SSC CHSL Previous Paper 15 (Held On: 13 Oct 2020 Shift 3) (Previous Year Paper)

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

Take this paper as a timed mock test

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

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Scan the QR code or click the link to open it.

ENGLISH LANGUAGE

Q1. Directions: Select the correctly spelt word.

(a) Restaurent
(b) Memmoir
(c) Business
(d) Studiuous

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

Nebulous

(a) Faith
(b) Stable
(c) Dearly
(d) Vague

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

METROPOLITAN

(a) Federal
(b) National
(c) Provincial
(d) Insular

Q4. Directions: Select the most appropriate option to fill in the blank in the given sentence.

A _____ of small stones is called a mosaic.

(a) structure
(b) mound
(c) pattern
(d) design

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.

A city, predominantly made of red sandstone, Fatehpur Sikri (1)____ founded in the 16^(th)century by the Mughal Emperor, Akbar. It is essentially a fortified city (2)__ had been the capital of Akbar (3)__ fifteen years. Now a UNESCO world heritage site (4)__ a famous tourist attraction, it is a fine (5)____ of Mughal architecture.

Q5. Select the most appropriate option to fill in blank number 1.

(a) was
(b) had
(c) were
(d) is

Q6. Select the most appropriate option to fill in blank number 2.

(a) which
(b) where
(c) what
(d) who

Q7. Select the most appropriate option to fill in blank number 3.

(a) by
(b) since
(c) for
(d) from

Q8. Select the most appropriate option to fill in blank number 4.

(a) and
(b) but
(c) nor
(d) if

Q9. Select the most appropriate option to fill in blank number 5.

(a) example
(b) ruin
(c) infrastructure
(d) organization

Q10. Directions: Given below are four jumbled sentences. Select the option that gives their correct order.

A. They grew cabbages and carrots in their back yard.
B. The family was very poor and was always hungry because there was a war on.
C. They also had a chicken, which provided the family with eggs, but still they were hungry.
D. Their country had been invaded by a foreign army.

(a) DABC
(b) CADB
(c) CDAB
(d) BDAC

Q11. 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.

Since it falls on the floor, her dog, a black Labrador, gulped the biscuit down.

(a) Since it fell
(b) Because it is falling
(c) As it have fallen
(d) No improvement

Q12. Directions: Select the option that is the passive form of the given sentence.

The police brought a search warrant when they raided his house.

(a) A search warrant had been brought when the police raided his house.
(b) The police had raided his house and brought a search warrant.
(c) A search warrant was brought by the police when they raided his house.
(d) A search warrant was brought when they raided his house by the police.

Q13. Directions: Select the most appropriate ANTONYM of the given word.

INSTANT

(a) Similar
(b) Gradual
(c) Prompt

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(d) Diverse

Q14. Directions: Select the word which means the same as the group of words given.

Tending to associate with others of one's kind

(a) Genial
(b) Congruous
(c) Harmonious
(d) Gregarious

Q15. 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.

This is a class who is expected to do exceptionally well in the quiz next week.

(a) which is expected to do
(b) No improvement
(c) that is expecting to done
(d) which are expecting to be doing

Q16. Directions: Select the most appropriate option to fill in the blank in the given sentence.

The performances of the notable dancers and guest artists _____ the audience.

(a) occupied
(b) absorbed
(c) immersed
(d) enthralled

Q17. Directions: Select the word which means the same as the group of words given.

Lasting for a very short time

(a) Endless
(b) Illusory
(c) Ephemeral
(d) Infinite

Q18. Directions: Select the most appropriate synonym of the given word.

RIND

(a) Peel
(b) Petal
(c) Leaf
(d) Shade

Q19. Directions: Select the INCORRECTLY spelt word.

(a) Inclusion
(b) Excess
(c) Discriminatory
(d) Supportors

Q20. Directions: Identify the segment in the given sentence which contains the grammatical error.

Most of voters in Taiwan seem to have once again voted for the democratic party and President Tsai Ing-wen.

(a) once again voted for
(b) the democratic party
(c) in Taiwan seem to have
(d) Most of voters

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Q21. Directions: Select the option that is the direct form of the given sentence.

Nidhi exclaimed that it was a beautiful painting.

(a) Nidhi said to the artist in surprise, “How beautiful you made that painting!”
(b) Nidhi exclaimed, “What a beautiful painting!”
(c) Nidhi told him in wonder, “How beautiful!”
(d) Nidhi said to the artist, “That looks like a beautiful painting!”

Q22. Directions: Identify the segment in the given sentence which contains the grammatical error.

We noticed that most of the shoppers in the mall looking for packets of ready to cook food.

(a) packets of ready to cook food
(b) most of the shoppers
(c) in the mall looking for
(d) We noticed that

Q23. Directions: Each of the following questions has underlined idioms/phrases. Each sentence is followed by four options. Choose the option that best describes the meaning of the underlined idiom/phrase.

Akshay is likely to take the heat for having miscalculated the expenses.

(a) scold everyone
(b) receive criticism
(c) feel very hot
(d) enjoy warm climate

Q24. Select the most appropriate meaning of the idiom.

To have a gut feeling

(a) To suffer from inflammation
(b) To feel an instinct or intuition
(c) To experience discomfort
(d) To have pain in the abdomen

Q25. Directions: Given below are four jumbled sentences. Select the option that gives their correct order.

A. I sow a seed.
B. I saw the sapling.
C. I saw the sprout.
D. I saw the plant.

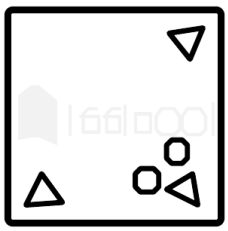
(a) ACBD
(b) DBAC
(c) CABD
(d) ABCD

GENERAL INTELLIGENCE

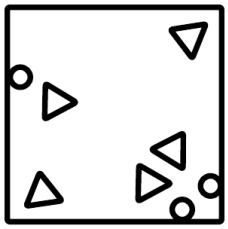
Q26. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



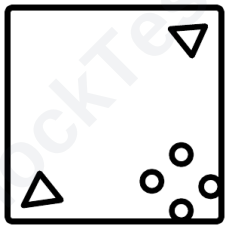
(a)



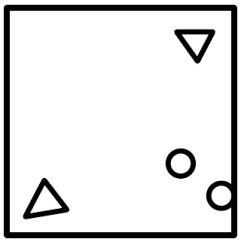
(b)



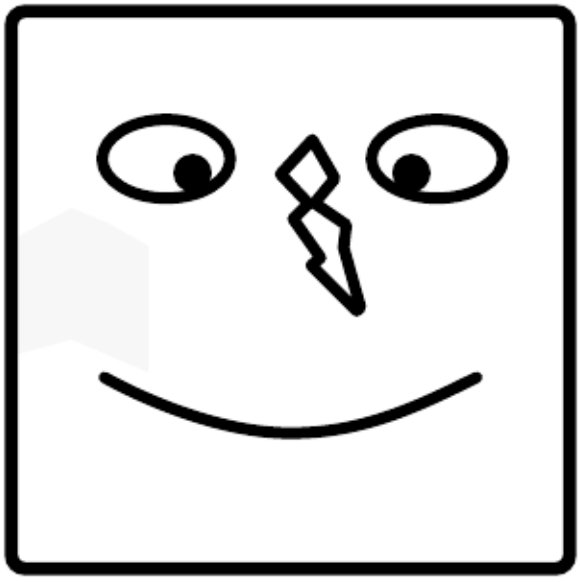
(c)



(d)

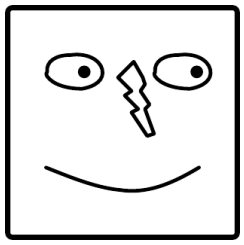


Q27. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

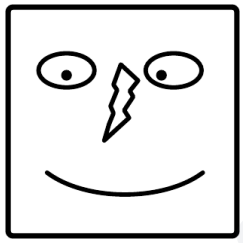


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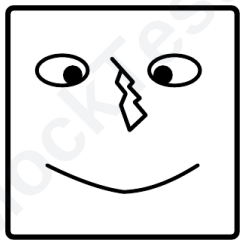
(a)



(b)



(c)



(d)



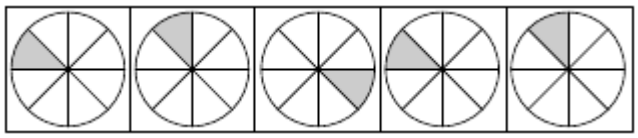
Q28. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different

(a) ADGPI
(b) ECVMU
(c) OMKLU
(d) VDCKA

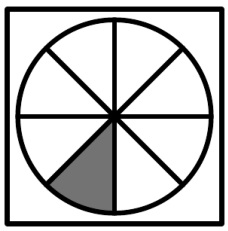
Q29. In a certain code language, KNOWLEDGE is written DEEGKLNOW. How will SERIAL be written as in the same language?

(a) AEILRS
(b) AELIRS
(c) AEILRM
(d) AEIRLM

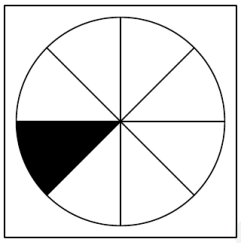
Q30. Select the figure that will come next in the following figure series.



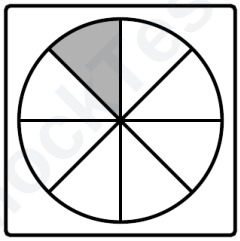
(a)



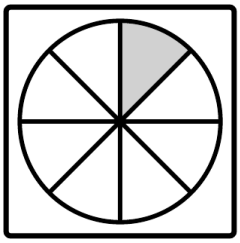
(b)



(c)



(d)



Q31. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

abcc_ _ _ ab _ _ _ de _ _cc_deab_ _ _de

(a) ccdabdccddde
(b) ddeccdabdccd
(c) ddeccdabddcc
(d) ddecbdccdcda

Q32. Select the letter cluster that will replace the question mark (?) in the following series.

JAM, KEL, LIK, ?, NUI

(a) MEJ
(b) JEM
(c) MOJ
(d) MAJ

Q33. In a certain code language, IF is written as 225 and BUT is written as 1849. How will SLIP be written as in that language?

(a) 1336
(b) 3163
(c) 3136
(d) 6313

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Q34. Find the missing number from the below options.

16	30	18
4	34	?
10	32	40

(a) 62
(b) 22
(c) 38
(d) 58

Q35. Pointing to a picture of Rajiv who is a boy, a lady Neeta said, “His sister’s father is the only son of my Father-in-law.” How is Neeta related to Rajiv?

(a) Mother
(b) Granddaughter
(c) Paternal Grandmother
(d) Sister

Q36. Select the option in which the words in the word-pair share the same relationship as that shares by the given word-pair.

Tiger: Felidae

(a) Lion : Leporidae
(b) Rabbit : Bovidae
(c) Whale : Cetacea
(d) Elephant : Canidae

Q37. A boy has a total of Rs. 740 in the denominations of two rupee, five rupee, ten rupee and Twenty rupee notes. If the number of each denomination is equal, what is the total number of Notes the boy has?

(a) 80
(b) 20
(c) 40
(d) 60

Q38. Read the given statements and conclusion 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:

I. Some men are animals.

II. All trees are rivers.

III. All men are trees.

Conclusion:

I. Some men are rivers.

II. All rivers are animals.

III. All rivers are men.

IV. Some men are trees.

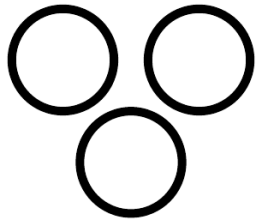
(a) Only conclusion IV follows
(b) Only conclusions I and II follow
(c) Only conclusion I and IV follows
(d) Only conclusions III and II follow

Q39. Select the Venn diagram that best represents the relationship between the following classes.

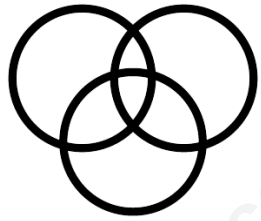
Doctor, Neurosurgeons, Female

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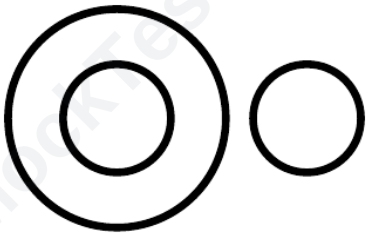
(a)



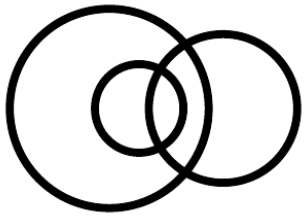
(b)



(c)



(d)



Q40. Which two signs should be interchanged in the given equation to make it correct?

4 – 7 × 28 + 12 ÷ 3 = 4

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

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

6, 9, 13, 21, 38, 71, ?

(a) 129
(b) 101
(c) 99
(d) 121

Q42. Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

1. State
2. Village
3. District
4. City
5. Country

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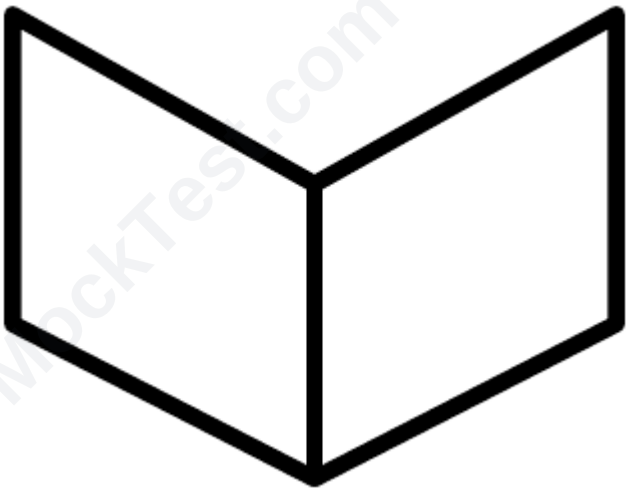
(a) 1, 3, 5, 2, 4
(b) 1, 3, 5, 4, 2
(c) 2, 4, 3, 1, 5
(d) 4, 3, 5, 2, 1

Q43. Select the option that is related to the third term in the same way as the second term is related to the first term.

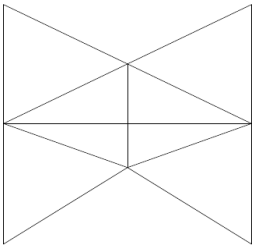
EASY : DDNF :: MAKE : ?

(a) NXPX
(b) LDFL
(c) LFDL
(d) XXPN

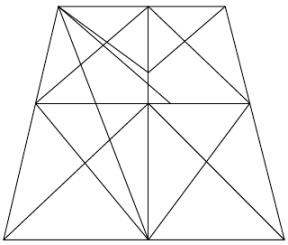
Q44. Select the option in which the given is embedded. (Rotation is NOT allowed)



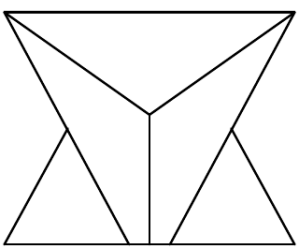
(a)



(b)

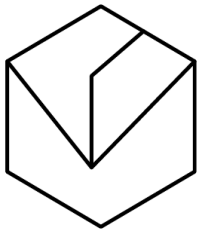


(c)



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(d)



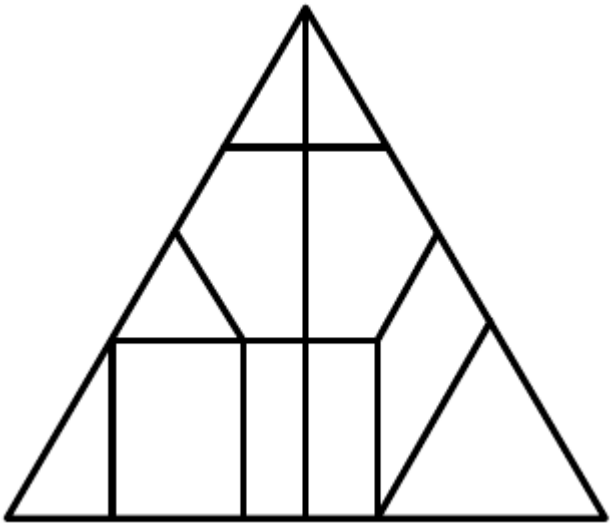
Q45. Select the option in which the number set shares the same relationship as that shared by the given number set.
(6, 42, 1890)

(a) (7, 23, 1069)
(b) (2, 6, 54)
(c) (9, 102, 1190)
(d) (4, 20, 420)

Q46. Select the option that is related to the third term in the same way as the second term is related to the first term.
AIDS : VIRUS :: MALARIA : ?

(a) Parasite
(b) Virus
(c) Nematodes
(d) Bacteria

Q47. How many triangles are there in the given figure?



(a) 12
(b) 10
(c) 8
(d) 15

Q48. Rahul is three times as old as Amar. Amber was half the age of Rahul three years ago. After four years from now, Rahul will be 43. What are the present Ages of Amar and Amber?

(a) 38, 21
(b) 13, 18
(c) 39, 21
(d) 13, 21

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Q49. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

(1, 2, 2) (7, 35, 5) (12, 96, ?)

(a) 7
(b) 8
(c) 9
(d) 11

Q50. Three different positions of the same dice are shown. Select the symbol that will be on the face opposite to the one having '!'.



(a) &
(b) #
(c) %
(d) $

QUANTITATIVE APTITUDE

Q51. In ΔPQR, S and T are mid-points of PQ and PR, respectively. If angle QPR = 75° and angle PRQ = 40°, then angle TSQ is:

(a) 115°
(b) 105°
(c) 120°
(d) 135°

Q52. If tan X = m/n and 0° ≤ X ≤ 90°, then the value of (sin X + cos X) is:

(a) $1/(\sqrt{(m^2 + n^2)})$
(b) $\sqrt{(m^2 - n^2)}$
(c) $1/(\sqrt{(m^2 - n^2)})$
(d) $(m + n)/(\sqrt{(m^2 + n^2)})$

Q53. The value of (72 + 34) ÷ 2 + [{(75 ÷ 15) + 6} × 2] is:

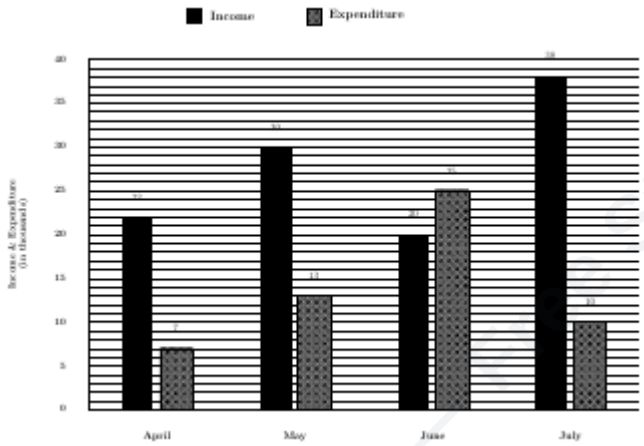
(a) 74
(b) 75
(c) 86
(d) 78

Q54. Find the factors of the expression $3x^2 – 5x – 8$.

(a) (x + 1) and (3x + 8)
(b) (x + 1) and (3x – 8)
(c) (x – 1) and (3x + 8)
(d) (x – 1) and (3x – 8)

Q55. The given bar graph represents the income and expenditure of a person during the four consecutive months, April to July, 2019.

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What is the percentage difference between the total income and the total expenditure with respect to the total income?

(a) 50%
(b) 65%
(c) 60%
(d) 70%

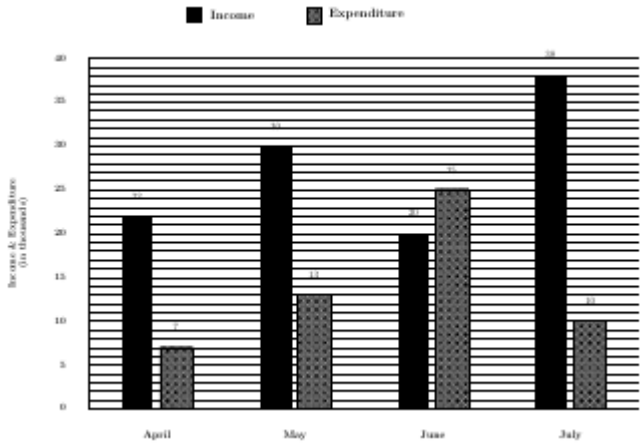
Q56. If 40% of a number is less than its 60% by 30, then the 20% of that number is:

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

Q57. If the average of 35 numbers is 22, the average of the first 17 numbers is 19, and the average of the last 17 numbers is 20, then the 18^(th) number is

(a) 132
(b) 108
(c) 133
(d) 107

Q58. The given bar graph represents the income and expenditure of a person during the four consecutive months, April to July, 2019.



What is the percentage of the total expenditure of the total income?

(a) 20%
(b) 50%
(c) 40%
(d) 30%

Q59. If $xy = 16$ and $x^2 + y^2 = 32$, then the value of $(x + y)$ is:

(a) ±10
(b) ±4
(c) ±8
(d) ±6

Q60. If $\sin x - \cos x = 0$, then the value of $(\sin^3 x - \cos^3 x)$ is:

(a) 1
(b) 2
(c) 0
(d) 4

Q61. If Ravi sells an old scooter for Rs. 18,000, then his loss incurred is 10%. If he sells it to gain a profit of 15%, then the selling price is:

(a) Rs. 20,000
(b) Rs. 23,000
(c) Rs. 24,000
(d) Rs. 22,000

Q62. The compound interest and the amount obtained, on a certain sum of money are Rs. 820 and Rs. 8,820 respectively after 2 years. If the rate of interest compounded yearly, then the rate of interest is:

(a) 8%
(b) 7%
(c) 6%
(d) 5%

Q63. In a circle two equal and parallel chords are 6 cm apart and lie on the opposite sides of the centre of the circle. If the length of each chord is 8 cm, then the radius of the circle is:

(a) 3 cm
(b) 7 cm
(c) 5 cm
(d) 2 cm

Q64. To a circle with centre at O, two tangents AP and AQ are drawn from an external point A. If the angle PAQ = 80°, then the angle POQ is:

(a) 80°
(b) 70°
(c) 90°
(d) 100°

Q65. If $a + b = 10$ and $3/7$ of $ab = 9$, then the value of $a^3 + b^3$ is:

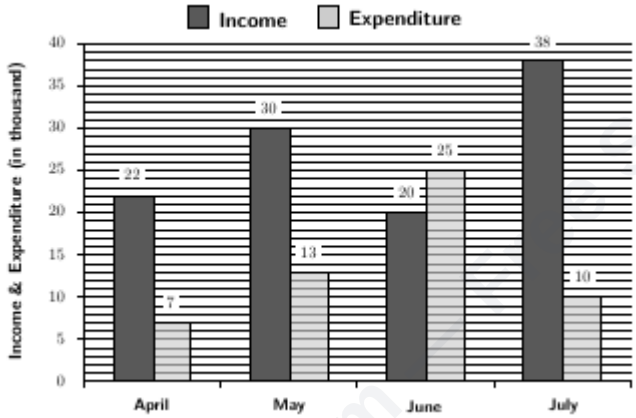
(a) 350
(b) 370
(c) 270
(d) 360

Q66. $\frac{\cot x}{1 + \operatorname{cosec} x} + \frac{1 + \operatorname{cosec} x}{\cot x}$ is equal to:

(a) 2 sin x
(b) 2 cos x
(c) 2 cosec x
(d) 2 sec x

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Q67. The given bar graph represents the income and expenditure of a person during the four consecutive months, April to July, 2019.



What is the average expenditure of the person?

(a) Rs. 17,250
(b) Rs. 15,570
(c) Rs. 13,750
(d) Rs. 17,520

Q68. In a ΔABC, DE is parallel to BC where D and E are the points on AB and AC, respectively and AD = 4 cm, DB = 8 cm, AE = 3 cm. Length of EC is:

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

Q69. If 2794p561 is divisible by 9, then the value of p is:

(a) 3
(b) 2
(c) 0
(d) 4

Q70. If the measure of the sides of a cuboid are 8 cm, 6 cm and 10 cm, then the volume (in cm^3) of the cuboid is:

(a) 840
(b) 480
(c) 540
(d) 680

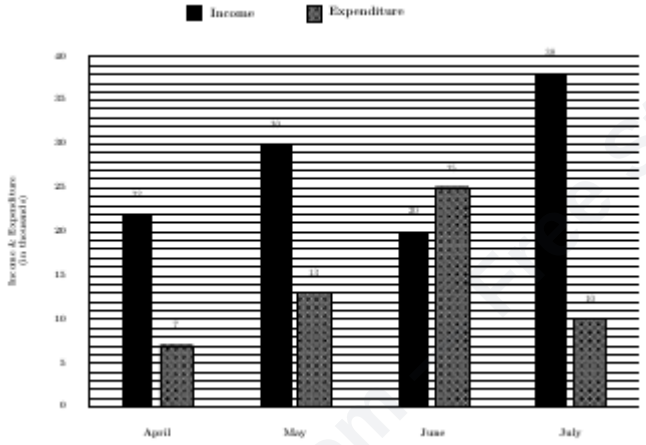
Q71. A train that is running at the speed of 72 km/h crosses an electric pole in 36 seconds. The length of the train (in metres) is:

(a) 620 m
(b) 720 m
(c) 460 m
(d) 360 m

Q72. Tap A can fill a tank in 6 hours, tap B can fill the same tank in 8 hours and tap C can empty the same tank in 4 hours. If all three taps A, B and C are opened together, then how much time (In hours) will be taken to fill the tank?

(a) 30
(b) 20
(c) 24
(d) 28

Q73. The given bar graph represents the income and expenditure of a person during the four consecutive months, April to July 2019.



What is the average income of the person?

(a) Rs. 20,500
(b) Rs. 27,500
(c) Rs. 25,500
(d) Rs. 17,500

Q74. If a : b = 3 : 5 and b : c = 2 : 3, then the proportion a : b : c is:

(a) 3 : 5 : 3
(b) 3 : 10 : 3
(c) 3 : 10 : 15
(d) 6 : 10 : 15

Q75. The marked price and selling price of a book is Rs. 850 and Rs. 748 respectively. The discount in percentage is:

(a) 8%
(b) 15%
(c) 12%
(d) 10%

GENERAL AWARENESS

Q76. Which Indian economist was appointed as the Chief Economist of the World Bank from 2012 to 2016?

(a) Jagdish Bhagwati
(b) Kaushik Basu
(c) Indraprasad Gordhanbhai Patel
(d) Raghuram Rajan

Q77. Which of the following temples has Panchayatana Style of architecture?

(a) Dashavatara Temple
(b) Sun Temple
(c) Brihadeshwara Temple
(d) Kashi Vishwanath temple

Q78. Which former badminton player of India was awarded the ‘Sportstar LifetimeAchievement Award’ in February 2019?

(a) Prakash Padukone
(b) Pullela Gopichand
(c) Chetan Anand
(d) Sanave Thomas

Q79. What is the chemical name of ‘oil of vitriol’?

(a) Methyl alcohol
(b) Calcium hydroxide
(c) Sodium chloride
(d) Sulfuric acid

Q80. Which planet is made up of thick white and yellowish clouds of sulfuric acid?

(a) Uranus
(b) Venus
(c) Neptune
(d) Mars

Q81. In which language were the Mughal court chronicles written?

(a) Sanskrit
(b) Hindi
(c) Urdu
(d) Persian

Q82. As per state census 2011, which of the following is the least populous state of India?

(a) Kerala
(b) Sikkim
(c) Odisha
(d) Tamil Nadu

Q83. Which child activist became the first Indian to be awarded the ‘Changemaker Award2019’ (given by the Bill and Melinda Gates Foundation) for her work towards abolitionof child marriage in Rajasthan?

(a) Kanchan Upadhaya
(b) Ridhima Pandey
(c) Payal Jangid
(d) Ayushi Dholakia

Q84. Which Indian mountain looks like a giant pyramid and has a flat summit area and two peaks?

(a) Saltoro Kangri
(b) Mamostang Kangri
(c) Nanda Devi
(d) Kamet

Q85. Which of the following prominent leaders wrote the book ‘Citizen Delhi: My Life, My Times’?

(a) Sheila Dikshit
(b) Arvind Kejriwal
(c) Harsh Vardhan
(d) Arun Jaitley

Q86. Which of the following pairs is INCORRECTLY matched?

(a) Bharat Sanchar Nigam Limited – Miniratna
(b) Indian Oil Corporation Limited – Maharatna
(c) Airport Authority of India – Navratna
(d) Hindustan Aeronautics Limited – Maharatna

Q87. Who designed the first analog computer in India?

(a) Subodh Chandra Das Gupta
(b) Deb Kumar Bose
(c) Samarendra Kumar Mitra
(d) Bimal Kumar Bhattacharyya

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Q88. Which of the following monuments has NOT been notified as a National Geo-heritage Monument by the Geological Survey of India (GSI)?

(a) Pillow Lava in Iron Ore belt at Nomira, Odisha
(b) Nagahill Ophiolite site near Pungro, Nagaland
(c) Peninsular Gneiss Lalbagh, Karnataka
(d) Gingee Fort Villupuram District, Tamil Nadu

Q89. On which date did Indian National Congress pass the Resolution of 'Poorna Swaraj'(total independence) at the Lahore Session?

(a) 21 December 1929
(b) 19 December 1929
(c) 26 December 1929
(d) 15 December 1929

Q90. Which instrument records the waves reaching the surface during an earthquake?

(a) Seismograph
(b) Chronometer
(c) Barograph
(d) Manometer

Q91. Which player became the first Indian brand ambassador of La Liga (the top tier of Spanish club football) in December 2019?

(a) Virat Kohli
(b) Sachin Tendulkar
(c) Mahendra Singh Dhoni
(d) Rohit Sharma

Q92. On December 2019, the Prime Minister of _____ announced the commencement of the ‘Gandhi Citizenship Education Award’ to be given every year.

(a) Bhutan
(b) Japan
(c) Portugal
(d) France

Q93. Which festival marks the beginning of the Tibetan New Year?

(a) Saga Dawa Festival
(b) Ongkor Festival
(c) Losar festival
(d) Shoton Festival

Q94. When was the ‘Rajiv Gandhi Khel Ratna Award’ instituted?

(a) 1993-94
(b) 1991–92
(c) 1985-86
(d) 2002-03

Q95. What was India’s rank in the world in terms of military power as per the ‘Global Firepower Nations Index 2019’?

(a) 4^(th)
(b) 9^(th)
(c) 3^(rd)
(d) 5^(th)

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Q96. Who was sworn in as the 11th Chief Minister of Jharkhand on 29 December 2019?

(a) Hemant Soren
(b) Shibu Soren
(c) Raghubar Das
(d) Alamgir Alam

Q97. In DASD, what is the full form of 'A'?

(a) Access
(b) Around
(c) Accessible
(d) Arithmetic

Q98. Which scientist arranged the Periodic Table of Elements in the order of increasing atomic masses?

(a) Dmitri Mendeleev
(b) Henry Moseley
(c) Robert Boyle
(d) William Ramsay

Q99. In which year did Motilal Nehru (Chairman) and eight other Congress leaders draft a constitution for India?

(a) 1928
(b) 1925
(c) 1930
(d) 1950

Q100. What is the provision of Article 49 of the Constitution of India?

(a) Provision for free and compulsory education for children
(b) Promotion of international peace and security
(c) Prohibition of employment of children (Under the age of 14) in factories and mines
(d) Protection of monuments and places and objects of national importance

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Business

The correct answer is 'Business'

Key Points

• The correctly spelled word is 'Business' it is a noun which means 'A regular person's occupation or trade.'
• The other spellings which need to be corrected are-
• Restaurant- A place where people pay to sit and eat meals that are cooked and served on the premises.

• Memoir- It is a noun that means 'a historical account or biography written.'
• Studious- It is an adjective that means 'spending a lot of time studying or reading.'
• So the correct answer is 'Option 3'

Q2. Answer: (d) Vague

The correct answer is 'Vague'

Key Points

• Let's see the meaning of the given words-
• Nebulous→ Vague or ill-defined (which is not clear)
• Example: The concept of time is often perceived as nebulous, as it is difficult to define and comprehend fully.
• Faith→ Complete trust or confidence
• Example: Despite facing numerous challenges, she held onto her faith, believing that everything would work out in the end.
• Stable→ Not likely to give way or overturn, firmly fixed.
• Example: The stock market showed stable growth over the past year, providing investors with a sense of security.
• Dearly→ Very much or at a great cost
• Example: He cherished his grandmother dearly, as she had always been there for him throughout his life.
• Vague→ Of uncertain or imprecise in thought or meaning.
• Example: The instructions given for the assignment were vague, leaving the students confused about what was expected of them.
• So the correct answer is 'Vague' as it is the exact synonym of the given word.

Q3. Answer: (c) Provincial

The correct answer is 'Provincial'

Key Points

• Let's see the meaning of the given words-
• Metropolitan→ Relating to or denoting a metropolis.
• National→ Relating to or characteristic of a nation.
• Federal→ Having or relating to a system of government in which several states form a unity but remain independent.
• Provincial→ Relating to the regions outside the capital city of a country, unsophisticated or narrow-minded.
• Insular→ Uninterested in ideas.
• So according to the meaning of the given options, the correct answer is 'Provincial'

Q4. Answer: (c) pattern

The correct answer is 'Pattern'

Key Points

• In the given blank, we need a noun because before the blank we have an indefinite article.
• Let's see the meaning of the words-
• Structure→ The quality of being well organized.
• Mound→ A large pile or quantity of something.
• Pattern→ A regular form or sequence or an arrangement.
• Design→ The art of action or planning.
• Mosaic→ is a picture or pattern produced by arranging together small pieces of colored stones.
• So according to the meaning of mosaic, the correct answer is 'pattern'

Q5. Answer: (a) was

The correct answer is 'was'

Key Points

In the given blank we need to fill the past indefinite tense i.e. 'was'

• According to the rule of grammar, whenever we have things which are built in the past and time reference is also given which is 'the 16th century' then, we need to write the past time.

So the correct sentence is- Fatehpur Sikri was founded in the 16th century by the Mughal Emperor, Akbar.

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Q6. Answer: (a) which

The correct answer is 'Which'

Key Points

In the given blank we need to fill the relative pronoun 'Which'

• According to the rule of grammar, to mention things we generally use the pronoun 'which'.

So the correct sentence is- It is essentially a fortified city which had been the capital of Akbar

Q7. Answer: (c) for

The correct answer is 'for'

Key Points

In the given blank we need to fill 'for'

• According to grammar, to refer to the time we generally use the preposition 'for/since' for is used to show the duration and since is used to show the point in time.

• After the blank, there is a duration which is 'fifteen years.'

So the correct sentence is- It is essentially a fortified city which had been the capital of Akbar for fifteen years.

Q8. Answer: (a) and

The correct answer is 'and'

Key Points

In the given blank we need to write 'and'

• According to grammar, we need to connect the same qualities of the subject with the coordinate conjunction 'and'

• In the given sentence, the first quality is 'It is a UNESCO world heritage site' and the other one is a famous tourist attraction'

• So these qualities to be connected with the conjunction 'and'

So the correct sentence is- Now a UNESCO world heritage site and a famous tourist attraction.

Q9. Answer: (a) example

The correct answer is 'example'

Key Points

• Let's see the meaning of the given words-

• Example→ A thing characteristic of its kind or illustrating a general rule.

• Ruin→ A physical destruction.

• Infrastructure→The basic physical and organizational structures.

• Organization→ The action of organizing.

• So according to the meaning of the given words, the correct answer is 'Example' as it is contextually correct.

So the correct sentence is→ it is a fine example of Mughal architecture.

Q10. Answer: (d) BDAC

The correct answer is 'BDAC'

Key Points

• The given passage will start with the sentence 'B' because it is the only independent sentence out of four.

• Now the next sentence will be 'Sentence D' because it gives further information on what has really happened.

• The next sentence is 'A' because it tells what the country really does.

• The last sentence is C.

So the correct sequence is- BDAC

Q11. Answer: (a) Since it fell

The correct answer is 'Since it fell'

Key Points

The given phrase is to be replaced with 'Since it fell'

• In the given sentence there are two clauses the main clause is 'Her dog, a black Labrador, gulped the biscuit down.' and the subordinate clause is 'Since it falls on the floor'

• As we can see that the main clause's verb is in the past tense the verb is 'gulped' so according to the rule of grammar the subordinate clause should be in the past tense.

• So we should replace 'falls' with 'fell'

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So the correct sentence is- Since it fell on the floor, her dog, a black Labrador, gulped the biscuit down.

Q12. Answer: (c) A search warrant was brought by the police when they raided his house.

The correct answer is 'A search warrant was brought by the police when they raided his house.'

Key Points

• According to the rule of grammar, the subject of the sentence is 'the police' and the object of the sentence is 'a search warrant' hence the rule says that in the passive voice the subject of the sentence becomes the object and the object of the sentence becomes the subject.

• The main verb of the sentence is 'Brought' which tells that it is in the past tense hence in the passive voice the tense will not be changed.

• Also, the sequence of the clauses should not be changed too. 'When they raided his house' should be at the end position.

So the correct sentence is- A search warrant was brought by the police when they raided his house. i.e. option 3.

Q13. Answer: (b) Gradual

The solution is in Hindi. Read it online.

Q14. Answer: (d) Gregarious

The correct answer is 'Gregarious'.

Key Points

• Let's see the meanings of the given words-

• Genial→ Friendly and Cheerful

• Example: The genial host welcomed us into his home with open arms.

• Congruous→ In agreement or harmony

• Example: The congruent colors in the painting created a sense of peace and tranquility.

• Harmonious→ Free from conflict

• Example: The harmonious sounds of the orchestra filled the concert hall.

• Gregarious→ Fond of company or sociable

• Example: The gregarious child made friends with everyone in the class.

• So the correct answer according to the meaning of the words is 'Gregarious'

Q15. Answer: (a) which is expected to do

The correct answer is 'Which is expected to do'

Key Points

The given phrase is to be replaced with 'Which is expected to do'

• According to grammar, Whenever we have an antecedent and it is a thing or a group, then use 'which' as a relative pronoun.

• Example: She belongs to a great organization, which specializes in saving endangered species.

• In the given sentence, 'who' is incorrect as 'who' is used for the antecedents which are nouns.

• Let's see an example-

• I went over to start up a conversation, asking her who she knew at the party.

So the correct sentence is- This is a class which is expected to do exceptionally well in the quiz next week.

Q16. Answer: (d) enthralled

The correct answer is 'Enthralled'

Key Points

• Let's see the meaning of the given words-

• Occupied→ Fill or take up, keep busy, active.

• Absorbed→ Soak up or take in.

• Immersed→ Dip or submerge in liquid.

• Enthralled→ capture the fascinated attention of.

• So according to the meaning of the given words, the correct answer is 'Enthralled'

So the correct sentence is→ The performances of the notable dancers and guest artists Enthralled the audience.

Q17. Answer: (c) Ephemeral

The correct answer is 'Ephemeral'

Key Points

• Let's see the meaning of the given words-
• Endless→ Having or seeming to have no end limits. Innumerable.
• Illusory→ Based on illusion not reality.
• Ephemeral→ Lasting or used for a very short time.
• Infinite→ Limitless in space, extent, or size.
• So according to the meaning of the given words, the correct answer is 'Ephemeral'

Q18. Answer: (a) Peel

The correct answer is 'Peel'

Key Points

• Let's see the meaning of the given words-
• Rind (verb)→ strip the bark from (a tree).
• Example: He removed the thick rind from the watermelon before slicing it into refreshing, juicy pieces.
• Petal→ Each of the segments of the corolla of a flower.
• Example: The delicate rose had beautiful red petals that added a touch of elegance to the flower arrangement.
• Peel(verb)→ Remove the outer covering or skin from (a fruit, vegetable, etc.)
• Example: She used a knife to carefully peel the skin off the orange before enjoying the juicy segments.
• Leaf→ A flattened structure of a plant.
• Example: The autumn breeze blew, causing the colorful leaves to rustle and dance on the ground.
• Shade→ Comparative darkness or coolness caused by shelter from direct sunlight.
• Example: The tall tree provided welcome shade on a hot summer day, offering respite from the scorching sun.
• So according to the meaning of the given words the correct answer is 'Peel'

Q19. Answer: (d) Supportors

The correct answer is 'supportors'

Key Points

The correct spelling is 'Supporters'

• The rest of the spellings are→
• Inclusion→ The action of the state of being included.
• Excess→ An amount that is more than needed.
• Discriminatory→ Showing discrimination or prejudice.
• Hence, the correct answer is 'Option 4'

Q20. Answer: (d) Most of voters

The correct answer is 'Most of voters' i.e. error lies in this part of the sentence.

Key Points

In the given sentence, the usage of 'Most of voters' is incorrect instead use 'Most voters'

• According to grammar, 'Most' is a determiner which is used for the nouns to determine them as it is determiner hence it has no effect on the verb.

• If we read further the verb of the sentence is 'seem' which is a plural verb. So the subject of the sentence should be a plural noun which is going to be 'Voters'

So the correct sentence is- Most voters in Taiwan seem to have once again voted for the democratic party and President Tsai Ing-wen.

Confusion Points

• 'Most of' is also a quantifier and the structure is Most of + definite article + noun. In this case, the verb should be according to the noun.

• Let's see an example-

• **Most of the houses in the capital don't have piped water.

• So the given sentence can also be corrected in the other way also- Most of the voters in Taiwan seem to have once again voted for the democratic party and President Tsai Ing-wen.

Q21. Answer: (b) Nidhi exclaimed, “What a beautiful painting!”

The correct answer is Nidhi exclaimed, “What a beautiful painting!”

Key Points

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• Rules for Changing Exclamatory Sentences into Indirect Speech

• The sentences containing sudden expressions of joy, sorrow, anger, applause, surprise, or contempt are called exclamatory sentences.

• We replace the Reporting verb with ‘exclaimed with joy,’ ‘exclaimed with sorrow’, ‘exclaimed with surprise’ etc according to the sense of the Reported speech.

• The conjunction ‘that’ is used.

• Let's see the examples-

• Nidhi said, "Wow! that's beautiful". (Direct speech)

• Nidhi exclaimed with joy that it was beautiful. (Indirect speech)

• Similarly, the given sentence is in 'Indirect speech' and we need to make this sentence into a direct speech.

• So by applying these rules we get option 2.

Q22. Answer: (c) in the mall looking for

The correct answer is 'in the mall looking for'

Key Points

In the given sentence, the usage of 'in the mall looking for' is incorrect Instead, use 'in the mall were looking for'

• According to grammar, 'Most of' is a quantifier which is used to 'to refer to the majority of a group of things or people or the largest part of something.'

• In the given sentence, 'that clause' is used which has its own subject which is 'shoppers' hence we need a verb for this subject because it is not mentioned in the sentence.

• So we need a plural verb which should be in the past tense because the main clause of the sentence is in the past tense.

• So use 'were looking'

So the correct sentence is- We noticed that most of the shoppers in the mall were looking for packets of ready to cook food.

Q23. Answer: (b) receive criticism

The correct answer is 'receive criticism'

Key Points

• The meaning of the given idiom 'to take the heat' is- to accept blame or withstand disapproval.

• Let's see an example-

• If this decision turns out to be a bad one, I'll take the heat for it.

• So the correct answer is 'Option 2'

Q24. Answer: (b) To feel an instinct or intuition

The correct answer is 'To feel an instinct or intuition'

Key Points

• The meaning of the given idiom 'To have a gut feeling' is- an instinctive feeling, as opposed to an opinion based on facts

• Let's see an example-

• My gut feeling was that this woman was a good woman.

So the correct answer is 'Option 2'

Q25. Answer: (a) ACBD

The correct answer is 'ACBD'

Key Points

• Let's first understand the meaning of the given words which are given in the sentences-

• Seed→ A seed is the small, hard part of a plant from which a new plant grows.

• Sapling→ A sapling is a young tree.

• Sprout→ When plants, vegetables, or seeds sprout, they produce new shoots or leaves.

• Plant→ A plant is a living thing that grows in the earth and has a stem, leaves, and roots.

• Hence according to the meaning of the words→

• We put seed, then sprout will grow or develop, then sapling will come out a small plant and then the plant.

So the correct sentence is- I sow a seed I saw the sprout I saw the sapling I saw the plant.

Q26. Answer: (c) [figure]

The paper when unfolded will appear as shown below:

Hence, 'option 3' is the correct answer.

Q27. Answer: (b) [figure]

The correct mirror image of the given figure when the mirror is placed to the right side of the figure is shown below:

Hence, option 2 is the correct answer.

Q28. Answer: (d) VDCKA

The pattern followed here is:

1) ADGPI → 1^(st) and 5^(th) letters are vowels.

2) ECVMU → 1^(st) and 5^(th) letters are vowels.

3) OMKLU → 1^(st) and 5^(th) letters are vowels.

4) VDCKA → 1^(st) letter is a consonant and 5^(th) letters is a vowel.

Hence, 'VDCKA' is the odd one out.

Q29. Answer: (a) AEILRS

The pattern followed here is:

All the letters are arranged according to Alphabetical order in ascending order according to their place values from left to right.

KNOWLEDGE → DEEGKLNOW

Similarly,

SERIAL → AEILRS

Hence, 'AEILRS' is the correct answer.

NOTE :

It is not necessary that in coding-decoding you always get the pattern of letter shifting or criss-cross letter shifting. we need to check the options also when no pattern strikes our brain. From the options, we can get the idea that letters are alphabetically arranged here.

Q30. Answer: (c) [figure]

The figure that will come next in the following figure series is shown below:

The series is moving in clockwise direction, and with each step, the shaded portion shifts its position.

From 1^(st) image to 2^(nd) image – shaded portion shifts by 1 place.

From 2^(nd) image to 3^(rd) image - shaded portion shifts by 3 place.

From 3^(rd) image to 4^(th) image - shaded portion shifts by 5 place.

From 4^(th) image to 5^(th) image - shaded portion shifts by 7 place.

From 5^(th) image to 6^(th) image - shaded portion shifts by 9 place.

Hence, 'option 3' is the correct answer.

Q31. Answer: (b) ddeccdabdccd

The pattern is:

If the given sequence of letters is divided into four equal parts, we see a particular pattern is repeated.

abccdde / abccdde / abccdde / abccdde

Hence, 'ddeccdabdccd' is the correct answer.

Q32. Answer: (c) MOJ

The pattern followed here is:

According to the alphabetical positions of the letters,

Hence, 'MOJ' is the correct answer.

Q33. Answer: (c) 3136

The pattern followed here is:

According to the alphabetical positions of the letters,

Letter	I	F
Place Value	9	6

Code	Square of sum of place value 9 + 6 = 15 → (15)² = 225[s1]	

Letter	B	U	T
Place Value	2	21	20
Code	Square of sum of place value 2 + 21 + 20 = 43 → (43)² = 1849		

Similarly,

Letter	S	L	I	P
Place Value	19	12	9	16
Code	Square of sum of place value 19 + 12 + 9 + 16 = 56 → (56)² = 3136			

Hence, '3136' is the correct answer.

[s1] Use table format for place value type question. Do not use diagram for that

Q34. Answer: (a) 62

The logic is:

Column 1: (16 + 4) ÷ 2 = 10

Column 2: (30 + 34) ÷ 2 = 32

Similarly,

Column 3: (18 + ?) ÷ 2 = 40

=> 18 + ? = 80

=> ? = 80 – 18

=> ? = 62

Hence, '62' is the correct answer.

Q35. Answer: (a) Mother

According to the given conditions,

So, Neeta is the mother of Rajiv.

Hence, 'Mother' is the correct answer.

Q36. Answer: (c) Whale : Cetacea

The logic is:

Tiger: Felidae → Tiger belongs to the family of Felidae.

Similarly,

1) Lion: Leporidae → Lion belongs to the family of Felidae.

2) Rabbit: Bovidae → Rabbit belongs to the family of Leporidae.

3) Whale: Cetacea → Whale belongs to the family of Cetacea

4) Elephant: Canidae → Elephant belongs to the family of Elephantidae.

Hence, 'Whale: Cetacea' is the correct answer.

Q37. Answer: (a) 80

Let 'x' be the number of each denomination.

As the number of each denomination is equal, the equation for the question can be written as:

2x + 5x + 10x + 20x = 740

=> 37x = 740

=> x = 740 ÷ 37

=> x = 20

So, total number of Notes the boy has = 4 × 20 = 80

Hence, '80' is the correct answer.

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Q38. Answer: (c) Only conclusion I and IV follows

The least possible Venn diagram is:

I. Some men are rivers. → True (As it is given all men are trees and all trees are rivers → Some men are rivers)

II. All rivers are animals. → False (It can be possible, but it is not definite. As some men are animals and all trees are rivers and all men are trees → Some rivers are animals))

III. All rivers are men. → False (As it is given all men are trees and all trees are rivers → Some rivers are men)

IV. Some men are trees. → True (As it is given all men are trees also means that some men are trees.

Hence, Only conclusion I and IV follows

Q39. Answer: (d) [figure]

The Venn diagram that best represents the relationship between Doctor, Neurosurgeons, and Female is shown below:

All Neurosurgeons are Doctors and some Doctors and Neurosurgeons are female.

Hence, 'option 4' is the correct answer.

Q40. Answer: (d) × and -

1) × and +

Given expression: 4 – 7 × 28 + 12 ÷ 3 = 4

After replacing the symbols, we get:

L.H.S = 4 – 7 + 28 × 12 ÷ 3

= 4 – 7 + 28 × 4

= 4 – 7 + 112

= 116 – 7

= 109 ≠ R.H.S

2) – and ÷

Given expression: 4 – 7 × 28 + 12 ÷ 3 = 4

After replacing the symbols, we get:

L.H.S = 4 ÷ 7 × 28 + 12 – 3

= 16 + 12 – 3

= 28 – 3

= 25 ≠ R.H.S

3) × and ÷

Given expression: 4 – 7 × 28 + 12 ÷ 3 = 4

After replacing the symbols, we get:

L.H.S = 4 – 7 ÷ 28 + 12 × 3

= 4 – 0.25 + 36

= 40 – 0.25

= 39.75 ≠ R.H.S

4) × and -

Given expression: 4 – 7 × 28 + 12 ÷ 3 = 4

After replacing the symbols, we get:

L.H.S = 4 × 7 – 28 + 12 ÷ 3

= 28 – 28 + 4

= 4 = R.H.S

Hence, '× and -' is the correct answer.

Q41. Answer: (a) 129

The logic is:

Hence, '129' is the correct answer.

Q42. Answer: (c) 2, 4, 3, 1, 5

The arrangement of the following words in a logical and meaningful order is:

2. Village

4. City

3. District
1. State
5. Country
A country is divided into different states, which is further divided into districts, districts are further divided into cities and villages.
Hence, '2, 4, 3, 1, 5' is the correct answer.

Q43. Answer: (b) LDFL

The pattern followed here is:
According to the alphabetical positions of the letters,
Similarly,
Hence, 'LDFL' is the correct answer.

Q44. Answer: (a) [figure]

The option figure that is embedded in the given figure X when rotation is now allowed is shown below:
Hence, 'option 1' is the correct answer.

Q45. Answer: (b) (2, 6, 54)

The logic is:
(6, 42, 1890) → 6 × (6 + 1) = 42 and 42 × (42 + 3) = 1890
Similarly,
1) (7, 23, 1069) → 7 × (7 + 1) = 56 ≠ 23 and 23 × (23 + 3) = 598 ≠ 1069
2) (2, 6, 54) → 2 × (2 + 1) = 6 and 6 × (6 + 3) = 54
3) (9, 102, 1190) → 9 × (9 + 1) = 90 ≠ 102 and 102 × (102 + 3) = 10710 ≠ 1190
4) (4, 20, 420) → 4 × (4 + 1) = 20 and 20 × (20 + 3) = 460 ≠ 420
Hence, '(2, 6, 54)' is the correct answer.

Q46. Answer: (a) Parasite

The logic is:
AIDS : VIRUS → AIDS is transmitted by VIRUS. The VIRUS is transmitted through infected blood, semen or vaginal fluids.
Similarly,
MALARIA : ? → Malaria is a disease transmitted by the bite of an infected mosquito. When the mosquito bites a person, the PARASITE is released into the blood stream of the person.
Hence, 'Parasite' is the correct answer.

Q47. Answer: (b) 10

The number of triangles in the given figure is shown below:
Hence, '10' is the correct answer.

Q48. Answer: (d) 13, 21

Rahul is three times as old as Amar.
Let age of Amar be 'a'.
So, age of Rahul = 3a
The age of Rahul three years ago = 3a – 3
Age of Amber three years ago = (3a – 3) ÷ 2
After four years from now, Rahul will be 43.
According to the above statement, (3a + 4) = 43
=> 3a = 43 – 4
=> 3a = 39
=> a = 13
So, present age of Amar is 13 years.
Age of Amber three years ago = (3a – 3) ÷ 2
= (3 × 13 – 3) ÷ 2
= (39 – 3) ÷ 2
= 36 ÷ 2

= 18

Present age of Amber = 18 + 3 = 21 years.

The present Ages of Amar and Amber are 13 and 21 years.

Hence, ’13, 21’ is the correct answer.

Q49. Answer: (b) 8

The logic is:

1^(st) number × 3^(rd) number = 2^(nd) number

(1, 2, 2) → 1 × 2 = 2

(7, 35, 5) → 7 × 5 = 35

Similarly,

(12, 96, ?) → 12 × ? = 96

=> ? = 96 ÷ 12

=> ? = 8

Hence, ‘8’ is the correct answer.

Q50. Answer: (c) %

The faces opposite to each other is shown below:

#	@	**!**
&	$	%

Hence, ‘%’ is the correct answer.

Q51. Answer: (a) 115°

Given:

In ΔPQR, S and T are mid-points of PQ and PR.

angle QPR = 75° and angle PRQ = 40°

Formula:

If in In ΔPQR, S and T are mid-points of PQ and PR, then

ΔPQR ~ ΔPST

Sum of all three angles of a triangle is 180°.

Calculation:

In ΔPQR

=> angle QPR + angle PQR + angle PRQ = 180°

=> 75° + angle PQR + 40° = 180°

=> angle PQR = 180° - 115°

=> angle PQR = 65°

As given S and T are mid-points of sides PQ and PR of triangle PQR, then

ΔPQR ~ ΔPST

angle PST = angle PQR = 65°

Now,

angle PST + angle TSQ = 180° [liner pair]

=> 65° + angle TSQ = 180°

=> angle TSQ = 180° - 65°

Therefore angle TSQ = 115°

Q52. Answer: (d) (m + n)/(√(m² + n²))

Given:

tan X = m/n

Formula:

Pythagoras Theorem

$H^2 = B^2 + P^2$

Where, Hypotenuse = H, Base = B and Perpendicular = P

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tan x = Perpendicular/Base
sin x = Perpendicular/Hypotenuse
cos x = Base/Hypotenuse
Calculation:
tan X = Perpendicular/Base = m/n
Perpendicular = m and Base = n
Now,
(Hypotenuse)² = m² + n²
=> Hypotenuse = √(m2 + n²)
Now,
sin X + cox X
=> m/√(m2 + n2) + n/√(m2 + n2)
=> (m + n)/√(m2 + n2)

Q53. Answer: (b) 75

(72 + 34) ÷ 2 + [{(75 ÷ 15) + 6} × 2]
=> 106 ÷ 2 + [{5 + 6} × 2]
=> 53 + [11 × 2]
=> 53 + 22
=> 75

Q54. Answer: (b) (x + 1) and (3x – 8)

Given:
3x2 – 5x – 8
Calculation:
3x2 – 8x + 3x – 8
=> x(3x - 8) + 1(3x - 8)
=> (x + 1)(3x - 8)

Q55. Answer: (a) 50%

Given:
Total expenditure = 7,000 + 13,000 + 25,000 + 10,000 = 55,000
Total income = 22,000 + 30,000 + 20,000 + 38,000 = 1,10,000
Difference between his total income and total expenditure = 1,10,000 - 55,000 = 55,000
Therefore Required Percentage = (55,000/1,10,000) × 100 = 50%

Q56. Answer: (c) 30

Shortcut Trick
Difference in percentage = 60% − 40% = 20%
Given that this difference in value is 30.
Therefore 20% of the number = 30.
Therefore The correct answer is 30.
Alternate Method
Given:
Let the number be x.
60% of x − 40% of x = 30
Calculations:
=> 0.60x − 0.40x = 30
=> 0.20x = 30
=> x = 30 ÷ 0.20
=> x = 150
Now, find 20% of x:
=> 20% of 150 = (20/100) × 150

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=> 0.20 × 150 = 30

Therefore The correct answer is 30.

Additional Information

Percentage Change

To find the percentage change between two values, use: [(New Value − Old Value) ÷ Old Value] × 100.

Fraction to Percentage Conversion

Multiply a fraction by 100 to convert it to a percentage (e.g., 1/5 × 100 = 20%).

Base Value Concept

In percentage problems, the 'number' is always considered as the 100% base value.

Q57. Answer: (d) 107

Given:

The average of 35 numbers = 22

The average of first 17 numbers = 19

The average of the last 17 numbers = 20

Formula:

Average = (Sum of all observations)/(Total number of all observations)

Calculation:

The sum of 35 numbers = 22 × 35 = 770

Sum of first 17 numbers = 17 × 19 = 323

Sum of last 17 numbers = 17 × 20 = 340

Therefore 18th number = 770 - (340 + 323) = 770 - 663 = 107

Alternate Methodnth Number = Sum of total number - (Sum of first (n - 1) + Sum of Last (n - 1))

Therefore 18th number = 770 - (340 + 323) = 770 - 663 = 107

Q58. Answer: (b) 50%

Expenditure of the person from April to July

=> 7,000 + 13,000 + 25,000 + 10,000 = 55,000

Income of the person from April to July

=> 22,000 + 30,000 + 20,000 + 38,000 = 1,10,000

Therefore The percentage of the total expenditure of the total income is

=> (55,000/1,10,000) × 100 = 50%

Q59. Answer: (c) ±8

Given:

x2 + y2 = 32 and xy = 16

Formula:

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

Calculation:

(x + y)2 = x2 + y2 + 2xy

=> (x + y)2 = 32 + 2 × 16

=> $(x + y)^2 = 32 + 32$

=> $(x + y)^2 = 64$

=> (x + y) = ±8

Q60. Answer: (c) 0

Given:

sin x - cos x = 0

Calculation:

sin x - cos x = 0

=> sin x = cos x

Now,

sin3 x - cos3 x

=> sin3 x - sin3 x

=> 0

Q61. Answer: (b) Rs. 23,000

Given:

SP of old scooter = Rs. 18,000

Loss % = 10%

Formula:

CP = SP × [100/(100 - Loss%)

SP = CP × [(100 + Profit%)/100]

Calculation:

CP of the scooter = Rs. 18,000 × (100/90) = 20,000

Therefore New SP of the scooter = 20,000 × (115/100) = Rs. 23,000

Q62. Answer: (d) 5%

Given:

CI of 2 years = Rs. 820

Amount = Rs. 8820

Time = 2 years

Formula:

A = P (1 + r/100)^t

Calculation:

Amount = Rs. 8820

CI = Rs. 820

Principal = Rs. 8820 - Rs. 820 = Rs. 8000

According to the formula

$8820 = 8000 (1 + r/100)^2$

$\Rightarrow (1 + r/100)^2 = 8820/8000$

$\Rightarrow (1 + r/100)^2 = 441/400$

$\Rightarrow (1 + r/100) = \sqrt{441/400}$

$\Rightarrow (1 + r/100) = 21/20$

$\Rightarrow r/100 = 21/20 - 1$

$\Rightarrow r/100 = 1/20$

$\Rightarrow r = 5\%$

Therefore The rate of interest is 5%.

Q63. Answer: (c) 5 cm

Given:

Length of each chord = 8 cm

Distance between chords = 6 cm

Formula:

Pythagoras Theorem

Hypotenuse = H, Base = B and Perpendicular = P

$H^2 = B^2 + P^2$

Calculation:

AB and CD are two chords length of each is 8 cm.

O is the center of the circle and M is mid point of AB and Q is the midpoint of CD

Let OB = OD = r (radius of circle)

MQ = 6 cm (Given)

Let OM = x, then

OQ = (6 - x) cm

In right angled ΔMOB

$OB^2 = OM^2 + MB^2$

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=> $r^2 = x^2 + 4^2$

=> $x^2 = r^2 - 16$ ----(1)

In right angled ΔQOD

OD2 = OQ2 + QD2

=> r2 = (6 - x)2 + 42

=> $r^2 = 36 + x^2 - 12x + 16$

=> $x^2 = r^2 + 12x - 52$ ----(2)

From equation (1) and equation (2)

r2 - 16 = x2 = r2 + 12x - 52

=> 12x = 36

x = 3

Now,

r2 = x2 + 42

=> r2 = 32 + 42

=> r2 = 9 + 16

=> r = √25

=> r = 5

Therefore Length of radius of the circle is 5 cm.

Q64. Answer: (d) 100°

Given:

To a circle with center at O, two tangents AP and AQ are drawn from an external point A.

angle PAQ = 80°

Concept:

Tangent of a circle is perpendicular to radius.

Calculation:

angle PAQ + angle OPA + angle OQA + angle POQ = 360

=> 80° + 90° + 90° + angle POQ = 360°

=> angle POQ = 360° - 260°

=> angle POQ = 100°

Therefore The value of angle POQ is 100°.

Q65. Answer: (b) 370

Shortcut Trick

Given a + b = 10 and 3/7 × ab = 9.

Solve for ab: ab = (9 × 7) ÷ 3 = 21.

Apply the algebraic identity: $a^3 + b^3 = (a + b)^3 - 3ab(a + b)$.

Substitute values: $10^3 - 3(21)(10) = 1000 - 630 = 370$.

Therefore The correct answer is 370.

Alternate Method

Given:

Sum of two numbers, a + b = 10

Product relationship, 3/7 of ab = 9

Formula Used:

We use the cubic expansion identity: $a^3 + b^3 = (a + b)^3 - 3ab(a + b)$

Calculations:

=> From the given product ratio: (3/7) × ab = 9

=> 3 × ab = 9 × 7

=> 3 × ab = 63

=> ab = 21

=> Now, applying the formula for $a^3 + b^3$:

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

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=> $a^3 + b^3 = (10)^3 - 3 \times 21 \times 10$

=> $a^3 + b^3 = 1000 - (63 \times 10)$

=> $a^3 + b^3 = 1000 - 630$

=> $a^3 + b^3 = 370$

Therefore The correct answer is 370.

Additional Information

Fundamental Cubic Identities

$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$ and $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$.

Expansion of $(a + b)^3$

$(a + b)^3 = a^3 + b^3 + 3ab(a + b)$. Rearranging this gives the direct substitution formula used above.

Relationship with Squares

$a^2 + b^2 = (a + b)^2 - 2ab$. This is often a preliminary step in solving for higher powers like a^4 + b^4.

Q66. Answer: (d) 2 sec x

Formula:

cot x = cos x/sin x

cosec x = 1/sin x

sec x = 1/cos x

Calculation:

cotx/(1 + cosec x) + (1 + cosec x)/cotx

=> [(cosx/sinx)/(1 + 1/sinx)] + [(1 + 1/sinx)/(cos x/sin x)]

=> [(cosx/sinx)/{(sinx + 1)/sinx}] + [{(sinx + 1)/sinx}/(cos x/sin x)]

=> [cosx/(sin x + 1)] + [(sinx + 1)/cosx]

=> $[\cos^2 + (\sin x + 1)^2]/[(\sin x + 1) \cos x]$

=> $[\cos^2 + \sin^2 + 1 + 2 \sin x]/[(\sin x + 1) \cos x]$

=> [2 + 2 sin x]/[(sin x + 1) cos x]

=> [2 (1 + sinx)]/[(sin x + 1) cos x]

=> 2/cos x

=> 2 sec x

Q67. Answer: (c) Rs. 13,750

Expenditure of the person from April to July = 7,000 + 13,000 + 25,000 + 10,000 = 55,000

Average = Sum of all observations/Total number of all observations

Therefore Average expenditure of person = 55,000/4 = Rs. 13,750

Q68. Answer: (b) 6 cm

Given:

ΔABC, DE is parallel to BC where D and E are points on AB and AC.

AD = 4 cm, DB = 8 cm and AE = 3 cm.

Formula:

If D and E are mid points of sides AB and AC of ΔABC, then ΔABC ~ ΔADE

If ΔABC ~ ΔADE, then

AB/AD = BC/DE = AC/AE

Calculation:

According to the formula

AD/AB = AE/AC

=> 4/12 = 3/AC

=> AC = 9cm

Therefore EC = 6 cm

Q69. Answer: (b) 2

Given:

2794p561 is divisible by 9.

Formula:

Divisibility law of 9 => A number is divisible by 9 if sum of its digit is divisible by 9.

Calculation:

2 + 7 + 9 + 4 + p + 5 + 6 + 1

=> 34 + p

If we put p = 2, then

=> 34 + 2

=> 36 (which is divisible by 9)

Therefore p = 2

Q70. Answer: (b) 480

Given:

Length of cuboid = 8 cm

Breadth of cuboid = 6 cm

Height of cuboid = 10 cm

Formula:

Volume of cuboid = lbh

Calculation:

Volume of cuboid = 8 × 6 × 10 = 480 cm^3

Q71. Answer: (b) 720 m

Given:

Speed of train = 72 km/hr

The train crosses an electric pole = 36 seconds

Formula:

Speed = distance/Time

1 km/hr = 5/18 m/sec

Calculation:

Let length of train be x meter

72 × 5/18 = x/36

=> x = 72 × 5/18 × 36

=> x = 720 m

Therefore Length of train is 720 m.

Q72. Answer: (c) 24

Given:

Tap A can fill a tank in = 6 hours

Tap B can fill the same tank in = 8 hours

Tap C can empty the same tank in = 4 hours

Formula:

Total work = Efficiency × Time

Calculation:

Total work = 24 units (LCM of 6, 8 and 4)

Efficiency of tap A = 4 units/day

Efficiency of tap B = 3 units/day

Efficiency of tap C = -6 units/day

Therefore Time taken by A, B and C to fill the tank = 24/(4 + 3 - 6) = 24 hours

Q73. Answer: (b) Rs. 27,500

Given:

Income of the person from April to July = 22,000 + 30,000 + 20,000 + 38,000 = 1,10,000

Formula:

Average = Sum of all observations/Total number of all observations

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Calculation:

Therefore Average income of person = 1,10,000/4 = Rs. 27,500

Q74. Answer: (d) 6 : 10 : 15

Given:

a : b = 3 : 5

b : c = 2 : 3

Calculation:

a : b = 3 : 5 ----(1)

b : c = 2 : 3 ----(2)

Multiply by 2 in equation (1) and multiply by 5 in equation (2)

Therefore a : b : c = 6 : 10 : 15

Q75. Answer: (c) 12%

Given:

MP of the book = Rs. 850

SP of the book = Rs. 748

Formula:

Discount % = (Discount/MP) × 100

Calculation:

Discount = Rs. 850 - Rs. 748 = Rs. 102

Therefore Discount Percentage = (102/850) × 100 = 12%

Q76. Answer: (b) Kaushik Basu

The correct answer is Kaushik Basu.

• Kaushik Basu served as the Chief Economist of the World Bank from 2012 to 2016.

• He has also served as the chief economic adviser to Government of India from 2009 to 2012.

Key Points

• Jagdish Bhagwati

• Jagdish Natwarlal Bhagwati is an India-born naturalized American economist.

• Bhagwati currently serves on the Academic Advisory Board of Human Rights Watch (Asia) and on the board of scholars of the Centre for Civil Society.

• Raghuram Rajan

• He was an Indian economist and 23rd Governor of the RBI.

• Also the author of the book 'I Do What I Do'.

Q77. Answer: (a) Dashavatara Temple

The correct answer is Dashavatara Temple.

• Dashavatara Temple has Panchayatana Style of architecture.

Key Points

• Panchayatana Style of architecture:

• The main shrine is built on a rectangular plinth with four smaller subsidiary shrines at the four corners.

• Thus making it a total number of five shrines and hence the name, panchayatana.

• Deogarh temple in Lalitpur District, Uttar Pradesh is also an example of Panchayatana Style of architecture.

Additional Information

• The Sun Temple of Konark has a Kalinga type of architecture.

• King Narsimhadeva constructed the Sun temple at Konarka.

• Brihadeshwara Temple has a Dravidian type of architecture.

• It was built by Raja Raja Chola and his sister Kundavai.

• Kashi Vishwanath temple is situated in Varanasi, Uttar Pradesh.

Q78. Answer: (a) Prakash Padukone

The correct answer is Prakash Padukone.

• Prakash Padukone was awarded the ‘Sportstar LifetimeAchievement Award’ in February 2019.

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Key Points

• Prakash Padukone won the Lifetime Achievement Award for his contribution to badminton

• He was awarded at the Sportstar Aces Awards supported by Supreme Committee of Delivery and Legacy.

• Prakash Padukone won a bronze medal at the 1974 Asian Games, gold at the 1979 Commonwealth Games.

• Prakash Padukone was the first Indian shuttler to be ranked number one in the world, and the first Indian to won the prestigious All England Championships in 1980.

• The award was presented by former India captain Sunil Gavaskar.

Additional Information

• Pullela Gopichand is the Chief National Coach for the Indian Badminton team.

• Chetan Anand is a is a badminton player.

• Sanave Thomas Arattukulam won a bronze medal at the 2006 Commonwealth Games and silver medal at the 2010 Commonwealth Games in the mixed team event in badminton.

Q79. Answer: (d) Sulfuric acid

The correct answer is Sulfuric acid / sulphuric acid.

• Sulfuric acid is the chemical name of ‘oil of vitriol’.

Key Points

• Sulfuric acid is a dense, colourless, oily, corrosive liquid.

• It is one of the most commercially important of all chemicals.

• It is prepared industrially by the reaction of water with sulfur trioxide.

• Vitriol is any of certain hydrated sulfates or sulfuric acid.

• Uses of Sulphuric acid (H2SO4):

• In lead storage battery.

• In the manufacturing of HCl.

• In the manufacturing of Alum.

• In the manufacturing of fertilisers,

drugs, detergents and explosives.

Additional Information

• Blue or roman vitriol is cupric sulfate (CuSO4).

• Green vitriol is also called copperas, a name formerly applied to all the vitriols is ferrous sulfate

• White vitriol is zinc sulfate (ZnSO4).

• Red, or rose, vitriol is cobalt sulfate (CoSO4).

• Uran vitriol is a native uranium sulfate [U(SO4)2].

Q80. Answer: (b) Venus

The correct answer is Venus.

• Venus is made up of thick white and yellowish clouds of sulfuric acid.

Key Points

• Venus:

• The planet is nearest to the Earth and is also the brightest planet.

• Venus is known as the “Evening Star” as well as “Morning Star”.

• Known as the “Veiled Planet”.

• Also known as the “Earth’s twin”. It also rotates clockwise like Uranus.

• Venus is the hottest planet (even hotter than Mercury).

• Venus has no water on it. There is no sufficient oxygen on Venus.

Additional Information Mercury, Venus, Earth and Mars are called terrestrial planets.

• Jupiter, Saturn, Uranus and Neptune are called gaseous planets.

• Uranus is about four times the size of the Earth.

• This planet appears Greenish in colour because of methane gas present in its atmosphere.

• Neptune is surrounded by methane rings of sub-zero temperature.

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Q81. Answer: (d) Persian

The correct answer is Persian.

Key Points

• The Mughal court chronicles were written in Persian.

• Mughal chronicles such as the Akbar Nama were written in Persian, while others, like Babur's memoirs, were translated from Turkish into the Persian Babur Nama.

• Urdu came from the amalgamation of Persian with Hindavi.

• Chronicles commissioned by the Mughal emperors are an important source for studying the empire and its court.

• The authors of Mughal chronicles were mostly courtiers.

• The Mughals were Chaghtai Turks by origin.

• Turkish was their mother tongue hence the first ruler Babur wrote poetry and his memoirs in this language.

Q82. Answer: (b) Sikkim

The correct answer is Sikkim.

• As per state census 2011, which of the Sikkim is the least populous state of India.

Key Points

• The least populated state in the country was Sikkim with a population of 6.71 lakhs.

• According to Census 2011:

• C M Chandramauli was the Registrar General and Census Commissioner of India for the 2011 Indian Census.

• Uttar Pradesh is the most populous state.

• Maharashtra is the second most populous state in India.

• The sex ratio in the country was is 940 females per 1000 males.

• Haryana has the lowest sex ratio with just 877 women per 1000 males.

• Bihar has the highest population density.

• The overall literacy rate in India is 74% according to the 2011 census.

• Bihar is the least literate state in India, with a literacy of 63.82%.

• Goa was the most urbanized state with 62.17% of the population living in urban areas.

Q83. Answer: (c) Payal Jangid

The correct answer is Payal Jangid.

• Payal Jangid became the first Indian to be awarded the ‘Changemaker Award2019’ (given by the Bill and Melinda Gates Foundation) for her work towards the abolition of child marriage in Rajasthan.

Key Points

• Payal Jangid is a 17-year-old youth activist from Rajasthan.

• The Changemaker Award encourages and honours the achievements of young activists, campaigners, and innovators across the world for inspiring social change.

• Payal's activism began when she relented against being married off when she was just 11 years old.

• Payal was mentored by the Nobel Peace Laureate Kailash Satyarthi and child rights activist Sumedha Kailash.

Additional Information

• Goalkeepers Global Goals Award:

• The Goalkeepers Global Goals Award honours individuals for their extraordinary stories of exceptional individuals taking action to bring the Global Goals to life and help achieve them by 2030.

• The awards are presented annually in five categories to leaders and individuals for their efforts in achieving the Sustainable Development Goals (SDGs).

• The categories are Progress, Changemaker, Campaign, Goalkeepers Voice and the Global Goalkeeper.

• The 2019 Goalkeepers Global Goals Award will honour those individuals working to tackle the issues contributing to global inequity.

Q84. Answer: (d) Kamet

The correct answer is Kamet.

• Kamet mountain looks like a giant pyramid and has a flat summit area and two peaks.

• Kamet is the second largest mountain of the Garhwal region of Uttarakhand.

• It is for 7,756 metres.

• Kamet, the mountain peak of the Himalayas in Uttarakhand state, northern India, near the border with the Tibet Autonomous

Region of China.

• It is part of the Zaskar range.

Additional Information

• Nanda Devi (7816 metres):

• It is a part of Himalayan mountain ranges (Garhwal).

• This is the highest peak located entirely within India.

• The Nanda Devi National Prak, located in vicinity to the peak, consists of the best high altitude flora and fauna.

• Saltoro Kangri (7742 meters):

• It is located near the Siachen Region.

• The Saltoro Kangri is ranked the 31st highest independent peak in the world.

• It lies in Saltoro range (a part of Karakoram Mountain range).

Q85. Answer: (a) Sheila Dikshit

The correct answer is Sheila Dikshit.

• Sheila Dikshit wrote the book 'Citizen Delhi: My Life, My Times'.

• The book was published on 10 February 2018.

• Sheila Dixit was known as the longest-serving Chief Minister of Delhi for a period of 15 years.

• Her books are:

• Citizen Delhi: My Times, My Life

• Dilli Meri Dilli.

Key Points

• Famous Books and Authors

Book	Author
The God of Small Things	Arundhati Roy
Kashmir: The Case for Freedom	Arundhati Roy
The Ministry of Utmost Happiness	Arundhati Roy
Lajja	Taslima Nasrin
My Girlhood	Taslima Nasrin
Triple Talaq: Examining Faith	Salman Khurshid
Shame	Salman Rushdie
The Golden House	Salman Rushdie
281 and Beyond	VVS Laxman
Citizen Delhi: My Times, My Life	Sheila Dikshit

Q86. Answer: (c) Airport Authority of India – Navratna

The correct answer is the Airport Authority of India – Navratna.

• Airport Authority of India is a Mini Ratna company.

Key Points

• In February 2009, AAI was granted "Miniratna Category 1 PSE" status by the Government of India.

• Category I CPSEs are the companies which have made profit continuously in the last three years,

• The companies which have made a net profit of Rs. 30 crores or more in one of the three previous years.

• These companies can invest capital expenditure up to Rs. 500 crores or equal to its net worth or which is less without the previous permission of the government.

• The Category I of Miniratna PSU includes 60 companies and Miniratna Category II includes 18 companies.

Additional Information

• A maharatna CPSEs can invest from INR 1,000 crore to INR 5,000 crore.

• PSUs with Maharatna status can invest 15% of their net worth in a project without the prior permission from the Government of India.

Q87. Answer: (c) Samarendra Kumar Mitra

The correct answer is Samarendra Kumar Mitra.

• Samarendra Kumar Mitra designed the first analogue computer in India.

Key Points

• The computer was constructed by Samarendra Kumar Mitra and Indian Statistical Institute (ISI) in 1953.

• The first Electronic Analogue Computer could solve linear equations with ten variables.

• The first fully functioning electronic and digital computer was built in the U.S. was ENIAC.

• It was constructed by J. Presper Eckert and John Mauchly at the Moore School of Electrical Engineering, the University of Pennsylvania for the Army Ordnance Department.

• Charles Babbage is known as the Father of the Computer.

Q88. Answer: (d) Gingee Fort Villupuram District, Tamil Nadu

The correct answer is Gingee Fort Villupuram District, Tamil Nadu.

• Gingee Fort Villupuram District, Tamil Nadu has not been notified as a National Geo-heritage Monument by the Geological Survey of India (GSI).

• The Geological Survey of India identified 26 geological sites till now.

Additional Information

• The Geological Survey of India (GSI) is the organisation that studies various aspects of the Earth forming processes and evolution of life.

• GSI is also the primary custodian of the rocks and fossils of the country.

• GSI has been made the sole custodian and curator of all meteorites within the Indian boundary.

• It has been declared as the nodal agency for collection, preservation, registration, and dissemination of all meteorite falls/finds within the country.

• The declaration was made by the Ministry of Mines.

• The GSI is headquartered in Kolkata.

Q89. Answer: (b) 19 December 1929

The correct answer is 19 December 1929.

• On 19 December 1929 Indian National Congress passed the Resolution of 'Poorna Swaraj'(total independence) at the Lahore Session.

Key Points

• Lahore Session (1929 AD):

• This session was presided over by Jawaharlal Nehru.

• This session passed a resolution of Poorna Swaraj (complete independence) as its ultimate goal.

• All members of the legislature were asked to resign their seats.

• On 31st December 1929, the newly adopted tricolour was hoisted and 26th January 1930 was fixed as the first Independence Day.

• The Congress Session also announced a Civil Disobedience Movement under the leadership of Mahatma Gandhi.

• Congress decided to boycott the first Round Table Conference.

Q90. Answer: (a) Seismograph

The correct answer is Seismograph.

• Seismograph records the waves reaching the surface during an earthquake.

Key Points

• Earthquakes:

• The sudden tremors or shaking of the earth's crust is called an earthquake.

• The earth’s crust is made up of different parts of various sizes. They are called plates.

• Most of the earthquakes in the world are caused by the movements of the plates.

• ‘Seismology’ deals with the study of the earthquake.

• ‘Richter scale’ and ‘Mercalli scale’ are the instruments to measure and record the magnitude and the intensity of an earthquake respectively.

• The place where the seismic waves originate beneath the earth’s surface is called the focus of the earthquake.

• The epicenter is that point on the ground surface that is closest to the focus.

Additional Information

• National Earthquake Science Data Centre is located in New Delhi.
• A chronometer is a portable timekeeping device of great accuracy.
• A barograph is a recording aneroid barometer where the changes in atmospheric pressure are recorded.
• A Manometer is a device to measure pressures.

Q91. Answer: (d) Rohit Sharma

The correct answer is Rohit Sharma.

• Rohit Sharma became the first Indian brand ambassador of La Liga (the top tier of Spanish club football) in December 2019.

Key Points

• Rohit Sharma became the first non-footballer to endorse the La Liga league.
• La Liga is the top tier of Spanish club football.

Additional Information

• The first Football club in India was 'Dalhousie Club'.
• The apex institution of football is the 'Federation of International Football Association' (FIFA), which was formed by seven countries on May 21, 1904.
• The headquarters of FIFA is in Zurich (Switzerland).
• Football was included as a competitive game in the Olympic Games officially in 1908.
• India took part in the World Olympic Football Competition in 1948 in London.

Q92. Answer: (c) Portugal

The correct answer is Portugal.

• On December 2019, the Prime Minister of Portugal announced the commencement of the 'Gandhi Citizenship Education Award' to be given every year.

Key Points

• The Prime Minister of Portugal Antonio Costa announced the Gandhi Citizenship Education Award.
• The award is inspired by Gandhi's thoughts and life, to help perpetuate the ideals of Mahatma Gandhi.
• He also said that Gandhi Citizenship Award will be dedicated to social welfare.
• Portugal's Prime Minister Antonio Costa said that the first year's prize will be dedicated to animal welfare.

Additional Information

• Portuguese in India:
• The Cape route was discovered from Europe to India by Vasco da Gama.
• He reached the port of Calicut on May 17, 1498 AD and was received by the Hindu ruler of Calicut (known by the title of Zamorin).
• This led to the establishment of trading stations at Calicut, Cochin and Cannanore.
• Cochin (1502 AD) was the early capital of the Portuguese in India, later on, replaced by Goa.
• In the reign of Mahmud Beghra, Portuguese set up a factory at Diu.
• The first Governor of Portuguese in India was Francisco Almeida (1509 AD). He introduced "The Policy of Blue Water".
• Alfonso de Albuquerque arrived in India in 1503 AD and became Governor of the Portuguese in India in 1509 AD.
• He captured Goa from the ruler of Bijapur in 1310 AD and introduced the policy of imperialism.
• Nino-da-Cunha (1529 AD-1528 AD) transferred the capital from Cochin to Goa in 1530 AD.
• He acquired Diu and Bassein from Bahadur Shah of Gujarat (1534 AD).
• In the end, they were left only with Goa, Diu and Daman, which they retained till 1961 AD.

Q93. Answer: (c) Losar festival

The correct answer is Losar festival.

• Losar festival marks the beginning of the Tibetan New Year.

Key Points

• The Losar Festival is celebrated with great zeal and fervour in the Lahaul Valley of Himachal Pradesh.
• It is also known as a festival of happiness and prosperity.
• The celebrates the Ladakhi or Tibetan New Year.
• Reviewer do check this one .....multiple places are found celebrating the same fest

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Q94. Answer: (b) 1991–92

The correct answer is 1991–92.

• The ‘Rajiv Gandhi Khel Ratna Award’ instituted was 1991–92.

Key Points

• Rajiv Gandhi Khel Ratna Award is the highest sporting honour given in India.

• The award is named after Rajiv Gandhi.

• He was the Prime Minister of India who served from 1984 to 1989.

• Chess Grandmaster Viswanathan Anand was the first recipient of this award.

• The other Sports Awards include the Arjuna Award, Dronacharya Award and the Dhyan Chand Award, which are conferred every year by the President of India at the Rashtrapati Bhavan on August 29.

• The National Sports Day is celebrated on August 29.

• It is the birth anniversary of hockey wizard Dhyan Chand.

Q95. Answer: (a) 4^(th)

The correct answer is 4th

• India’s rank in the world in terms of military power as per the ‘Global Firepower Nations Index 2019’ was 4^(th).

Key Points

• The Global index was prepared by considering 138 countries.

• India is behind of US, Russia and China in the list respectively.

• India was followed by countries like France, UK, Japan, Turkey and Germany.

• The ranking is prepared based on 50 parameters out of which military resources, natural resources, industry and geographical features are major ones.

Additional Information

• India is ranked at number 23 on a list of global arms exporters.

• India is the second biggest arms importer.

• The data on international arms transfers is released by the Stockholm International Peace Research Institute.

Q96. Answer: (a) Hemant Soren

The correct answer is Hemant Soren.

• Hemant Soren was sworn in as the 11th Chief Minister of Jharkhand on 29 December 2019.

Key Points

• Hemant Soren took oath as the 11th Chief Minister of Jharkhand on December 2019 at the Morabadi Ground in Ranchi.

• The then Governor Droupadi Murmu administered the oath of secrecy and office to Hemant Soren.

• Hemant Soren is the President of the Jharkhand Mukti Morcha.

• This is the second term of Hemant Soren as the Chief Minister of the state.

• Earlier, Hemant Soren served as the 5th Chief Minister of the state from July 2013-December 2014.

• He belongs to the Santhal ethnic tribal community.

Additional Information

• Shibu Soren is the father of Hemant Soren and was also a three-time Chief Minister.

• Raghubar Das served as the sixth Chief Minister of Jharkhand.

• Alamgir Alam is an MLA from the Pakaur constituency in the Jharkhand.

Q97. Answer: (a) Access

The correct answer is Access.

• In DASD, the full form of ‘A’ is Access.

Key Points

• Direct access storage device is a general term for magnetic disk storage devices.

• It has been used in the mainframe and minicomputer environments and is sometimes used to refer to hard disk drives for personal computers.

• A redundant array of independent disks (RAID) is also a type of DASD.

• The term "direct access" means all data can be accessed directly in the same amount of time rather than having to progress sequentially through the data.

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Q98. Answer: (a) Dmitri Mendeleev

The correct answer is Dmitri Mendeleev.

• Dmitri Mendeleev arranged the Periodic Table of Elements in the order of increasing atomic masses.

Key Points

• Father of the Periodic Table is Mendeleev.

• Mendeleev's Periodic Table (1869)

• It is based upon the Mendeleev's periodic law, which states, "Properties of the elements are the periodic function of their atomic masses."

• Modern Periodic Law: Modern periodic law was given by Moseley.

• According to Moseley: "The physical and chemical properties of the elements are the periodic function of their atomic numbers."

• Modern Periodic Table:

• It is just a graphical representation of the Aufbau configuration of elements and contains 118 elements.

• Modern periodic table is classified as:

• s-block;

• p-block;

• d-block;

• f-block.

Additional Information

• Boyle's Law states that at a constant temperature, the volume of a definite mass of a gas is inversely proportional to pressure.

• William Ramsay was a Scottish chemist who discovered the noble gases and received the Nobel Prize in Chemistry in 1904.

Q99. Answer: (a) 1928

The correct answer is 1928.

• In 1928 Motilal Nehru (Chairman) and eight other Congress leaders draft a constitution for India.

Key Points

• Nehru Report (1928 AD):

• Nehru report was tabled in 1928 AD by Motilal Nehru.

• It remains memorable as the first major Indian effort to draft a constitutional framework for India.

• The recommendations evoked a debate concerning the goal of India-Dominion status of complete independence.

• Other members of the committee were Tej Bahadur Sapru, Ali Imam, M.S. Aney, Mangal Singh, Sohaib Qureshi, G.R. Pradhan and Subhash Chandra Bose.

• Recommendations of the Nehru Report:

• Dominion status

• Rejection of separate electorates.

• Linguistic provinces.

• Nineteen fundamental rights including equal rights fr women.

• Full protection to cultural and religious interests of Muslims.

• Complete dissociation of religion from the state.

Additional Information

• Jinnah's 14 points (9th March 1929 AD):

• Jinnah, the leader of the Muslim League did not accept the Nehru Report and drew up a list of fourteen demands, which became famous as 14 points of Jinnah.

Q100. Answer: (d) Protection of monuments and places and objects of national importance

The correct answer is the Protection of monuments and places and objects of national importance.

• The provision of Article 49 of the Constitution of India Protection of monuments and places and objects of national importance.

Key Points

• Directive Principles of State Policy:

• The Directive Principles of State Policy are enumerated in Part IV of the Constitution from Articles 36 to 51.

• They embody the concept of a welfare state.

• These are fundamental in the governance of the country.

• They are non-justifiable.

• They apply to both Union and State Governments and all other authorities coming under the definition of 'State'.

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Additional Information

• Article 51: To promote international peace and security and to maintain just and honourable relations between nations; to foster respect for international law and treaty obligations, and to encourage settlement of international disputes by arbitration.

• Article 45: To provide early childhood care and education for all children until they complete the age of six years.

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