hence, Municipal Commissioner : State Government is correct.

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Q27. Answer: (d) uhoen

Given;

salute → iuamet, mango → ?

Logic: Criss cross format. Vowel - next vowel, Consonant - +1

salute → iuamet

Similarly,

mango → uhoen

Hence, mango is coded as uhoen.

Q28. Answer: (d) SRQ

Below is the table showing opposite pairs of letters.

Pattern: The coded letters are the opposite of the letters given.

CDE : XWV

Similarly,

HIJ : SRQ

Hence, SRQ is correct.

Q29. Answer: (d) 602019

Below given table shows the positional values of the letters:

Pattern: The coded digits for each of the words have been obtained by adding and subtracting one to and from the positional value of each letter alternately.

'Wand' → 240153

'Curd' → 420193

Similarly,

Code for the word 'East' will be:

Hence, 602019 is correct.

Q30. Answer: (b) Aunt

According to the given information,

Shraddha says to Sharayu, "Your mother - in - law is my father's mother who is eldest son, but your husband is not my father."

Hence, Sharayu is Aunt of Shraddha.

Q31. Answer: (a) Ranchi

Given: India : Delhi :: Jharkhand : ?

Delhi is the capital city of India.

Similarly,

Ranchi is the capital city of Jharkhand.

Hence, Ranchi is correct.

Q32. Answer: (c) 2

In this of dice, where two same numbers are placed on two different dice, then the remaining third number on respective dice are opposite to each other.

Here, 3 and 1 are common on both the dice.

So, the remaining number 6 and 2 on both the dice are opposite to each other.

Hence, 6 is correct.

Q33. Answer: (a) 30 hrs

Given:

Time taken by inlet pipe to fill a tank = 24 hours

Time taken by leakage to empty half tank = 36 hours

Time taken by leakage to empty full tank = 72 hours

Concept used:

Let capacity of tank is the LCM of time taken by inlet & leakage to fill and empty the whole tank.

Solution:

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Capacity of tank = LCM of (24, 72)
Capacity of tank = 72 Units
Efficiency of inlet pipe = +72 /24 = + 3 units / hr
Efficiency of outlet (leakage) = -72/72 = -1 Unit/hr
Time taken by inlet pipe & leakage to fill half the tank = 36over (3 - 1) = 18 hrs
Time taken by inlet pipe to fill next half of the tank = 36over 3 = 12 hrs
Total time taken to fill the whole tank = 18 + 12
Total time taken to fill the whole tank = 30 hrs
Hence, 30 hours is the correct answer.
Leak at the middle so the effect of Leak always on the Half Tank.
The bottom of tank with water is filled without any leakage because leak point is at middle of tank and leakage occurs while filling upper half of the tank only.
Mistake Points
If the leak is in the midpoint of the base of tank,
The pipe fills 1/24 of the tank in one hour.
The leak empties (1/2)/36 or 1/72 of the tank in 1 hour.
so total water filled in one hour = 1/24 - 1/72 = 2/72 = 1/36.
So the tank gets filled in 36 hours
Actual Question solution by another method.
If the leak is in the midpoint of the wall of tank,
Pipe takes 1/12 of tank in one hour
Leak empties 1/36 of water in 1 hour
So total water filled in one hour = 1/12 - 1/36 = 1/18
So the second half of the tank gets filled in 18 hours and the first half gets filled in 12 hours.
Total time taken is 12 + 18 = 30 hours
Note: Also 30 hours is the answer given by the Official answer key of CHSL.

Q34. Answer: (d) Only conclusion III follow.

The possible venn diagram is as follows:
For conclusions:
I. All my friends are workers → False (All my friends are workers is a possibility but not definite)
II. All workers are my friends → False (All workers are my friends is a possibility but not definite)
III. All my non - worker friends are honest → True (All the friends, who are not workers are honest)
Hence, Only conclusion III follow is correct.

Q35. Answer: (d) [figure]

The below given figure shows the embedded image:
Hence, Option 4 is correct.

Q36. Answer: (c) [figure]

In the case of water image, the upper portion of the figure becomes lower and vice-versa.
Hence, Option 3 is correct.

Q37. Answer: (b) 3164

Given series: 132, 17523, 3164, 2695
Except 3164, all other numbers are completely divisible by 11.
1. 132 ÷ 11 = 12
2. 17523 ÷ 11 = 1593
3. 3164 ÷ 11 = 287.63
4. 2695 ÷ 11 = 245
Hence, 3164 is correct.

Q38. Answer: (d) (9, 91, 4)

Given: (13, 133, 6) → (13 + 6) × 7 = 133

Let us now check through options:

1. (11, 122, 2) → (11 + 2) × 7 = 91 (NOT 122)
2. (10, 8, 6) → (10 + 6) × 7 = 112 (NOT 8)
3. (3, 4, 2) → (3 + 4) × 7 = 49 (NOT 4)
4. (9, 91, 4) → (9 + 4) × 7 = 91

Hence, (9, 91, 4) is correct.

Q39. Answer: (c) 62

Given codes:

Sign	•	×	÷	•
Codes	×	÷	•	•

Given: 48 ÷ 12 × 3 - 6 + 3

48 - 12 ÷ 3 + 6 × 3

48 - 4 + 6 × 3

48 - 4 + 18

66 - 4

62

Hence, 62 is correct.

Q40. Answer: (b) [figure]

The paper, when opened will look like:

Hence, Option 2 is correct.

Q41. Answer: (c) [figure]

Pattern: In each of the figure, one line is added the previous lines change its direction from south to north and vice-versa.

Hence, Option 3 is correct.

Q42. Answer: (a) Kabaddi

The logic followed here is:

Football, Hockey, and Cricket are played by the Eleven Players.

Whereas,

Kabbadi is played by the only Seven Players.

Hence, the correct answer is "Kabaddi".

Q43. Answer: (b) 24

Given figure:

TRICK:

When a triangle is divided into 2 bases, then we simply number the triangle and add those number.

In triangle IJR: There are two bases i.e. RIB (1) and RJB (2)

So, we'll add these written numbers: 1 + 2 = 3

This means, in triangle RIJ, we have 3 triangles i.e. RIB, RJB and RIJ

Similarly, we have 3 more such triangles i.e. OPQ, LSK and NTM

Therefore, total number of triangles = 3 × 4 = 12 triangles

Now, when a square is divided into four equal parts, then we simply add those squares and multiply it by 2.

In square QRST, we have four triangles i.e. QUR, RUS, SUT and TUQ

Thus, total number of triangles = 4 × 2 = 8 triangles

Now, some other triangles i.e. AOJ, PGM, NEK, ICL = 4 triangles

Thus, total number of triangles = 12 + 8 + 4 = 24 triangles

Hence, 24 is correct.

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Q44. Answer: (a) (71, 83, 21)

Given set,

(23, 59, 18)

Logic: Sum of digits of first term is the first digit of Middle term and sum of digit of last term is the second digit of Middle term.

2 + 3 = 5

1 + 8 = 9

59

Similarly,

1) (71, 83, 21)

7 + 1 = 8

2 + 1 = 3

83 = 83

2) (43, 59, 67)

4 + 3 = 7

6 + 7 = 13

713 ≠ 59

3) (24, 68, 46)

2 + 4 = 6

4 + 6 = 10

610 ≠ 68

4) (9, 92, 24)

9 = 9

2 + 4 = 6

96 ≠ 92

Hence, the answer is (71, 83, 21).

Q45. Answer: (a) 38

Given: 13, 16, 20, 25, 31, ?

13 + 3 = 16

16 + 4 = 20

20 + 5 = 25

25 + 6 = 31

31 + 7 = 38

Hence, 38 is correct.

Q46. Answer: (c) 8

Given: 36 : 27 :: 16 : ?

$36 \rightarrow (6)^2 : (3)^3$ → Second number is cube of the number, which is half of the under root of the first number.

Similarly,

$16 \rightarrow (4)^2 : (2)^3$ → Second number is cube of the number, which is half of the under root of the first number.

Hence, 8 is correct.

Q47. Answer: (d) DFI

Given: CEG, DFI, HJL, KMO

1. KMO → K + 2 = M, M + 2 = O

2. CEG → C + 2 = E, E + 2 = G

3. HJL → H + 2 = J, J + 2 = L

4. DFI → D + 2 = F, F +3 = I (D + 2 = F, F + 2 = H)

Hence, DFI is correct.

Q48. Answer: (c) 4

The diagram represents the boys, married boys and the persons who own pets. And, the shaded portion shows the boys who are married but do not own pets:

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Hence, 4 is correct.

Q49. Answer: (c) Peanut - Mouse - Snake - Eagle

The correct logical order is as follows:
Peanut - Mouse - Snake - Eagle
Peanut is eaten by Mouse.
Mouse is by Snake.
Snake is eaten by Eagle.
Hence, Peanut - Mouse - Snake - Eagle is correct.

Q50. Answer: (b) dadbcbaba

a c _ b _ a c _ _ a a _ d _ a _ c d _ _
Logic - acdba is repeated four times
a c d b a / a c d b a / a c d b a / a c d b a
Hence, dadbcbaba is the correct answer.

Q51. Answer: (d) 23

Given:
• 77 + 800 ÷ [83 - {8 × 9 + (18 - 3 × 5)}]
Concept Used:
Follow the BODMAS rule as given in the table below
Calculation:
Considering the given equation expression
• 77 + 800 ÷ [83 - {8 × 9 + (18 - 3 × 5)}]
=> -77 + 800 ÷ [83 - {8 × 9 + (18 - 15)}]
=> -77 + 800 ÷ [83 - {72 + 3}]
=> -77 + 800 ÷ 8
=> -77 + 100
=> 23
Therefore Option 4 is the correct answer.

Q52. Answer: (d) 75

Given:
Demand of company U = 6000
Production of company U = 3000
Demand of company V = 1000
Production of company V = 3500
Demand of company X = 5000
Production of company X = 2000
Demand of company Y = 2500
Production of company Y = 5500
Demand of company Z = 6500
Production of company Z = 4500
Calculation:
p% of the demand of the item for company U is equal to the production for company Z
Demand of the company U = 6000
Production of the company Z = 4500
=> (6000 × p)/100 = 4500
=> p = 75
Therefore The correct answer is 75.

Q53. Answer: (b) 2009

Given:
Export of diamond in 2008 = 7.2 cr

Export of diamond in 2009 = 8.5 cr
Export of diamond in 2010 = 9.8 cr
Export of diamond in 2011 = 10.9 cr
Export of diamond in 2012 = 11.8 cr.
Export of diamond in 2013 = 11.5 cr.
Export of diamond in 2014 = 12.4 cr.
Formula used:
)(% increase = (final demand - initial demand)/(initial demand) × 100
Calculation:
Increase in demand from 2008 to 2009 = 8.5 - 7.2 = 1.3
Increase in demand from 2009 to 2010 = 9.8 - 8.5 = 1.3
Increase in demand from 2010 to 2011 = 10.9 - 9.8 = 1.1
Increase in demand from 2011 to 2012 = 11.8 - 10.9 = 0.9
Increase in demand from 2012 to 2013 = 11.5 - 11.8 = -0.3
Increase in demand from 2013 to 2014 = 12.4 - 11.5= 0.9
Max increase 1) from 2008 to 2009 = 1.3
2) from 2009 to 2010 = 1.3
From 2008 to 2009 % increase = 1.3/7.2 × 100 = 18.05%
From 2009 to 2010 % increase = 1.3/8.5 × 100 = 15.29%
Therefore The correct answer is 2009.

Q54. Answer: (b) Rs. 1,710

Given:
P = 1500 Rs.
R = 14%
T = 1 year
Formula used :
Amount = (P × (100 + R × T))/100
Calculation:
Amount = (1500 × (100 + 14 × 1))/100
=> 15 × 114
=> Rs. 1,710
Therefore The amount is Rs. 1,710.

Q55. Answer: (d) 1 : 2

Given:
(a + 3b) : (2a + 4b) = 3 : 5
Formula used:
if a/b = c/d
then, (a - b)/(a + b) = (c - d)/(c + d)
Calculation:
((a + 3b))/((2a + 4b)) = 3/5
=> 5 × (a + 3b) = 3 × (2a + 4b)
=> 5a + 15b = 6a + 12b
=> a = 3b
=> a/b = 3/1
=> (a - b)/(a + b) = (3 - 1)/(3 + 1)
=> (a - b)/(a + b) = 2/4 = 1/2
Therefore (a - b) : (a + b) = 1 : 2

Q56. Answer: (d) 50%

Ans: 4
Given:

A person bought 60 books for Rs. 60 each.
He sold 50 of them at a loss of 4%.
Formula used:
Cost price × (100 + Profit %)/100 = Selling price
Also, Cost price × (100 - Loss %)/100 = Selling price
Calculation:
Cost price of 60 books = 60 × 60 = 3600 Rs.
Cost price of 50 books = 50 × 60 = 3000 Rs.
Selling price for 50 books = 3000 × 96/100 = 2880 Rs.
Selling price for the whole transaction, when all books sold at 5% profit = 3600 × 105/100 = 3780 Rs.
Remaining books no. is = 10
Cost price of 10 books = 60 × 10 = 600 Rs.
Selling price for the 10 books to fulfill the condition of 5% profit on whole transaction = 3780 - 2880 = 900 Rs.
Profit on remaining 10 books = (900 - 600)/600 × 100 = 300/600 × 100 = 50%
Therefore Remaining 10 books should be sold at 50% profit
Shortcut Trick
Let profit at remaining 10 books is A%
Fraction of 50 books in 60 books = 5/6
Fraction of 10 books in 60 books = 1/6
Fraction of one deal × profit/loss in % + Fraction of other deal × profit/loss in % = Final result (profit/loss)
we will take (+)ve sign for profit and (-)ve sign for loss
=> 5/6 × (-4) + 1/6 × A = 5
=> A/6 = 5 + 20/6
=> A/6 = 50/6
=> A = 50%

Q57. Answer: (c) 69°

Ans:3
Given:
The side ST of ΔRST is produced to P.
angle RTP = 115°, angle S = 2/3 angle R
Formula used:
The sum of two interior angles = the opposite exterior angle
Calculation:
The sum of two interior angles is equal to the opposite exterior angle.
=> angle S + angle R = 115°
=> 2/3 angle R + angle R = 115°
=> 5/3 angle R = 115°
=> angle R = 69°
Therefore value of angle R is 69°

Q58. Answer: (d) 42 years

Given:
The average age of a man and his son is 60 years.
The ratio of their ages is 13 : 7, respectively.
Formula used:
Average = (Total sum)/(Total number)
Share in ratio = (individual value in ratio)/(Total sum of ratio values)
Calculation:
Sum of ages of a man and his son = 60 × 2 = 120 years
The ratio of their ages = 13: 7
=> 7/20 × 120 = 42 years

Therefore Age of son is 42 years.

Q59. Answer: (c) 100 days

Ans: 3
Given:
Antony and Vikash together can complete a piece of work in 20 days.
Vikash alone can complete it in 25 days.
Formula used:
one day work = 1/total days taken to complete the work
Calculation:
Antony's and Vikash's one day work = 1/20
Vikash's one day work = 1/25
Antony's one day work = 1/20 - 1/25
=> (5-4)/100 = 1/100
Therefore Antony will complete the work in 100 days.

Q60. Answer: (d) 1

Ans: 4
Given:
distance = 500m, speed = 30 km/h
Formula used:
Time = Distance/Speed
Calculation:
First, we change speed in meter/minute
=> S = (30 × 1000)/60
=> 500 meter/minute
Time = Distance/Speed
=> 500/500 = 1 minute
Therefore Shyam will take 1 minute to cover this distance.

Q61. Answer: (c) 6 : 5

Total production of organic fertilizers by the company in the year 2005 = 60
Total production of organic fertilizers by the company in the year 2006 = 45
Total production of organic fertilizers by the company in the year 2008 = 75
Total = 60 + 45 + 75 = 180
Total production of organic fertilizers by the company in the year 2001 = 20
Total production of organic fertilizers by the company in the year 2002 = 35
Total production of organic fertilizers by the company in the year 2003 = 55
Total production of organic fertilizers by the company in the year 2004 = 40
Total = 20 + 35 + 55 + 40 = 150
Ratio = 180 : 150 = 6: 5

Q62. Answer: (b) 2013 and 2014

Year	Total export	Average export
2008 - 2009	15.7	7.85
2009 - 2010	18.3	9.15
2010 - 2011	20.7	10.35
2011 - 2012	22.7	11.35
2012 - 2013	23.3	11.65
2013 - 2014	23.9	11.95

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Calculation
In 2010 and 2011 total export of diamond = 9.8 + 10.9
=> 20.7
Average export of diamond = 20.7/2
=> 10.35
In 2011 and 2012 export of diamond = 10.9 + 11.8
=> 22.7
Average export of diamond= 22.7/2
=> 11.35
In 2012 and 2013 export of diamond = 11.8 + 11.5
=> 23.9
Average export of diamond = 23.9/2
=> 11.65
In 2013 and 2014 total export of diamond = 11.5 + 12.4
=> 23.9
Average export of diamond = 23.9/2
=> 11.95

Q63. Answer: (b) Rs. 2,45,600

Given
Richa invests 5,59,968 in mutual fund. Which is 19% of annual income of Richa
Calculation
Let annual income income of Richa be 100%
Therefore 19% = Rs.5,59,968
=> 100% = Rs.2,947,200
=> monthly income of Richa = Rs.2947200/12
=> Rs.2,45,600
Therefore The correct answer is Rs.2,45,600.

Q64. Answer: (c) 2 √21 cm

Given
The radii of both circles are 3 cm and 7 cm
Both circles touch each other at point A externally
BC is the common tangent of both circles.
Calculation
Join P to Q and B. Join Q to C. Draw PM perpendicular to CQ.
Now PM = BC, as they are opposite sides of rectangle PMBC.
=> PQ = PA +AM
=> 7 cm + 3 cm
=> 10 cm.
=> QM = CQ – CM
=> 7 cm – 3cm
=> 4 cm
=> PM = √{(PQ)² - (QM)²}
=> √{(10)² - (4)²}
=> 2√ 21
=> PM = BC
=> 2√ 21 cm
Therefore The correct answer is 2√ 21 cm.

Q65. Answer: (c) 1

Given
cot A = tan(2A - 45°)

Concept

cot A = tan(90° - A)

Calculation

=> cot A = tan(2A - 45°)

=> tan(90° - A) = tan(2A - 45°)

=> 90° - A = 2A - 45°

=> A = 45°

=> tan A = tan 45° = 1

Therefore The correct answer is 1.

Q66. Answer: (c) 1/r

Given:

sec B + tan B = r

Formula Used:

$\sec^2\theta - \tan^2\theta = 1$

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

Calculation:

$\sec^2 B - \tan^2 B = 1$

=> (sec B + tan B) (sec B - tan B) = 1

=> (r) (sec B - tan B) = 1

=> sec B - tan B = 1/r

Therefore Value sec B + tan B = r then sec B - tan B is 1/r.

Q67. Answer: (d) x + 3y + 4z = 0

Given:

$x^3 + 27y^3 + 64z^3 = 36xyz$

Formula Used:

If a + b + c = 0 then a3 + b3 + c3 = 3abc

Calculation:

$x^3 + (3y)^3 + (4z)^3 = 3 \times (x) \times (3y) \times (4z)$

=> x + 3y + 4z = 0

Therefore If $x^3 + 27y^3 + 64z^3 = 36xyz$ then x + 3y + 4z = 0

Q68. Answer: (c) 0

Given:

$\sin^2 38° - \cos^2 52°$

Concept Used:

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

$\sin(90° - \theta) = \cos\theta$

Calculation:

$\sin^2 38° - \cos^2 52° = \sin^2 38° - \sin^2(90° - 52°)$

=> $\sin^2 38° - \sin^2 38°$

=> 0

=> $\sin^2 38° - \cos^2 52° = 0$

Therefore $\sin^2 38° - \cos^2 52° = 0$

Q69. Answer: (d) 41.86%

Given:

A series of Discounts 5%, 10%, 15%, 20%

Formula Used:

Equivalent = A + B + (AB)/100

Calculation:

Discount is written as negative

Equivalent discount for 5% and 10% = (– 5) + (–10) + {(– 5) × (– 10)}/100
=> (– 5) + (– 10) + (0.5)
=> (– 15 + 0.5)
=> (– 14.5)
=> Equivalent Discount for 5% and 10% = 14.5%
Now, Equivalent discount for 14.5% and 15% = (– 14.5) + (– 15) + {(– 14.5) × (– 15)}/100
=> (– 14.5) + (– 15) + (2.175)
=> (– 29.5 + 2.175)
=> (– 27.325)
=> Equivalent Discount for 5%, 10% and 15% = 27.325%
Now, Equivalent discount for 27.325% and 20% = (– 27.325) + (– 20) + {(– 27.325) × (– 20)}/100
=> (– 27.325) + (– 20) + (5.465)
=> (– 47.325 + 5.465)
=> (– 41.86)
=> Equivalent Discount for 5%, 10%, 15% and 20% = 41.86%
Therefore A single discount equivalent to a discount series of 5%, 10%, 15% and 20% is 41.86%.
Shortcut TrickCalculation:

Discount	M.P	S.P
D1 (5%)	20	19
D2 (10%)	10	9
D3 (15%)	20	17
D4 (20%)	5	4
Overall (D%)	20000	11628

Overall discount = (20000 - 11628) = Rs. 8372
Discount % = (8372/20000) × 100 = 41.86%
Therefore The correct answer is 41.86%.

Q70. Answer: (d) 7

Given:
2^(25) + 2^(26) + 2^(27)
Calculation:
=> 2^(25) + 2^(26) + 2^(27)
=> 2^(25)(1 + 2^1 + 2^2)
=> 2^(25)(1 + 2 + 4)
=> 2^(25)(7)
Hence, it is divisible by 7 because 7 is one of the factor/multiple of this expression.
Therefore 2^(25) + 2^(26) + 2^(27) is divisible by 7.

Q71. Answer: (b) 8

Given:
a + 2b = 10 and 2ab = 9
Formula used:
$(a + b)^2 = a^2 + b^2 + 2ab$
$(a - b)^2 = a^2 + b^2 – 2ab$
Calculation:
On squaring both sides of given equation we get,
$(a + 2b)^2 = (10)^2$
=> $(a^2 + 4b^2 + 4ab) = 100$
=> $a^2 + 4b^2 + 18 = 100$
=> $a^2 + 4b^2 = 82$

Now,
(a – 2b)^(2 =)a²+4b² -4ab
Substituting values of a²+ 4b² and 4ab from above
We get,
(a – 2b)² = 82 – 18
=> (a – 2b)^(2 =)64
=> (a – 2b) = ±8
=> |a – 2b| = 8
Therefore The value of |a – 2b| is 8

Q72. Answer: (a) 11 cm

Given:
Ratio of breadth and perimeter of rectangle = 1 : 8
Area of the Given rectangle = 363 cm²
Formula Used:
Perimeter of rectangle = 2(length + breadth)
Area of Rectangle = length × breadth
Calculation:
Let the breadth be 1x and perimeter be 8x
Length of rectangle = l cm
Breadth of rectangle = b cm
2(l + b) = 8x
=> 2(l + x) = 8x
=> 2l = 8x – 2x = 6x
=> l = 3x cm
Now,
3x × x = 363 cm²
=> 3x²= 363 cm²
=> x = √121 cm
=> x = 11 cm
Since x is the value of breadth of rectangle therefore,
Breadth = x = 11 cm
Therefore The Breadth of Rectangle is 11 cm.

Q73. Answer: (b) 55°

Given:
A circle with center O and diameter PQ extended outside the circle to point B
angle BAP = 125°
Concept Used:
Angle formed between radius and tangent of a circle is always 90°
Angles opposite to equal sides are equal.
Sum of two opposite interior angles of a triangle is equal to the opposite exterior angle.
Sum of all angles of triangle is 180°
Calculation:
OA perpendicular to BA (Angle between Radius and Tangent)
angle OAP = angle BAP - angle OAB
=> angle OAP = 125° - 90° = 35°
Since,
OA = OP = OQ (Radius of circle)
So,
angle OAP = angle OPA = 35°
angle AOQ = angle OAP + angle OPA

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=> angle AOQ = 35° + 35° = 70°
In Δ AOQ,
angle AOQ = 70°
angle OAQ = angle OQA (since OA = OQ)
angle AOQ + angle OAQ + angle OQA = 180°
=> 70° + angle OAQ + angle OQA = 180°
=> angle OAQ + angle OQA = 180° - 70° = 110°
=> 2angle OQA = 110°/2 = 55°
Since angle OQA is the same angle as angle AQP
angle AQP = 55°
Therefore The value of angle AQP = 55°

Q74. Answer: (c) 8

Given:
$4x^2 + y^2 = 40$ and $xy = 6$, $(x > 0, y > 0)$
Formula used:
$(a + b)^2 = a^2 + b^2 + 2ab$
Calculation:
$(2x + y)^2 = 4x^2 + y^2 + 4xy$
Since,
$xy = 6$
then
$4xy = 4 \times 6 = 24$
Now,
$(2x + y)^2 = 4x^2 + y^2 + 4xy$
Substituting values of $y^2 + 4x^2$ and $4xy$ from above
We get,
$(2x + y)^2 = 40 + 24$
$\Rightarrow (2x + y)^2 = 64$
$\Rightarrow (2x + y) = \pm 8$
$\Rightarrow (2x + y) = 8$
Therefore The value of $2x + y$ is 8

Q75. Answer: (b) 6√3 cm

Given:
Equilateral triangle PQR with side PQ = 18 cm
Formula Used:
Circumradius of Equilateral triangle = side of equilateral triangle/√3
Concept Used:
Centroid Divide the median in the ratio 2 : 1
All the centers of the Equilateral triangle lie at the same point. Be it circumcenter, orthocenter, incentre, and centroid.
Calculation:
Since all the centers lie at the same point L, PL is also the circumradius of Equilateral Triangle PQR
Using the above formula,
PL = PQ/√3
=> PL = 18/√3
=> PL = 6√3 cm.
Therefore The length of PL is 6√3 cm.

Q76. Answer: (c) Hyderabad

The correct answer is Hyderabad
Key Points
• Operation Polo was the code name of the Hyderabad "police action" in September 1948.

• Indian armed forces ended the rule of the Nizam of Hyderabad and led to the incorporation of the princely state of Hyderabad in Southern India, into the Indian Union.

• The ruler of the most powerful princely state Hyderabad, Mir Osman Ali Khan, was an aristocratic ruler and maintained an irregular army of Razakars.

• By Sardar Patel's plan, Army and Police led by Maj Gen J N Chaudhuri attacked and covered Hyderabad.

• Mir Osman later signed Instrument of Accession.

Q77. Answer: (b) Madhya Pradesh

The correct answer is Madhya Pradesh

• Bandhavgarh National Park is a famous Tiger Reserve located in Madhya Pradesh, India.

• It was declared a national park in 1968 and then became Tiger Reserve in 1993.

• The Tiger Reserve is Known for the healthy population of tigers and a variety of herbivores.

• Madhya Pradesh was declared the Tiger State in 2019. As per the July 2019 Tiger census report, the tiger count in the state had risen from 308 in 2014 to 526 in 2018.

• Madhya Pradesh

• Capital- Bhopal

• CM- Mohan Yadav

• Governor- Mangubhai C. Patel

Q78. Answer: (d) Karla Caves

The correct answer is Karla Caves

• Karla caves were built during the Satvahana rule in India in the 2nd and 3rd century BC.

• Located at Karla, Lonavala in Maharashtra.

• It is a stately depicture of Buddhist intricacies in architecture with special emphasis on the physical form of Buddha.

• The caves have both chaitya halls which are the largest in the world were used for mass worship practices and viharas were mainly used as dwelling units.

Additional Information

Ajanta Caves	**Most famous cave site. Located in Aurangabad district, Maharashtra. The Ajanta caves were inscribed by the Buddhist monks, under the patronage of the Vakataka kings – Harishena being a prominent one.**
Ellora Caves	Important cave site in Aurangabad. Located 100 km from Ajanta. It has 32 Buddhist, Jain, and Brahmanical caves
Elephanta Caves	Located in Elephanta Island in Mumbai Harbour. Originally a Buddhist site, later dominated by Shaivism.

Q79. Answer: (a) Me-Dam-Me-Phi

The correct answer is Me-Dam-Me-Phi.

• Me-Dam-Me-Phi is the most important Ancestor worship communal festival celebrated by the Ahom people on 31 January every year in memory of the departed.

• Me-dam-me-phi is a state holiday observed in Assam on January 31st.

• It is a festival to show respect to the departed ancestors and remember their contribution to society.

• The word 'Me' means offerings. 'Dam' means ancestors and 'Phi' means gods.

Additional Information

Lampra Puja	**Lampra Puja is performed by the Noatia community of Tripura. It is usually observed on occasions such as marriage, housewarming, first rice feeding ceremony, and at the beginning of all social and religious ceremonies.**

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TirthaMukh	Tirthamukh is a place in the South Tripura district, which celebrates with great zest many festivals throughout the year one of which is the poush Sankranti mela or the Tirthamukh mela. Tripura is a place of abode for many tribal people fueling its rich culture.
Ashokastami	Ashokastami Festival is held in Tripura with ceremony and radiance. This auspicious Hindu festival falls on the 8th day (Ashtami) of Shukla Paksha

Q80. Answer: (a) heart

The correct answer is Heart.

Key Points

• A sinoatrial node is a group of cells located in the heart's wall of the right atrium.

• It is a node of muscles located on the lateral wall of the right auricle of our heart.

• Its function is to generate contraction of auricles and thence, is known as a natural pacemaker.

Additional Information

Human Heart

• The human heart is one of the most important organs responsible for sustaining life.

• The human heart is a four-chambered muscular organ.

• The size of the heart is the size of about a clenched fist.

• It functions throughout a person’s lifespan and is one of the most powerful and hardest working muscles in the human body.

• Its function is to maintain a constant flow of blood throughout the body. This replenishes oxygen and circulates nutrients among the cells and tissues.

Q81. Answer: (d) 5

The correct answer is 5%

• States' borrowing limit was increased from 3% to 5% in 2020.

• This move will give states extra resources of Rs 4.48 lakh.

• The net borrowing ceiling for 2020-21 is Rs 6.41 lakh crore, based on 5 percent of the Gross State Domestic Product (GSDP).

• Gross State Domestic Product (GSDP) is the sum total volume of all finished goods and services produced during a given period of time, usually a year, within the geographical boundaries of the State, accounted without duplication.

• It s the most important indicator for measuring the economic growth of a State.

• These estimates of economy, over a period of time, reveal the extent and direction of the changes in the levels of economic development

Q82. Answer: (d) Douglas T Ross

The correct answer is Douglas T Ross.

Key Points

• APT stands for Automatically Programmed Tool.

• It was developed by Douglas T Ross.

• It is a language that defines the tool path with respect to the part geometry and often forms the basis for post-processor generated NC files.

Additional Information

• The APT programming language is a language for defining tool paths on CNC machines.

• The APT language consists of four types of statements:

• Geometry statements will be used to specify the elemental features defining the part shape

• Motion statements are used to specify the path taken by the tool

• Post-processor statements control the machinery, controlling coolants as well as the feeds and speeds.

• Auxiliary statements complete the picture, specifying the part, required tools, etc.

Q83. Answer: (b) Kerala

The correct answer is Kerala.

• World’s richest monazite deposits occur in the Palakkad and Kollam districts of Kerala.

• Nuclear minerals are abundant in India to meet its future energy demand.

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• Nuclear mineral in India primarily comprises of the Thorium and very few reserves of Uranium.

• Thorium is mainly obtained from monazite and ilmenite along the coast of Kerala and Tamil Nadu, where it is available in abundance.

• Over 15,200 tonnes of uranium is estimated to be contained in monazite.

State	CM	Capital	Governor
Kerala	Pinarayi Vijayan	Thiruvananthapuram	Arif Mohammad Khan
Gujarat	Bhupendra Patel	Gandhinagar	Acharya Devvrat
Rajasthan	Bhajan Lal Sharma	Jaipur	Haribhau Bagade
Jharkhand	Hemant Soren	Ranchi	Santosh Gangwar

Q84. Answer: (c) Terabytes (TB)

The correct answer is Terabytes (TB).

• 1 Petabyte = 1024 Terabytes.

• The units of Computer Memory Measurements are:

• 1 Bit = Binary Digit.

• 8 Bits = 1 Byte

• 1024 Bytes = 1 KB (Kilo Byte)

• 1024 KB = 1 MB (Mega Byte)

• 1024 MB = 1 GB (Giga Byte)

• 1024 GB = 1 TB (Terra Byte)

• 1024 TB = 1 PB (Petabyte)

• 1024 PB = 1 EB (Exa Byte)

• Geop byte is the highest memory measurement unit.

Q85. Answer: (d) Karnataka

The correct answer is Karnataka.

• Yadgir, Bidar, and Gadag are districts are in the state of Karnataka.

• Karnataka is a state in the southwestern region of India.

• It is the largest state in South India and the seventh-largest in India.

• Karnataka (2022)

• Capital- Bengaluru

• Chief Minister - Basavaraj Bommai.

• Governor - Thawar Chand Gehlot

Kerala

• Capital- Thiruvananthapuram

• CM- Pinarayi Vijayan

• Governor- Arif Mohammad Khan

Madhya Pradesh

• Capital- Bhopal

• CM- Shivraj Singh

• Governor- Mangubhai C. Patel

Tamil Nadu

• Capital- Chennai

• CM- Edappadi K. Palaniswami

• Governor- Banwarilal Purohit

Q86. Answer: (c) Prashastis

The correct answer is Prashastis.

• Prashastis is a special kind of inscription, meaning “in praise of”. They were composed by learned Brahmans in praise of the rulers.

• They tell us how rulers of that time wanted to illustrate themselves.

• If the kings liked the prashastis, they gave land as a gift to the Brahmans, with records of it on copper plates.

Additional Information

Tripitakas	Tripitaka or Tipitaka is the traditional term for the Buddhist scriptures
Sutras	Sutras are a genre of ancient and medieval Indian texts found in Hinduism, Buddhism and Jainism.
Jatakas	The Jataka tales are a voluminous body of literature native to India concerning the previous births of Gautama Buddha in both human and animal form

Q87. Answer: (b) Madhya Pradesh

The correct answer is Madhya Pradesh.

• Madhya Pradesh launched “FIR Aapke Dwar”, an initiative that will see police officials going to homes of victims to register a First Information Report (FIR).

• The initiative was launched on a pilot basis across 23 police stations, including one station each in urban and rural areas of headquarters of 11 administrative divisions in the state.

• It was in order to provide an opportunity for people to register FIR at their doorsteps and maintain physical distance during the covid-19 lockdown.

• People can register an FIR (first information report) by dialing 100 and the trained police personnel will personally visit the people’s doorstep to register the complaint.

• The state has also launched a ‘Dial-112’ scheme under which facilities of ambulance, police and fire services will be made available to the caller immediately across the state.

Additional Information

• Madhya Pradesh:

• Chief Minister - Shivraj Singh Chouhan.

• Governor - Mangubhai Chhaganbhai Patel.

• Number of Districts - 52.

• Lok Sabha seats - 29.

• Rajya Sabha seats - 11.

Q88. Answer: (d) Dr. Soumya Swaminathan

The correct answer is Dr. Soumya Swaminatha

Key Points

• The World Health Organization appointed Soumya Swaminathan as the chief scientist of the Public health division.

• She will head a new division created to strengthen the body’s work and ensure that quality standards are met.

• She will work out of Geneva in Switzerland.

• She had joined the WHO in October 2017.

Additional Information

• WHO

• WHO was founded on 7 April 1948.

• Its headquarter is in Geneva, Switzerland.

• WHO is the world’s leading health organization.

• The theme of World Health Day 2023: Health for All

Q89. Answer: (c) Bipin Rawat

The correct answer is Bipin Rawat.

• General Bipin Rawat, who was appointed India's first Chief of Defence Staff.

• The defence ministry had recently amended the army, air force and navy rules by bringing in a new clause that allows the Chief of Defence Staff to serve up to a maximum age of 65 years.

• Bipin Rawat served as the tri-services chief and also adviced the Prime Minister-led nuclear command authority.

• He acted as the Principal Military Adviser to Defence Minister on all matters related to the Army, Navy and Air Force.

• Chief of Naval Staff- Admiral R. Hari Kumar

• Chief of the Army Staff- Manoj Mukund Naravane

• Chief of air staff- Chief Marshal Vivek Ram Chaudhari
• National Security Advisor- Ajit Doval

Q90. Answer: (a) Vizianagaram

The correct answer is Vizianagaram.

• The Maharaja of Vizianagaram was the first Indian cricketer to serve as President of the Board of control for Cricket in India (BCCI).
• Maharaja of Vizianagaram, who led India in a Test tour to England in 1936.
• Despite playing only 3 Test matches for India, the Maharaja of Vizianagaram served as BCCI president between 1954 and 1956.
• Former India captain Sunil Gavaskar and Shivlal Yadav have also served as interim BCCI presidents in 2014.
• Sourav Ganguly became the 2nd Indian cricketer to become BCCI president.
• BCCI
• The Board of Control for Cricket in India (BCCI) was set up on December 4, 1928, by a group of players at Delhi's Roshnara Club to end the British monopoly in cricket.
• It is the governing body of Indian cricket.
• The BCCI headquarters is at 'Wankhede Stadium' in Mumbai.
• The first president of BCCI was 'Grant Govan', while the secretary was 'Anthony De Mello'.
• Current President- Saurav Ganguly

Q91. Answer: (a) snails

The correct answer is Snails.

Key Points

• The snail is a very slow-moving animal.
• Like an earthworm, a snail too has a liquid skeleton.
• Snails have a shell, inside which they can hide to protect themselves from the heat of the sun and enemies.
• The shell is the outer skeleton, but it is not made of bones.
• For movement, a thick structure and the head of the snail come out of an opening in the shell.
• The thick structure is its foot, made of strong muscles.
• The muscular foot produces wave-like movements that push the snail's body forward.
• A trail of mucous is left behind when the snail crawls.

Additional Information

Jellyfish	**Jellyfish are animals of the phylum Cnidaria. They have no brain, heart, bones or eyes. They are made up of a smooth, bag-like body and tentacles armed with tiny, stinging cells.**
Sea urchins	Sea urchins are the Class Echinoidea of the Phylum Echinodermata. These creatures are typically small, spiny, and round. They live in all the earth's oceans, at depths ranging from the tide line to 15,000 feet.
Earthworms	Earthworms are classified in the phylum Annelida or Annelids. They are the main contributors to enriching and improving soil for plants, animals and even humans.

Q92. Answer: (b) Diana Edulji

The correct answer is Diana Edulji.

• Diana Edulji holds the record for delivering the most number of balls by any woman cricketer in Women's test history.
• She was honoured with Arjun Award in 1983.
• The Government of India awarded her the civilian honour of Padma Shri in 2002.
• She is said to be the greatest Indian woman cricketer of all time.
• She was appointed in BCCI administration panel by the Supreme Court of India on 30 January 2017.

Additional Information

• On 1 February 2019, during India's series against New Zealand Women, Mithali Raj became the first woman to play in 200 ODI matches.
• In September 2019, she announced her retirement from T20Is to focus on ODI cricket.

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Q93. Answer: (d) mood

The correct answer is mood.

Key Points

• Depression is a mood disorder.

• Depression (major depressive disorder) is a common and serious medical illness that negatively affects how you feel, the way you think and how you act.

• It is treatable.

• It causes feelings of sadness and a loss of interest in activities you once enjoyed.

• It can lead to a variety of emotional and physical problems and can decrease your ability to function at work and at home.

Additional Information

Somatoform	**Somatoform disorders are characterized by physical sensations and bodily pain caused by mental illness.**
Dissociative	Dissociative disorders are mental disorders that involve experiencing a disconnection and lack of continuity between thoughts, memories, surroundings, actions, and identity.
Schizophrenic	Schizophrenia is a chronic, severe mental disorder that affects the way a person thinks, acts, expresses emotions, perceives reality, and relates to others.

Q94. Answer: (c) Gopal Krishna Gokhale

The correct answer is Gopal Krishna Gokhale.

• Gopal Krishna Gokhale was born on May 9, 1866, and died at the age of 49, on 19 February 1915.

• He is described as one of the founding leaders of India's independence movement, having risen to become the President of the Indian National Congress in 1905.

• He was a mentor and guru to both Mohandas K Gandhi and Mohammad Jinnah.

• Gandhi himself considered him a guide and once called him a "Mahatma".

• Jinnah was so influenced that he said he wanted to be known as Muslim Gokhale.

• Mahatma Gandhi even wrote a book called, 'Gokhale, My Political Guru'.

Additional Information

• Lala Lajpat Rai- This nationalist leader played a vital role in India’s independence movement. Popularly known as Punjab Kesari or the Lion of Punjab, he was also a prominent member of the ‘Lal Bal Pal’ trio which included Bal Gangadhar Tilak and Bipin Chandra Pal.

• Bal Gangadhar Tilak- He was one of the most important leaders of the Indian Independence Movement. He is also known as ‘Father of Indian Unrest.’

• Rabindranath Tagore- He was an icon of Indian culture. He was a poet, philosopher, musician, writer, and educationist. Rabindranath Tagore became the first Asian to became Nobel laureate when he won Nobel Prize for his collection of poems, Gitanjali, in 1913.

Q95. Answer: (d) Landslide

The correct answer is Landslide.

• Landslide is an example of a Territorial natural disaster.

• Landslides occur when masses of rock, earth, or debris move down a slope.

• It occurs in areas, where wildfires or human modification of the land have destroyed vegetation on slopes, are particularly vulnerable to landslides during and after heavy rains.

• Landslides affect the following elements of the environment:

• the topography of the earth’s surface.

• the character and quality of rivers and streams and groundwater flow.

• the forests that cover much of the earth’s surface.

• the habitats of natural wildlife that exist on the earth’s surface, including its rivers, lakes, and oceans.

Q96. Answer: (a) Mallakhamb

The correct answer is Mallakhamb.

• A Traditional Indian sport, Mallakamb involves a gymnast performing feats with a vertical wooden pole or rope. The word, Mallakamb, also refers to the pole used in the sport.

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• The word ‘Mallakhamb’ comes from coalescing two words- ‘malla’ meaning wrestler and ‘ khamb’ meaning pole.

• The gymnast performs aerial yoga postures on a wooden pole, a cane, or simply a rope.

• Traditionally, a wooden pole is used to perform yoga postures, which is made of Sheesham or Indian Rosewood and smoothened by castor oil.

• Yubi Lakpi- It is a type of contact sport played with a coconut. The sport originated in Manipur in India and is currently the only place where it is played.

• Nadan Panthu Kali- It is is a popular sport played in villages of Kottayam district. This game is played using a small ball made of leather and filled with cotton or coconut fibre.

• Kalaripayattu- It is considered among the oldest and most scientific martial arts in the world, Kalaripayattu was developed in Kerala. It is an Indian martial art.

Q97. Answer: (b) Chhattisgarh

The correct answer is Chhattisgarh.

• Chhattisgarh had been announced as the cleanest state in Swachh Survekshan 2019.

• The authorities from the state had dedicated the honour to the passion and commitment of their citizens and Urban Local Bodies.

• The state was declared Open Defecation Free (ODF) on October 2, 2018.

• The authorities have claimed that the sanitation coverage of Chhattisgarh has gone from 10 per cent in 2014 to 100 per cent at present.

• Jharkhand was declared as the second best-performing state at the Swachh Survekshan 2019.

• Chhattisgarh is known for being India’s first Open Defecation Free state,

Swachh Survekshan 2020

• Cleanest State- Chhattisgarh

• Cleanest city- Indore

Q98. Answer: (d) Kaka Kalelkar

The correct answer is Kaka Kalelkar.

• Backward Classes Commission was appointed by the President of India on 29 January 1953 with Kaka Kaielkar as its chairman.

• The Commission was asked to determine the criteria to be adopted to provide concessions to “socially and educationally backward classes” besides the Scheduled Castes and Scheduled Tribes; the Commission was also asked to prepare a list of such classes.

• The Commission was also directed to investigate the conditions of all such socially and educationally backward classes and the difficulties which they encountered in carrying out their work

Q99. Answer: (a) Nursing the World to Health

The correct answer is Nursing the World to Health.

• May 12 is celebrated as International Nurses Day to mark the contributions of nurses who play a pivotal part in the whole delivery care system.

• The theme for 2020, Nurses: A Voice to Lead – Nursing the World to Health.

• The World Health Organization (WHO) has designated 2020 as The Year of the Nurse and Midwife, to make the 200th anniversary of the birth of Florence Nightingale. In the year 2020, this was chosen to celebrate ‘Nurses Day’ the day holds huge significance as nurses are at the forefront to help hospitals to tackle covid patients.

• In 1965, the first International Nurses Day was celebrated.

• In January 1974, May 12 was chosen to celebrate ‘Nurses Day’.

• The theme for 2021 is Nurses: A Voice to Lead - A vision for future healthcare.

Q100. Answer: (b) ICICI Bank

The correct answer is ICICI Bank.

Key Points

• Ashok Leyland joined hands with ICICI Bank for vehicle loans.

• It has tied up with lCICI Bank for vehicle loans for a period of two years.

• The agreement will enable both partners to offer customized financial solutions to customers across the country with a focus on semi-urban and rural geographies.

Additional Information

Bank	Headquarters
HDFC Bank	Mumbai
ICICI Bank	Mumbai
Punjab National Bank	Delhi
State Bank of India	Mumbai

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