SSC CHSL Tier-1 2022: Official Paper (Held On: 21 March, 2023 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2022 • 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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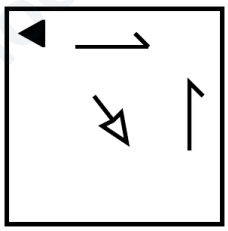
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ENGLISH LANGUAGE

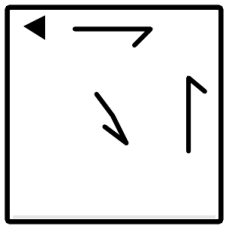
Q1. Select the figure from the given options that can replace the question mark (?) in the following series.



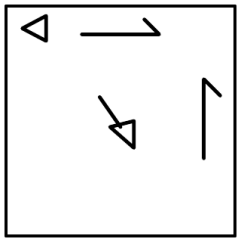
(a)



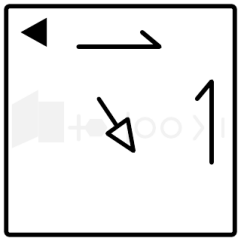
(b)



(c)



(d)



Q2. After arranging the given words according to dictionary order, which word will come at 'Fourth' position?

1. Morning
2. More
3. Moral
4. Morbid
5. Morale

(a) More
(b) Moral
(c) Morale
(d) Morning

Q3. In a certain code language, 'INTERNAL' is coded as ' 91320221813115 ', 'MOUNTAIN' is coded as '131221132026913'. What is the code for 'PAYMENTS' in that code language?

(a) 16262514413208
(b) 16262514513280
(c) 16262514513208
(d) 16252614513208

Q4. By interchanging the given two signs which of the following equation will be correct?

× and -

I. 11 + 6 × 8 - 8 ÷ 2 = 15

II. 15 - 4 × 3 + 6 ÷ 1 = 63

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

Q5. In the following question, select the odd letter/letters from the given alternatives.

(a) RTW
(b) PSV
(c) ADG
(d) ILO

Q6. Words given on the left side of (::) are related with each other by some Logic/Rule/Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.

Den : Lion :: Web : ?

(a) Eskimo
(b) Mouse
(c) Spider
(d) Bird

Q7. Select the option in which the numbers share the same relationship in set as that shared by the numbers in the given set.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.

E.g.13 - Operations on 13 such as adding /subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

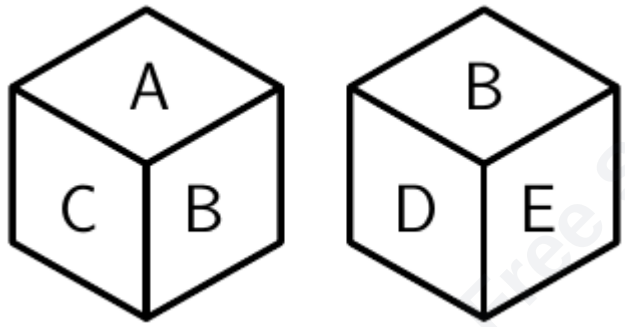
(286, 456, 340)

(347, 592, 490)

(a) (456, 666, 400)
(b) (782, 907, 230)
(c) (198, 279, 162)
(d) (324, 419, 210)

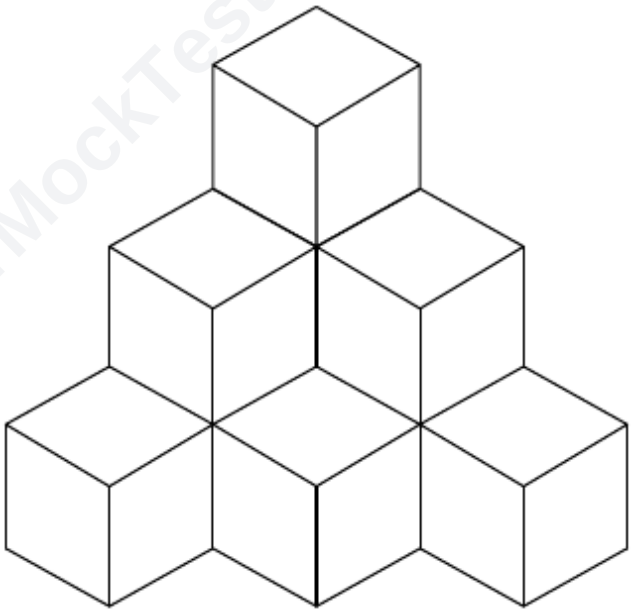
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Q8. Two different positions of the same dice are given below. Find the alphabet opposite of C.



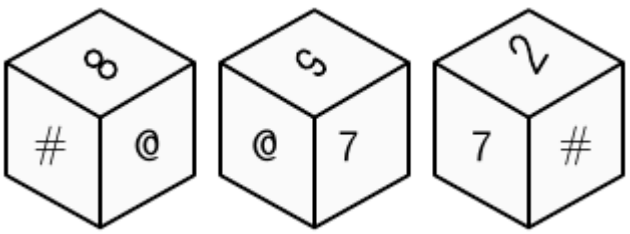
(a) E
(b) A
(c) B
(d) D

Q9. Find the total number of cubes in the figure.



(a) 8
(b) 11
(c) 10
(d) 9

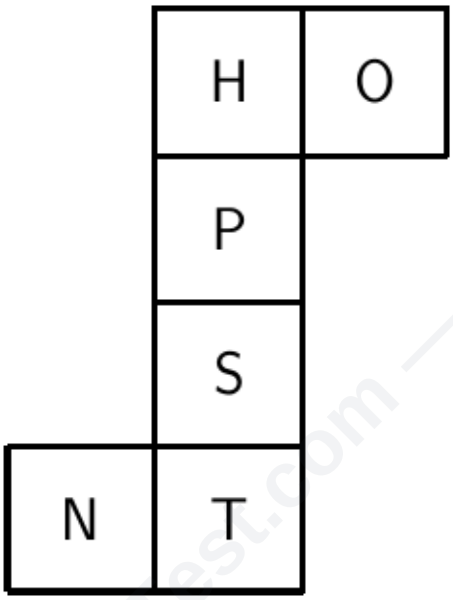
Q10. Three positions of a dice are given below. What will come on the face opposite to the face containing '9' on it?



(a) #
(b) 7
(c) 2
(d) 8

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Q11. A cube is made by folding the given sheet. In the cube so formed, which letter will be on the face opposite to the face showing 'H'?



(a) T
(b) O
(c) S
(d) N

Q12. Words given on the left side of (::) are related with each other by some Logic/Rule/Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.

Scooter : Vehicle :: Pencil : ?

(a) Pen
(b) Stationery
(c) Write
(d) Lead

Q13. In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

I. Some jungle are green.

II. No blue is green.

Conclusion:

I. No green is blue.

II. Some green are jungle.

III. No jungle is blue.

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

Q14. Select the option in which the numbers share the same relationship in set as that shared by the numbers in the given set.

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

(413, 662, 911)

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(387, 636, 885)

(a) (287, 536, 785)

(b) (403, 652, 907)

(c) (521, 770, 1009)

(d) (311, 560, 799)

Q15. H is the brother of I. G is the brother of H. I is the son of J. J is the sister of K. How is J related to G?

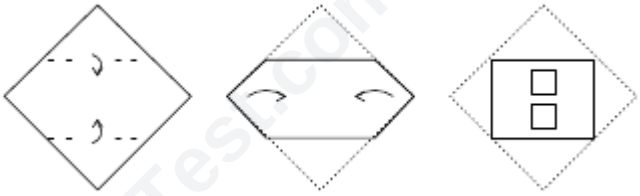
(a) Mother in law

(b) Daughter

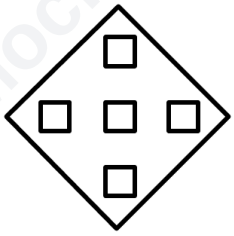
(c) Paternal Aunt

(d) Mother

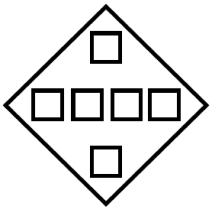
Q16. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



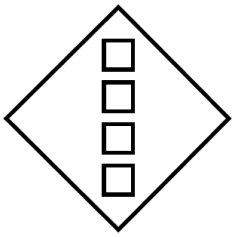
(a)



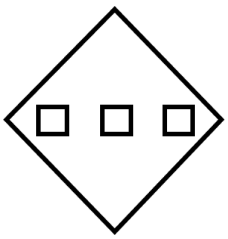
(b)



(c)



(d)

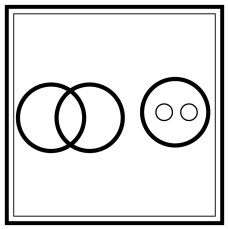


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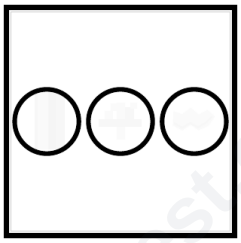
Q17. Select the Venn diagram that best represents the relationship between the following classes.

Engineers, Lawyers and married people

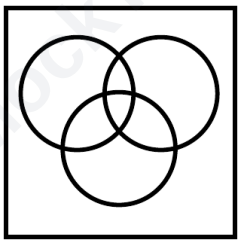
(a)



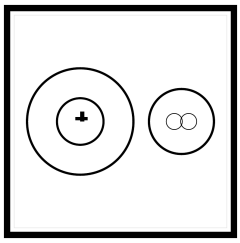
(b)



(c)



(d)



Q18. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

OLR, REZ, UXH, XQP, ?

(a) ALX
(b) BJY
(c) AJX
(d) AQX

Q19. Select the option in which the numbers shares the same relationship in set as that shared by the numbers in the given set.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.

E.g.13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(17, 51, 153)

(32, 96, 288)

(a) (73, 229, 657)
(b) (81, 343, 729)

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(c) (14, 48, 154)
(d) (42, 126, 378)

Q20. If 8 A 7 = 56 and 9 A 11 = 99, then 16 A 15 = ?
(a) 280
(b) 220
(c) 260
(d) 240

Q21. In a certain code language, 'DECENT' is coded as 'VPGEGF'. What is the code for 'ENERGY' in that code language?
(a) AITGQG
(b) AITGPG
(c) AllGPG
(d) AITHPG

Q22. Words given on the left side of (::) are related with each other by some Logic/Rule /Relation. Select the missing word/word pair on the right side of (::) from the given alternatives based on the same Logic/Rule/Relation.
Ring : Boxing :: Rink : ?
(a) Athletics
(b) Skating
(c) Badminton
(d) Cricket

Q23. In the following question, select the odd word pair from the given alternatives.
(a) Physiology - Body
(b) Pedology - Fishes
(c) Entomology - Insects
(d) Selenography - Moon

Q24. In the following question, select the missing number from the given series.
2, 4, 7, 11, 16, ?
(a) 22
(b) 25
(c) 23
(d) 24

Q25. Select the option that is related to the fourth number in the same way as the first number is related to the second number and fifth number is related to sixth number.
8 : 128 :: ? : 176 :: 16 : 256
(a) 22
(b) 2
(c) 14
(d) 11

GENERAL INTELLIGENCE

Q26. What is the sex ratio of India as per 2011 census?
(a) 843 females per 1000 males
(b) 943 females per 1000 males
(c) 643 females per 1000 males
(d) 743 females per 1000 males

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Q27. Which of the following is NOT a permanent wind?

(a) Westerlies
(b) Loo
(c) Easterlies
(d) Trade winds

Q28. Graphical User Interface (GUI) was developed during which of the following generations of computer?

(a) Fourth Generation
(b) Second Generation
(c) First Generation
(d) Third Generation

Q29. In July 2022, who among the following has notified the detailed framework for Social Stock Exchange (SSE)?

(a) Ministry of corporate affairs
(b) RBI
(c) SEBI
(d) NITI Aayog

Q30. "Statue of Equality" has been inaugurated in Hyderabad in the memory of _____.

(a) Saint Ramanujacharya
(b) Swami Vivekananda
(c) Swami Dayananda
(d) Shri Ravi Das

Q31. In which of the following cities of the Indus valley civilization has a dockyard been found?

(a) Lothal
(b) Chanhudaro
(c) Kalibangan
(d) Dholavira

Q32. A free-market economy is a crucial aspect of _____.

(a) Socialism
(b) Capitalism
(c) Feudalism
(d) Functionalist

Q33. What is the maximum number of electrons that the third orbit or M-shell can have?

(a) 32
(b) 8
(c) 18
(d) 2

Q34. Qutub Minar is an example of _____ architecture.

(a) Indo-Islamic
(b) Dravidian
(c) Sufi
(d) Mauryan

Q35. Swami Vivekananda's death anniversary is observed on _____.

(a) July 1
(b) July 4
(c) August 1
(d) August 4

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Q36. The sensation of feeling full is because of a centre associated with hunger, which is in a separate part of the _____.

(a) Pituitary gland
(b) Midbrain
(c) Forebrain
(d) Hindbrain

Q37. Who among the following Indian athletes won a silver medal in 2022 Commonwealth Games?

I. Avinash Sable
II. Ravi Kumar Dahiya

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

Q38. Who among the following was awarded with the 2022 Pulitzer Prize in Feature Photography category?

(a) K.R. Meera
(b) Syeda Hameed
(c) Bibek Debroy
(d) Amit Dave

Q39. Which of the following is correct regarding the National Income?

I. Intermediate goods are not included in the calculation of national income.
II. Final goods are included in the calculation of national income.

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

Q40. Which of the following statement is NOT correct regarding Rutherford's nuclear model of an atom?

(a) The size of the nucleus is very large as compared to the size of the atom.
(b) The electrons revolve around the nucleus in circular paths.
(c) There is a positively charged centre in an atom called the nucleus.
(d) Nearly all the mass of an atom resides in the nucleus.

Q41. Which of the following is a vulnerable species?

(a) Himalayan brown bear
(b) Hornbill
(c) Asiatic cheetah
(d) Asiatic elephant

Q42. Which of the following straits is located between the Java Sea and the Indian Ocean?

(a) Palk
(b) Malacca
(c) Sunda
(d) Cook

Q43. Which country hosted the ICC Women's T20 World Cup 2023?

(a) England
(b) South Africa
(c) Australia
(d) India

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Q44. Which of the following is NOT a type of paragraph formatting in MS-Word 365?

(a) Right
(b) Precise
(c) Justify
(d) Centre

Q45. Aditi Mangaldas is a leading dancer \& Choreographer in the classical Indian dance form of _____.

(a) Bharatanatyam
(b) Kuchipudi
(c) Kathak
(d) Kathakali

Q46. Which among the following is the oldest High Court in India?

(a) Allahabad
(b) Telangana
(c) Calcutta
(d) Andhra Pradesh

Q47. Article 76 of the Indian constitution is related with the office of which of the following?

(a) Prime Minister of India
(b) President of India
(c) Vice - President of India
(d) Attorney General of India

Q48. How many bronze medals did India win in the 2022 Commonwealth Games?

(a) 27
(b) 25
(c) 21
(d) 23

Q49. Who was the Indian captain for ICC Men's T20 World Cup 2022?

(a) Rohit Sharma
(b) Rishabh Pant
(c) Hardik Pandya
(d) Virat Kohli

Q50. The Pitts India Act of distinguished between the commercial and political functions of the British East India Company.

(a) 1818
(b) 1792
(c) 1784
(d) 1802

QUANTITATIVE APTITUDE

Q51. PM is the median of ΔPQR. O is the centroid of ΔPQR. If PO = 27 cm, then what is the length of PM?

(a) 18 cm
(b) 54 cm
(c) 40.5 cm
(d) 12 cm

Q52. What is the sum of all three digit numbers which are divisible by 20?

(a) 19400
(b) 20500
(c) 24300
(d) 21800

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Q53. Average weight of 10 persons is 40 kg. A new person join the group and average weight of 11 persons becomes 42 kg. What will be the weight of new person?

(a) 58 kg
(b) 60 kg
(c) 62 kg
(d) 64 kg

Q54. What is the value of cosec A (1 - cos A) (cosec A + cot A)?

(a) 2
(b) 1
(c) 0
(d) 3

Q55. In how much time will a sum of Rs. 12500 amounts to Rs. 20000 at the rate of 8 percent per annum at simple interest?

(a) 10 years
(b) 7.5 years
(c) 8 years
(d) 12.5 years

Q56. In a school there are total 414 students. The ratio of boys and girls is 5 : 4. If 46 more boys gets admitted into the school, then what will be the new ratio of boys and girls?

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

Q57. What is the total surface area of a cylinder having radius of base as 7 cm and height as 5 cm?

(a) 426 cm^2
(b) 528 cm^2
(c) 428 cm^2
(d) 572 cm^2

Q58. What is the value of (3/4 ÷ 9/64+7/11 × 121/14-9/13 × 65/36)/(1/2 ÷ 4/5+3/4 × 16/15) ?

(a) 1169/143
(b) 1150/171
(c) 1413/157
(d) 1216/141

Q59. Tangent drawn from a point P, touches the circle at Q. O is the centre of this circle. If PQ = 12 cm and OQ = 5 cm, then what is the value of OP?

(a) 15 cm
(b) √119 cm
(c) √179 cm
(d) 13 cm

Q60. The average of 5 consecutive even numbers is A. If next 5 even numbers are also included, then what is the average of these 10 numbers?

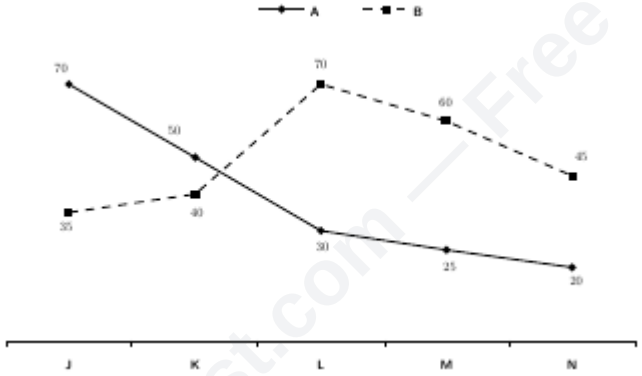
(a) A + 7
(b) A + 2
(c) A + 9
(d) A + 5

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Q61. If sin A=6/7, then what is the value of sec A?

(a) 1/√13
(b) 7/√13
(c) 6/√13
(d) 4/√13

Q62. The line chart given below shows production of sugar by two companies A and B in 5 years.



Which of the following statement is correct?

I. The production of sugar by A in years J and K together is 7.69 percent more the production of sugar by B in year L and M together.

II. The ratio of combined production of sugar by B in years M and N to the combined production of sugar by A in years K and L is 21 : 16.

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

Q63. A person goes to his office by scooter at the speed of 80 km/hr and reaches 60 minutes earlier. If he goes at the speed 50 km/hr, then he reaches 48 minutes late. What will be the speed of the scooter to reach on the usual time?

(a) 64 km/hr
(b) 66 km/hr
(c) 60 km/hr
(d) 62 km/hr

Q64. P is 20 percent more than Q and Q is 30 percent less than R. If P is 420, then what is the value of R?

(a) 600
(b) 500
(c) 625
(d) 700

Q65. An article is sold for Rs. 1,260 after giving a discount of 40%. What is the marked priced of this article?

(a) Rs. 2,100
(b) Rs.1,800
(c) Rs. 2,200
(d) Rs. 2,000

Q66. If $(2\cos^3 A - \cos A) = (\sin A - 2\sin^3 A)$, then what is the value of A?

(a) 90°
(b) 30°
(c) 45°
(d) 60°

Q67. The table given below shows the cost price and selling price of four articles.

Articles	Cost price	Selling price
P	300	250
Q	400	375
R	350	250
S	500	350

What is the average value of loss of all articles?

(a) 60.75
(b) 95.55
(c) 81.25
(d) 72.24

Q68. A and B together can complete a work in 20 days. A is 20 percent more efficient than B. B alone can complete the same work in how many days?

(a) 66 days
(b) 33 days
(c) 44 days
(d) 55 days

Q69. If $K/(k^2-2\ \sim K+1)=1/6$, then what is the value of $1/(\sim K^3)+K^3$?

(a) 472
(b) 492
(c) 512
(d) 488

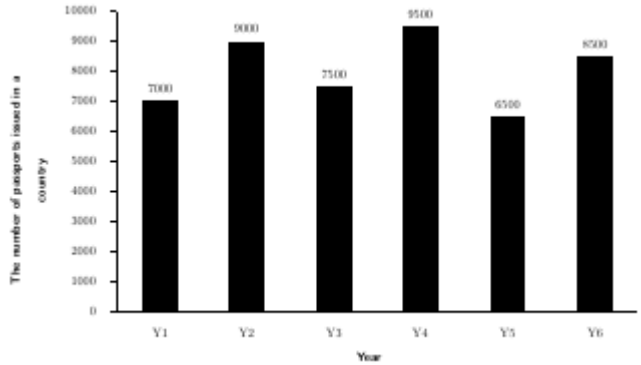
Q70. ΔABC is similar to ΔPQR. AB = 4 cm, BC = 8 cm and AC = 10 cm. If QR = 16 cm, then what is the area of ΔPQR in cm^2?

(a) $2\sqrt{231}\ cm^2$
(b) $4\sqrt{231}\ cm^2$
(c) $4\sqrt{462}\ cm^2$
(d) $8\sqrt{462}\ cm^2$

Q71. Angle subtended by a chord PQ on the centre of the circle is 140 degree. What will be the angle subtended by the chord PQ on the major arc of the circle?

(a) 80 degree
(b) 60 degree
(c) 35 degree
(d) 70 degree

Q72. The bar graph shows the number of passports issued in a country in 6 consecutive years.



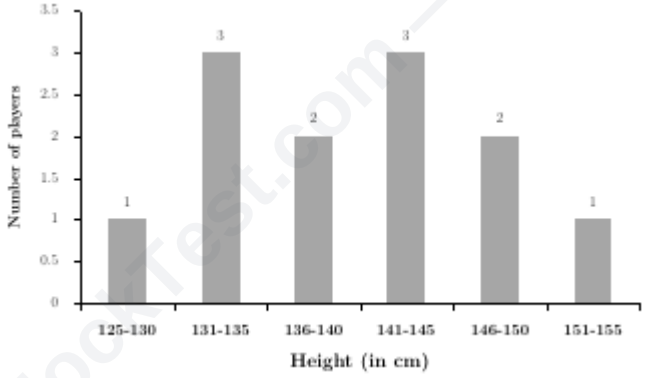
What is the average number of passports issued per year?

(a) 11200
(b) 7600
(c) 8000
(d) 12000

Q73. If (a + b) = 16 and $a^3 + b^3 = 1456$, then what is the value of ab?

(a) 50
(b) 48
(c) 64
(d) 55

Q74. The following histogram shows the height of players of a basketball team of a school.



How many players have height less than 141 cm?

(a) 7
(b) 4
(c) 6
(d) 5

Q75. A woman buys a watch for Rs. 4,000 and sells it at a loss of 13%. What is the selling price of the watch?

(a) Rs. 3,480
(b) Rs. 3,500
(c) Rs. 3,840
(d) Rs. 3,620

GENERAL AWARENESS

Q76. Choose the word that means the same as the given word.

Soar

(a) Sweet
(b) Fly
(c) Bitter
(d) Sour

Q77. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.

To miss the bus

(a) Short lived glory
(b) To lose an opportunity
(c) Escape by a thin margin
(d) A problem in a situation

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Q78. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

Workers and companies in all sectors can contribute their skills to meet society new needs.

(a) sectors can contribute their skills
(b) No error
(c) to meet society new needs.
(d) Workers and companies in all

Q79. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

We keeps a horse, two cows, and six chickens.

(a) has keeps a
(b) keep a
(c) keeping a
(d) No improvement

Q80. Select the correct indirect form of the given sentence.

Miranda said to her teacher, "I was sick for a day."

(a) Miranda told her teacher that she has been sick for a day.
(b) Miranda told her teacher that she is sick for a day.
(c) Miranda told her teacher that she was sick for a day.
(d) Miranda told her teacher that she had been sick for a day.

Q81. Select the word that is opposite in meaning (ANTONYM) to the word given below.

Fanatic

(a) Militant
(b) Moderate
(c) Sectarian
(d) Zealot

Q82. Choose the sentence with no spelling error.

(a) He semed to be taller than him.
(b) He seemed to be taller than him.
(c) He seemed to be taler than him.
(d) He seemed to bee taller then him.

Q83. Choose the word that is opposite in meaning to the given word.

Recondite

(a) Abstruse
(b) Phlegm
(c) Clear
(d) Abstract

Q84. Choose the word that can substitute the given group of words.

A fall of water from a great height

(a) River
(b) Stream
(c) Typhoon
(d) Cascade

Q85. Rearrange the parts of the sentence in correct order.

P. undermining the strict application of comparative anthropology
Q. in the early 20th century it was almost universally assumed
R. that traditional cultures would be completely assimilated
S. into colonial cultures within a few decades, thus

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(a) PQRS
(b) PSQR
(c) QPRS
(d) QRSP

Q86. Select the correct passive form of the given sentence.

Susan writes recipes for the cookbook.

(a) Recipes are write by Susan for the cookbook.
(b) Recipes were written by Susan for the cookbook.
(c) Recipes are written by Susan for the cookbook.
(d) Recipes are being written by Susan for the cookbook.

Q87. Rearrange the parts of the sentence in correct order.

Some algal blooms

P. beneficial to aquatic life, since these tiny

Q. nutrient conditions are optimal, and they can be

R. occur naturally when temperature, water, and

S. organisms form the base of the food chain

(a) RQPS
(b) PRSQ
(c) QPRS
(d) RQSP

Q88. Improve the underlined part of the sentence. Choose 'No improvement' as an answer if the sentence is grammatically correct.

If proper treat, the wound should heal within a few weeks.

(a) proper treated
(b) properly treated
(c) properly treatment
(d) No improvement

Q89. Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

We have more then 6 years of experience in field hockey.

(a) then 6 years of
(b) We have more
(c) experience in field hockey.
(d) No error

Q90. Choose the word that is opposite in meaning to the given word.

Algid

(a) Algae
(b) Gelid
(c) Igneous
(d) Clean

Q91. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement'.

But what of the young people whom are part of the cricket crowds, some of who are presumably born in England?

(a) who are part of the cricket crowds, some of who are presumably born in England
(b) No improvement
(c) whom are part of the cricket crowds, some of whom are presumably born in England
(d) who are part of the cricket crowds, some of whom are presumably born in England

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Q92. Choose the incorrectly spelt word.

(a) Cream
(b) Sleam
(c) Beam
(d) Steam

Q93. Given below are four jumbled sentences. Pick the option that gives their correct order.

P. In July 1977, Marley was found to have a type of malignant melanoma (cancer) under the nail of a toe.

Q. He died on 11 May 1981 at Cedars of Lebanon Hospital in Miami (now University of Miami Hospital) at the age of 36.

R. Despite his illness, he continued touring until his health deteriorated as the cancer had spread throughout his body.

S. Marley turned down his doctors' advice to have his toe amputated, citing his religious beliefs.

(a) PSRQ
(b) PQSR
(c) RSQP
(d) PSQR

Q94. In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.

To have a nodding acquaintance

(a) To have a great experience
(b) To neglect all the parameters
(c) Know somebody/something slightly
(d) To have nothing in common

Q95. Fill in the blank with an appropriate option.

Taking a deep, _____ breath, I start again, successfully loading the filter and placing the cup underneath.

(a) penetrating
(b) surrogating
(c) calming
(d) jamming

Directions

In the following passage some of the words have been deleted. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Yes, there's definitely something to be said about (1)____ the perfect cup of coffee. I'm staring (2)___ the machine again, but today I'm smiling. I've done it - the correct amount of foam, the (3)____ like silk and the little dusting of chocolate, (4)____ a perfect heart on the top. It's just a shame that it's me who is drinking it, not a/an (5)_____ customer.

Q96. Select the most appropriate option to fill in blank number 1.

(a) sobbing
(b) making
(c) breaking
(d) loading

Q97. Select the most appropriate option to fill in blank number 2.

(a) of
(b) at
(c) to
(d) on

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Q98. Select the most appropriate option to fill in blank number 3.

(a) cruelty
(b) irrationality
(c) rigidity
(d) smoothness

Q99. Select the most appropriate option to fill in blank number 4.

(a) forming
(b) formerly
(c) forcing
(d) formation

Q100. Select the most appropriate option to fill in blank number 5.

(a) appreciative
(b) calculative
(c) famished
(d) satiated

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) [figure]

The pattern followed here is:

1) Middle arrow is rotated 45º in clockwise direction in every next figure.

2) Left bottom corner triangle is shifted towards right bottom corner of the next figure and rotated 90º degree in clockwise direction and turn into shaded portion, so on in the next figure.

3) Side half arrow is shifted one place to adjacent in the anti clockwise direction in every next figure.

Hence, the correct answer is "Option 1".

Q2. Answer: (a) More

The correct order as per the dictionary is,

3) Moral

5) Morale

4) Morbid

2) More

1) Morning

Here, we can see that the word at the fourth position is More.

Hence, the correct answer is "More".

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Q3. Answer: (c) 16262514513208

The logic followed here is:

Logic:

Step 1: Positional value of the odd letter.

Step 2: Opposite positional value of even letter.

'INTERNAL' is coded as ' 91320221813115'

And,

'MOUNTAIN' is coded as '131221132026913'

Similarly,

'PAYMENTS' is coded as '?'

Hence, the correct answer is "16262514513208".

Q4. Answer: (a) Only II

After interchanging × and -, the equations we get:

I. 11 + 6 - 8 × 8 ÷ 2 = 15

→ 11 + 6 - 8 × 4 = 15

→ 11 + 6 - 32 = 15

→ 17 - 32 = 15

→ - 15 ≠ 15

→ LHS ≠ RHS

II. 15 × 4 - 3 + 6 ÷ 1 = 63

→ 15 × 4 - 3 + 6 = 63

→ 60 - 3 + 6 = 63

→ 66 - 3 = 63

→ 63 = 63

→ LHS = RHS

→ Here, we can see that only equation II is correct.

Hence, the correct answer is "Only II".

Q5. Answer: (a) RTW

The logic followed here is:

Logic: Addition of +3 in first and second letter.

1) RTW

2) PSV

3) ADG

4) ILO

Clearly, RTW is different from others.

Hence, the correct answer is "RTW".

Q6. Answer: (c) Spider

The logic followed here is:

Logic: The second word is an animal, and the first word is its shelter.

Den : Lion

→ Lion lives in the Den.

Similarly,

Web :?

→ Spider lives in the web.

Hence, the correct answer is "Spider".

Q7. Answer: (c) (198, 279, 162)

The pattern followed here is:

Logic: (Second number - First number) × 2 = Third number.

Given:

(286, 456, 340)
=> (456 - 286) × 2
=> 170 × 2 = 340
And,
(347, 592, 490)
=> (592 - 347) × 2
=> 245 × 2 = 490
Let's check each option one by one.
1) (456, 666, 400)
=> (666 - 456) × 2
=> 210 × 2 = 420 ≠ 400. (Incorrect)
2) (782, 907, 230)
=> (907 - 782) × 2
=> 125 × 2 = 250 ≠ 230. (Incorrect)
3) (198, 279, 162)
=> (279 - 198) × 2
=> 81 × 2 = 162 = 162. (Correct)
4) (324, 419, 210)
=> (419 - 324) × 2
=> 95 × 2 = 190 ≠ 210. (Incorrect)
Hence, the correct answer is "(198, 279, 162)".

Q8. Answer: (a) E

The pattern followed here is:
Given:
Here, B is common in both the dice and rotated clockwise direction from the common face.
Opposite faces are:
=> C <=> E
=> A <=> D
Clearly, E is the opposite alphabet of C.
Hence, the correct answer is "E".

Q9. Answer: (c) 10

The number of cubes is as follow.
Cubes in first row = 6
Cubes in second row = 3
Cubes in third row = 1
=> 6 + 3 + 1 = 10
Hence, the correct answer is "10".

Q10. Answer: (a) #

The pattern followed here is:
Given:
From dice number (1) and (2).
Here, @ is common in both the dice and rotated in clockwise direction from the common face.
Opposite faces:
=> # <=> 9
=> 8 <=> 7
Clearly, # is the opposite of 9.
Hence, the correct answer is "#".

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Q11. Answer: (c) S

The pattern followed here is:

Given:

Opposite face:

=> H <=> S

=> P <=> T

=> O <=> N

Clearly, S is opposite to H.

Hence, the correct answer is "S".

Q12. Answer: (b) Stationery

The logic followed here is:

Logic: The first word is a type of the second word.

Scooter : Vehicle

→ Scooter is a type of Vehicle.

Similarly,

Pencil :?

→ Pencil is a type of stationery.

Hence, the correct answer is "Stationery".

Q13. Answer: (d) Both conclusions I and II follows

The least possible Venn diagram is given below according to the given information.

Conclusion:

I. No green is blue → Follow → (As no blue is green. So, No green is blue is definitely followed)

II. Some green are jungle → Follow → (As some jungle are green. So, some green are jungle is definitely followed)

III. No jungle is blue → Does not follow → (As some jungle are green and no blue is green. So no jungle is blue is not definitely followed)

So, Both conclusions I and II follows.

Hence, the correct answer is "Option 4".

Q14. Answer: (a) (287, 536, 785)

The pattern followed here is:

Logic: Addition of +249 in each number.

Given:

(413, 662, 911)

=> 413 + 249 = 662

=> 662 + 249 = 911

And,

(387, 636, 885)

=> 387 + 249 = 636

=> 636 + 249 = 885

Let's check each option one by one.

1) (287, 536, 785)

=> 287 + 249 = 536

=> 536 + 249 = 785. (Correct)

2) (403, 652, 907)

=> 403 + 249 = 652

=> 652 + 249 = 901 ≠ 907. (Incorrect)

3) (521, 770, 1009)

=> 521 + 249 = 770

=> 770 + 249 = 1019 ≠ 1009. (Incorrect)

4) (311, 560, 799)

=> 311 + 249 = 560

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=> 560 + 249 = 809 ≠ 799. (Incorrect)
Hence, the correct answer is "(287, 536, 785)".

Q15. Answer: (d) Mother

The pattern followed here is:
Given: H is the brother of I. G is the brother of H. I is the son of J. J is the sister of K.
Clearly, J is the mother of G.
Hence, the correct answer is "Mother".

Q16. Answer: (c) [figure]

When the paper is unfolded, the image we get is shown below:
Hence, the correct answer is "Option 3".

Q17. Answer: (c) [figure]

The correct venn diagram representing the relationship between Engineers, Lawyers and married people is:
Hence, the correct answer is "Option 3".

Q18. Answer: (c) AJX

Hence, the correct answer is "AJX".

Q19. Answer: (d) (42, 126, 378)

The pattern followed here is:
Logic: Each number is multiply by 3.
Given:
(17, 51, 153)
=> 17 × 3 = 51
=> 51 × 3 = 153
And,
(32, 96, 288)
=> 32 × 3 = 96
=> 96 × 3 = 288
Let's check each option one by one.
1) (73, 229, 657)
=> 73 × 3 = 219 ≠ 229
=> 229 × 3 = 687 ≠ 657. (Incorrect)
2) (81, 343, 729)
=> 81 × 3 = 243 ≠ 343
=> 343 × 3 = 1029 ≠ 729. (Incorrect)
3) (14, 48, 154)
=> 14 × 3 = 42 ≠ 48
=> 48 × 3 = 144 ≠ 154. (Incorrect)
4) (42, 126, 378)
=> 42 × 3 = 126
=> 126 × 3 = 387 (Correct)
Hence, the correct answer is "(42, 126, 378)".

Q20. Answer: (d) 240

The pattern followed here is.
Logic: Here 'A' is replace with '×'
Given:
1) 8 A 7
=> 8 × 7 = 56
And,
2) 9 A 11

=> 9 × 11 = 99
Similarly,
3) 16 A 15
=> 16 × 15 = 240
Hence, the correct answer is "240".

Q21. Answer: (b) AITGPG

The logic followed here is:
Logic: 2 has been added in the letter's positional value to get the diagonally opposite terms.
DECENT: VPGEGF
ENERGY:?
Hence, the correct answer is "AITGPG".

Q22. Answer: (b) Skating

The logic followed here is:
Logic: The second word is a sport, and the first word is the place where the sport is played.
Ring : Boxing
→ Boxing is played in the Ring.
Rink :?
→ Skating is played in the Rink.
Hence, the correct answer is "Skating".

Q23. Answer: (b) Pedology - Fishes

The logic followed here is:
Logic: The first word represents the field of study, and the second word represents the field.
Let's check each option as per the logic,
1) Physiology - Body
→ Physiology is the study of the functions of the body.
2) Pedology - Fishes
→ Pedology is the study of soils, not fishes. => Doesn't follow the logic.
3) Entomology - Insects
→ Entomology is the study of insects.
4) Selenography - Moon
→ Selenography is the study of the surface and physical features of the moon.
Here, we can see that only Option 2 doesn't follow the logic.
Hence, the correct answer is "Pedology - Fishes".

Q24. Answer: (a) 22

The logic followed here is:
Logic: Consecutive numbers starting from 2 has been added to the terms to get the next term of the series.
Hence, the correct answer is "22".

Q25. Answer: (d) 11

The pattern followed here is:
Logic: (First number × 16) = Second number.
1) 8 : 128
=> 8 × 16 = 128
And,
2) 16 : 256
=> 16 × 16 = 256
Similarly,
3) ? : 176
=> 176 ÷ 16 = 11
Hence, the correct answer is "11".

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Q26. Answer: (b) 943 females per 1000 males

The correct answer is 943 females per 1000 males.

Key Points

• Sex Ratio:

• In the Population Census of 2011, it was revealed that the population ratio in India in 2011 is 943 females per 1000 males.

• The sex ratio is used to describe the number of females per 1000 males.

• Sex ratio is a valuable source for finding the population of women in India and what is the ratio of women to that of men in India.

• The Sex Ratio 2011 shows an upward trend from the census 2001 data.

• Census 2001 revealed that there were 933 females to that of 1000 males.

• For decades India has seen a decrease in the sex ratio, but since the last two decades, there has been a slight increase in the sex ratio.

• Over the last five decades, the sex ratio has been moving from around 930 females to that of 1000 males.

Additional Information

• Sex Ratio of Different Indian States:

• Kerala - 1084

• Puducherry - 1037

• Tamil Nadu - 996

• Andhra Pradesh - 993

• Chhattisgarh - 991

• Andaman and Nicobar Island - 876

• Delhi - 868

• Chandigarh - 818

• Dadra and Nagar Haveli - 774

• Daman and Diu - 618

Q27. Answer: (b) Loo

The correct answer is Loo.

Key Points

• Permanent winds are those that persist throughout the year and are associated with the Earth's atmospheric circulation system.

• They help to distribute heat, moisture, and air masses across the planet, playing a crucial role in shaping global climate patterns.

Loo

• Loo is not type of permanent wind.

• It is a strong, dry and hot afternoon wind from the west in the summer, blowing over the western Indo-Gangetic Plain region of North India and Pakistan.

• It is particularly strong in the months of May and June.

• Exposure to it also leads to lethal heat strokes because of its extremely high temperatures (45 °C–50 °C or 115 °F-120 °F).

• The technical words that signify the direction in which the wind is blowing are 'Windward' and 'leeward.'

• The direction upwind from the point of reference is windward.

• Loo has extended its reach and has now gripped more parts of Rajasthan, Gujarat, Maharashtra and even West Madhya Pradesh. Moreover, some parts of this region are also reeling under heat wave conditions.

Additional Information The example of permanent wind are Trade winds, Westerlies and Easterlies.

• Trade winds: These are consistent, prevailing winds that blow from the northeast in the Northern Hemisphere and the southeast in the Southern Hemisphere, found between approximately 30° latitude and the equator in both hemispheres.

• Westerlies: These winds blow from the southwest in the Northern Hemisphere and the northwest in the Southern Hemisphere, generally found between latitudes 30° and 60° in both hemispheres.

• Easterlies: Also known as polar easterlies, these winds blow from the east near the Earth's poles and are formed as cold air masses move away from the poles towards the lower latitudes..

Q28. Answer: (a) Fourth Generation

The correct answer is Fourth Generation.

Key Points

• The GUI was first developed at Xerox PARC by Alan Kay, Douglas Engelbart, and a group of other researchers in 1981. Later, Apple introduced the Lisa computer with a GUI on January 19, 1983.

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• Graphical User Interface (GUI) was developed during the Fourth Generation of computers.

• These graphical elements are sometimes enhanced with sounds or visual effects like transparency and drop shadows. Using these objects, a user can use the computer without having to know commands.

Additional Information

• A GUI (graphical user interface) is a system of interactive visual components for computer software.

• A GUI displays objects that convey information, and represent actions that can be taken by the user.

• A GUI includes GUI objects like icons, cursors, and buttons.

• The Icons are used to represent a specific operation. A settings bottom is represented by a gear icon.

• Menus contain the set of operations that can be performed on the following window. Menus mainly use drop-down drawers which contain multiple buttons.

• The graphs are also used to represent the data related to the system. Like the temperature of the motherboard is represented by the graphs.

• The command lines are not part of the graphical interface, but they work in the background.

Q29. Answer: (c) SEBI

The correct answer is SEBI.

Key Points

• On 25th July 2022, the Securities and Exchange Board of India (SEBI) incorporated new chapters relating to the Social Stock Exchange (SSE) by amending the SEBI (Issue of Capital and Disclosure Requirements) Regulations1. The Social Stock Exchange is a novel concept in India, intended to serve the private and non-profit sectors by channelling greater capital to them. The amendment provides a framework for the Social Stock Exchange, which mainly covers:

• Eligibility of organizations to raise funds through the SSE: Organizations eligible to raise funds through the Social Stock Exchange include Not for Profit Organizations seeking to get registered and/or raise funds through a Social Stock Exchange.

• A 'Not for Profit Organization' is defined as a social enterprise which can be a charitable trust registered under the Indian Trusts Act, 1882, a charitable trust registered under the public trust statute of the relevant state, a charitable society registered under the Societies Registration Act, 1860, a company incorporated under section 8 of the Companies Act, 2013, or any other entity as may be specified by the Board2. A 'For Profit Social Enterprise' is an entity involved in at least one of several specified activities aimed at social upliftment, such as eradicating hunger, promoting healthcare, promoting education, ensuring environmental sustainability, and others.

• Targeting underserved or less privileged populations: The Social Enterprise should target underserved or less privileged population segments or regions recording lower performance in the development priorities of central or state governments.

• Provision of eligible activities to the target population: The Social Enterprise should have at least 67% of its activities, qualifying as eligible activities to the target population. This can be established through one or more of the following: at least 67% of the immediately preceding 3-year average of revenues comes from providing eligible activities to members of the target population, at least 67% of the immediately preceding 3-year average of expenditure has been incurred for providing eligible activities to members of the target population, members of the target population to whom the eligible activities have been provided constitute at least 67% of the immediately preceding 3-year average of the total customer base and/or total number of beneficiaries.

• Means through which Social enterprises can raise funds: A Social Enterprise can raise funds through a Not for Profit Organization

Additional Information

Organization	Foundation Year	Brief Information
NITI Aayog	2015	NITI Aayog, short for National Institution for Transforming India, is a policy think tank of the Government of India. It serves as a platform for the central and state governments to collaborate on key policy matters and promote cooperative federalism. NITI Aayog's primary focus is on fostering sustainable development, economic growth, and social progress in India.

RBI	1935	RBI, or Reserve Bank of India, is India's central banking institution. It was established to regulate the country's monetary and financial systems. The RBI is responsible for issuing and managing the Indian rupee, formulating monetary policies, maintaining price stability, and ensuring the stability of the banking system. It also acts as a banker to the government and plays a vital role in controlling inflation and fostering economic growth.
SEBI	1988	SEBI, or Securities and Exchange Board of India, is the regulatory body for the securities market in India. It was established to protect the interests of investors and promote the development and regulation of the securities market. SEBI regulates various market participants, such as stock exchanges, brokers, and listed companies, and ensures transparency and fairness in securities transactions. Its main objectives include investor protection, promoting healthy market practices, and facilitating the growth of the Indian securities market.

Q30. Answer: (a) Saint Ramanujacharya

The correct answer is Saint Ramanujacharya.

Key Points

Statue of Equality

• The world’s second tallest statue in a sitting position is made up of ‘panchaloha’, meaning a combination of five metals i.e. gold, copper, silver, brass and zinc.

• The inner sanctorum deity of Sri Ramanujacharya is built of 120 kilos of gold.

• It is located in Hyderabad, Telangana.

• This commemorates the 120 years the saint spent on earth.

• The project, worth Rs. 1,000 crores is funded by donations from global devotees and its foundation stone was laid in 2014.

Additional Information

About the Sri Ramanuja Acharya

• He was born in 1017 CE at Shriperumbudur village in Tamil Nadu. He was a great theologian philosopher and thinker of devotional Hinduism.

• He is the most respected Acharya in the philosophy of Sri Vaishnavism. Ramanuja is also known as Ramanujacharya.

• He is said to have liberated millions from social, cultural, gender, educational and economic discrimination with the foundational conviction that every human is equal regardless of nationality, gender, race, caste, or creed.

Q31. Answer: (a) Lothal

The correct answer is Lothal.

Key Points

• In Lothal Dockyard was found.

• List of Important sites with their features:

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| Harappa (Pakistan) Located on the bank of the Ravi river. Discovered by Daya Ram Sahini in 1921. | - Ist discovered site - 2 rows of 6 granaries - Sandstone statues of Human anatomy - Bull ock carts - Coffin burials | | --- | --- | | Mohenjodaro (Pakistan) Located on the bank of the Indus river. Discovered in Larkana District Of Sindby R. D Banerje in 1922.	Harappa (Pakistan) Located on the bank of the Ravi river. Discovered by Daya Ram Sahini in 1921.	• Ist discovered site - 2 rows of 6 granaries - Sandstone statues of Human anatomy - Bull ock carts - Coffin burials	Mohenjodaro (Pakistan) Located on the bank of the Indus river. Discovered in Larkana District Of Sindby R. D Banerje in 1922. Mohenjodaro means "Mount of the dead". Also called an oasis of Sindh.	• Great Bath (Largest Brick Work) - Great Granary (Largest Building) - Impressive drainage system - The bronze image of a dancing girl - Image of steatite bearded man - Piece of woven cotton - Seal of Pashupati - Skeletons on stairs of well	Chanhudaro (Pakistan) Located on the bank of the Indus river. Discovered by NG Majumdar.	• Lancashire of India - The only city without a citadel - Bangles Factory - Beads Factory	Dholavira (Gujarat) Located on the bank of Luni river. In Rann of Kutch. Discovered by JP Joshi.	• Exclusive water management.	Banawali (Hissar) Located on the bank of the Ghaggar river Discovered by RS Bisht.	• Beads - Barley	Rakhigarhi (Hissar) Located on the bank of the Ghaggar river. Discovered By Amrendra Nath.	• Biggest site of Indus valley civilization	Sutkagendor (Pakistan) Baluchistan on Dast river.	• Between Harappa and Babylon	Lothal (Gujarat) Located on the bank of the Bhogwa river.	• It has an artificial Brick dock yard. - It has evidence of the earliest cultivation of Rice. - It served as a seaport for Indus Valley People.

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Lothal (Gujarat) Located on the bank of the Bhogwa river.	• It has an artificial Brick docky ard. - It has evidence of the earliest cultivation of Rice. - It served as a seaport for Indus Valley People.														

Additional Information

• The Indus Valley Civilization was spread from present-day North-East Afghanistan to Pakistan and North-West India.

• The civilization flourished in the river basins of the Ghaggar-Hakra river and the Indus.

• Indus valley civilization is one of the four oldest civilizations in the world.

• It is also known as Harappan Civilization and is well-known for its organized planning based on the grid system.

Important facts to be remembered.

• Social features:-

• Indus valley civilization is the first urbanization in India.

• It has a well-planned drainage system, grid pattern, and town planning.

• They have possessed equality in society.

• Religious Facts:-

• Matridevi or Shakti is the Mother goddess.

• Yoni worship and Nature worship existed.

• They worshipped trees like Peepal.

• They also worshipped Fire worship called Havan Kund.

• Pashupati Mahadeva is known as the lord of Animals.

• The people of Indus Valley Civilization worshipped Animal worship like Unicorn and ox.

• Economic facts:-

• Indus valley civilization is based on agriculture.

• Trade and commerce flourished in this period.

• A dockyard has been found at Lothal.

• There were export and import.

• Production of cotton was there.

• At Lothal, weights and measures of truth existed in Harappan culture was seen.

• The weights and were usually cubical in shape. and were made of limestone, steatite, etc

Q32. Answer: (b) Capitalism

The correct answer is Capitalism.

Key Points

• Capitalism is an economic system in which private individuals or businesses own capital goods.

• Capitalism is an economic system that focuses on a free market to determine the most efficient allocation of resources and sets prices based on supply and demand.

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• Socialism is often presented as the opposite of capitalism whereby there is no free market and the allocation of resources is determined by a central body.

• The essential feature of capitalism is the motive to make a profit.

Additional Information

• In a capitalist economy, capital assets—such as factories, mines, and railroads—can be privately owned and controlled, labor is purchased for money wages, capital gains accrue to private owners, and prices allocate capital and labor between competing uses.

• Socialist economy:

• This economic system acknowledges the three inquiries in a different way. In a socialist society, the government determines what products are to be manufactured in accordance with the requirements of the society.

• It is believed that the government understands what is appropriate for the citizens of the country.

• Therefore, the passions of individual buyers are not given much attention.

• Mixed economy:

• Mixed systems have characteristics of both the command and the market economic system.

• For this purpose, mixed economic systems are also known as dual economic systems.

• However, there is no sincere method to determine a mixed system.

• Sometimes, the word represents a market system beneath the strict administrative control in certain sections of the economy.

Q33. Answer: (c) 18

The correct answer is 18.

Key Points

• The maximum number of electrons that can be accommodated in the M shell of an atom is 18.

• The shell corresponds to the principal quantum numbers.

• For the M shell principle, the quantum number is 3.

• So, the maximum number of electrons present in the M shell is 18.

• The shell number is expressed by the formula 2n2, where n is the number of shells.

• The shells, values of n, and the total number of electrons can be accommodated.

Additional Information

• Each subshell is constrained to hold $4\ell + 2$ electrons at most, namely:

• Each s subshell holds at most 2 electrons

• Each p subshell holds at most 6 electrons

• Each d subshell holds at most 10 electrons

• Each f subshell holds at most 14 electrons

• Each g subshell holds at most 18 electrons

Q34. Answer: (a) Indo-Islamic

The correct answer is Indo-Islamic.

Key Points

• Qutub Minar (or Qutab Minar) is a minaret and "victory tower" that forms part of the Qutb complex.

• It is an example of Indo-Islamic architecture.

• It is a UNESCO World Heritage Site in the Mehrauli area of New Delhi, India.

• The height of Qutb Minar is 72.5 meters, making it the tallest minaret in the world built of bricks.

• The tower tapers, and has a 14.3 meters (47 feet) base diameter, reducing to 2.7 meters (9 feet) at the top of the peak.

• Between 1199 and 1503, Qutub-ud-Din Aibak and Shamsu'd-Din Iltutmish built a minar (minaret) near the southeast corner of the Quwwatu'l-Islam, drawing inspiration from their Ghurid homeland.

Additional Information

• The Nagara or North Indian temple style

• Became popular in northern India.

• The entire temple is generally built on a stone platform with steps leading to it.

• No grand boundary walls or gateways (unlike the Dravida style).

• Earlier temples had one shikhara whereas later temples had many.

• The garbhagriha is located directly beneath the tallest shikhara.

• Dravidian Style of Architecture – South Indian Style

• The temple is enclosed within a compound wall.

• Gopuram: The entrance gateway in the centre of the front wall.

• Vimana: The shape of the main temple tower. It is a stepped pyramid that rises up geometrically (unlike the Nagara style Shikhara that is curving).

• In the Dravida style, shikhara is the word used for the crowning element at the top of the temple (which is shaped like a stupika or octagonal cupola).

• At the entrance to the garbhagriha, there would be sculptures of fierce dvarapalas guarding the temple.

• Generally, there is a temple tank within the compound.

• Subsidiary shrines could be found wither within the main tower or beside the main tower.

• Example in the Sriranganathar Temple at Srirangam, Tiruchirappalli, there are 7 concentric rectangular enclosure walls each having gopurams. The tower in the centre has the garbhagriha.

• Famous temple towns of Tamil Nadu: Kanchipuram, Thanjavur (Tanjore), Madurai and Kumbakonam.

• In the 8th to 12th centuries – temples were not confined to being religious centres but became administrative centres as well with large swathes of land.

• The Vesara Style is a hybrid temple architecture. It has features of both the Nagara and Dravidian style of temple architecture.

• In particular, the shape of the superstructure over the sanctum is usually pyramidal in profile, and shorter than the northern shikhara tower.

• In plan, the walls and superstructure are broadly circular, or a straight-sided cone, though its geometry is based on rotating a square imposed on a circle.

Q35. Answer: (b) July 4

The correct answer is July 4.

Key Points

• Swami Vivekananda

• He was born on 12th January 1863.

• He attended the parliament of religions held in Chicago on 11th September 1893.

• Swami Vivekananda is best known in the United States for his historic speech in the World’s Parliament of Religions held in 1893.

• A section of Michigan Avenue, that passes in front of the Art Institute was formally renamed "Swami Vivekananda Way" On 11 November 1995.

• Michigan Avenue is one of the most prominent streets in Chicago

• On 11 September 1995, Art Institute put up a bronze plaque to commemorate Swami Vivekananda's historic speech in 1893.

• The Art Institute of Chicago and the Republic of India reinstalled the plaque commemorating Vivekananda’s landmark speech in 2012.

• His birthday is celebrated as national youth day in India.

• The Ramakrishna Mission was founded by Swami Vivekananda.

• Narendranath Datta is the original name of Swami Vivekananda.

• He is considered the patriotic saint of India.

• "Go back to Gita" is a famous slogan raised by Swami Vivekananda.

• Every year, July 4 is observed as the death anniversary of Swami Vivekananda.

Additional Information

Freedom Fighter	Birth Anniversary
Mahatma Gandhi	2 October
Jawaharlal Nehru	14 November
Netaji Subhas Chandra Bose	23 January
Bhagat Singh	28 September
Sardar Vallabhbhai Patel	31 October
Rani Lakshmibai	19 November
Maulana Abul Kalam Azad	11 November
Sarojini Naidu	13 February

Q36. Answer: (c) Forebrain

The correct answer is Forebrain.

• The front brain is associated with the feeling of the satisfaction of hunger.

Key Points

• The brain is the central information processing organ of our body, and acts as the 'command and control system'.

• It controls the voluntary movements, the balance of the body, functional of vital involuntary organs (e.g., lungs, heart, kidneys, etc.), thermoregulation, hunger and thirst, circadian (24-hour) rhythms of our body, activities of several endocrine glands, and human behaviour.

• There are four lobes in the human brain-

• Frontal lobe.

• Parietal lobe.

• Occipital lobe.

• Temporal lobe.

• Frontal lobe

• It is located at the front of each hemisphere (brain's cerebral cortex) and largest lobe.

• The central sulcus frontal lobe is separated from the parietal lobe.

• The vital role of the frontal lobe is decision making including self-management, Speech, and language, Comparing objects, memories, understanding, and reacting to feelings, behaviour, attention, etc.

• The temporal lobe is located in the bottom section of the brain and sits close to the ear level within the skull.

• The vital functions are hearing, language recognization, speaking and understanding writing, memory acquisition, visual perception, etc.

• Therefore hearing is controlled by the temporal lobe.

Additional Information

• Parietal lobe

• Located behind the frontal lobe.

• Receive and transmit sensory information from the body and it is also connected to other parts of the brain.

• Deals with many sensations including touch, pressure, pain, heat, cold, etc

• Occipital lobe

• It is the smallest of the lobes, located at the back portion of the brain and below the occipital bone.

• The primary visual cortex, which is located in the occipital lobe, receives and interprets information from the retinas of the eyes.

• The occipital lobe deals with aspects of vision, including face recognition, movement, object recognition, colour determination, distance, depth perception.

Q37. Answer: (d) Only I

The correct answer is Only I.

Key Points

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

• 22 gold,

• 16 silver, and

• 23 bronze

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

• This time shooting was not included.

• India finished fourth in the medal tally.

• Australia took first place.

• England finished second and Canada third.

• New Zealand finished fifth.

• Ravi Kumar Dahiya won Gold for the country in Men's Freestyle 57kg Wrestling in Commonwealth Games 2022. Therefore 2nd statement is incorrect.

• Avinash Sable win a silver medal in the 3000m steeplechase at the 2022 Commonwealth Games in Birmingham, clocking a time of 8:11.20. 1st statement is correct.

Additional Information

• India took the total number of gold medals in the history of the Commonwealth Games (CWG 2022) to 203.

• Australia (1003 gold medals) is at the top in terms of the total number of gold medals in the Commonwealth Games, while

England (773) is second and Canada (510) is in third place.

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

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

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

Q38. Answer: (d) Amit Dave

The correct answer is Amit Dave.

Key Points

• Amit Dave is among four Indians honored with the prestigious Pulitzer Prize 2022 in the feature photography category.

• Siddiqui and his colleagues Adnan Abidi, Sanna Irshad Mattoo, and Amit Dave from the Reuters news agency have won the award.

Additional Information

• First awarded in 1917, the Pulitzer Prize recognizes excellence in journalism, literature, and musical composition.

• The categories include Public Service, Breaking News Reporting, Feature Writing, etc.

• Columbia University administers the award.

• These awards are being given annually in 21 categories.

• In 20 categories, each winner receives USD 15,000 and a certificate.

• A gold medal is awarded to the winner in the Public Service category of the award.

Q39. Answer: (d) Both I and II

The correct answer is Both I and II.

Key PointsNational Income Calculation

• Intermediate goods are not included in the calculation of national income.

• Intermediate goods are products used in the production of final goods and services. Including them would result in double counting, as their value is already embedded in the value of final goods.

Hence, statement I is correct.

• Final goods are included in the calculation of national income.

• Final goods are products that have completed the production process and are available for consumption or investment. These goods are counted in national income because they reflect the actual value of production in the economy.

Hence, statement II is correct.

Additional Information

• National Income Overview

• National income is a measure of the total value of goods and services produced by a country within a specific period, typically one year.

• It is calculated using various methods, including the income method, production method, and expenditure method.

• Exclusion of Intermediate Goods

• Excluding intermediate goods prevents double counting and ensures that only the value of final products is considered, providing a more accurate measure of economic output.

• Inclusion of Final Goods

• Final goods are included in national income calculations because they represent the end product of economic activity, reflecting the actual value created in the economy.

Key facts about National income in India-

• The first attempt to calculate the national income of India was made by Dadabhai Naoroji.

• The first scientific method for calculating national income was made by Prof. V.K.R.V. Rao in 1931 but was not satisfactory.

• The first official attempt was made by National Income Committee headed by Prof. P.C. Mahalanobis in 1949.

• Central Statistical Organization (CSO) is responsible for calculating National income in India.

Q40. Answer: (a) The size of the nucleus is very large as compared to the size of the atom.

The correct answer is The size of the nucleus is very large as compared to the size of the atom.

Key Points

RUTHERFORD'S MODEL OF AN ATOM

• Ernest Rutherford was interested in knowing how the electrons are arranged within an atom.

• Rutherford designed an experiment for this. In this experiment, fast-moving alpha (α)-particles were made to fall on a thin gold foil.

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• He selected a gold foil because he wanted as thin a layer as possible. This gold foil was about 1000 atoms thick.

• α-particles are doubly-charged helium ions. Since they have a mass of 4 u, the fast-moving α-particles have a considerable amount of energy.

• It was expected that α-particles would be deflected by the sub-atomic particles in the gold atoms. Since the α-particles were much heavier than the protons, he did not expect to see large deflections.

• But, the α-particle scattering experiment gave totally unexpected results.

• Observations

• Most of the fast-moving α-particles passed straight through the gold foil.

• Some of the α-particles were deflected by the foil by small angles.

• Surprisingly one out of every 12000 particles appeared to rebound.

• Rutherford concluded from the α-particle scattering experiment that–

• Most of the space inside the atom is empty because most of the α-particles passed through the gold foil without getting deflected.

• Very few particles were deflected from their path, indicating that the positive charge of the atom occupies very little space.

• A very small fraction of α-particles were deflected by 180 Degrees, indicating that all the positive charge and mass of the gold atom were concentrated in a very small volume within the atom.

• From the data, he also calculated that the radius of the nucleus is about 105 times less than the radius of the atom.

• On the basis of his experiment, Rutherford put forward the nuclear model of an atom, which had the following features:

• There is a positively charged center in an atom called the nucleus. Nearly all the mass of an atom resides in the nucleus.

• The electrons revolve around the nucleus in circular paths.

• The size of the nucleus is very small as compared to the size of the atom.Therefore 1st option is not correct regarding Rutherford's nuclear model of an atom.

• Drawbacks

• The revolution of the electron in a circular orbit is not expected to be stable. Any particle in a circular orbit would undergo acceleration. During acceleration, charged particles would radiate energy.

• Thus, the revolving electron would lose energy and finally fall into the nucleus. If this were so, the atom should be highly unstable, and hence matter would not exist in the stable form.

Q41. Answer: (d) Asiatic elephant

The answer is Asiatic elephant

Key Points:Vulnerable Species:

• Species whose population has declined to levels from where it is likely to move into the endangered category in the near future if the negative factors continue to operate.

• Examples:

• Blue sheep, Asiatic elephant, Gangetic dolphin

Endemic Species:

• Species that are only found in some particular areas usually isolated by natural or geographical barriers.

• Examples:

• Andaman teal, Nicobar pigeon, Andaman wild pig, Mithun in Arunachal Pradesh

Additional Information:

• Based on the International Union for Conservation of Nature and Natural Resources (IUCN), we can classify the plant and animal species as:

Normal Species:

• Species whose population levels are considered to be normal for their survival, such as cattle, sal, pine, rodents, etc.

Endangered Species:

• Species that are in danger of extinction.

• The survival of such species is difficult if the negative factors that have led to a decline in their population continue to operate.

• Examples:

• Blackbuck, Crocodile, Indian wild ass, Indian rhino, Lion-tailed macaque, Sangai (brow-antlered deer in Manipur)

Rare Species:

• Species with a small population may move into the endangered or vulnerable category if the negative factors affecting them continue to operate.

• Examples:

• Himalayan brown bear, Wild Asiatic buffalo, Desert fox and Hornbill

Extinct Species:

• Species that are not found after searches of known or likely areas where they may occur.

• A species may be extinct from a local area, region, country, continent or the entire earth.

• Examples:

• Asiatic cheetah, Pink head duck

Q42. Answer: (c) Sunda

The correct answer is Sunda

Key Points:

Name	Location	Connecting water bodies
Strait of Malacca	Indonesia-Malaysia	The Andaman Sea and South China sea
Sunda Strait	Sumatra-Indonesia	Java sea the Indian Ocean
Strait of Hormuz	Oman-Iran	The Gulf of Persia and the Gulf of Oman
Nemuro Strait	Japan	Okhotsk Sea and the Pacific Ocean

Q43. Answer: (b) South Africa

The correct answer is South Africa.

In News:

• In Women's Cricket, Australia lifted the ICC T20 World Cup Trophy for the sixth time.

• It was held in South Africa between 10 February and 26 February 2023.

Key Points:

• In the final match on 26 Feb 2023, they defeated South Africa by 19 runs at Newlands, Cricket Ground in Cape Town.

• Earlier, winning the toss and deciding to bat first, Australia posted 156 for 6 in their allotted 20 overs.

• Beth Mooneyc top-scored with unbeaten 74 runs for Australia.

Additional Information:Australia:

• Capital - Canberra

• Currency - Australian dollar

• Prime minister - Anthony Albanese.

• National Sport - Australian Rules football.

Other Sports News:

• England Test captain Ben Stokes became the player to hit the most number of sixes in the history of Test cricket in the match against New Zealand on 18 February 2023.

• Jean-Eric Vergne of team DS Penske won the first-ever Formula E race held in Hyderabad on 11 February 2023.

• With his 36th point against the Oklahoma City Thunder on February 7, 2023, LeBron James became the National Basketball Association's all-time leading scorer.

• Aditi Ashok clinched the Ladies European Tour Title with a nine-shot win, despite 1-over on final day, at the Magical Kenya Ladies Open on 5 February 2023.

• Prajnesh Gunneswaran won the final of the $25,000 ITF men’s tennis tournament in Al Zahra, Kuwait, on 29 January 2023.

• England captain Ben Stokes has been named the International Cricket Council Test Player of the Year for 2022.

Q44. Answer: (b) Precise

The correct answer is Precise

Key Points:The formatting options available in the 'Paragraph' setting window in MS Word 2016 are:

• Spacing.

• Indentation.

• Pagination under the option Line and Page breaks.

• Alignment.

Paragraph formatting options are described as:

• Alignment

• Alignment or justification refers to the way in which the lines of a paragraph are aligned.

• There are four types of alignment, namely, left, center, right, and justified.

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• Indentation

• The value in the Before text box specifies the width of the additional empty space that is inserted between the margin and the text on the left-hand side of a paragraph of left-to-right text.

• The value in the After text box specifies the width of the additional empty space that is inserted between the text and the margin on the right-hand side of a paragraph of left-to-right text.

• A negative value specifies the distance by which the text extends beyond the respective margin.

• Spacing

• The spacing between two paragraphs is determined by the spacing before one paragraph and the spacing after the preceding paragraph, which are displayed and can be modified in the Before and After boxes.

• Line spacing refers to the vertical distance between the lines within a paragraph.

• It determines the location of each line relative to the line above it.

• Line and Page Breaks tab (Pagination)

• The paragraph formatting options on the Line and Page Breaks tab under pagination of the Paragraph dialog box can help you control where automatic page breaks occur in your document.

Q45. Answer: (c) Kathak

Correct Answer Kathak

Key Points:

• Aditi Mangaldas is a leading dancer and choreographer in Kathak, a classical Indian dance form.

• She has received extensive training from renowned gurus Shrimati Kumudini Lakhia and Pandit Birju Maharaj.

• Aditi is recognized for her exceptional artistry, technique, and eloquence in every performance.

• Her characteristic energy sets her apart and adds a unique touch to her dance.

• Aditi Mangaldas is highly acclaimed and respected in the field of Kathak.

Additional InformationClassical dance

• Classical dances are performed by professional or highly trained dancers who have studied their form for many years.

• There are eight classical Dances in India.

• Classical dance expresses a story or theme and this form of art lies in the religious Hindu music theatre styles. It represents the culture.

• They are

• Kathak from North India,

• Sattriya of Assam,

• Bharatnatyam of Tamil Nadu,

• Kuchipudi of Andhra Pradesh,

• Kathakali and Mohiniaattam of Kerala,

• Manipuri of Northeast India, and

• Odissi of Odisha.

• It is the right way to connect with your feelings, coordinate and move the movement skills and build strength and stability in your body.

Q46. Answer: (c) Calcutta

The correct answer is Calcutta

Key Points:

• The Calcutta High Court is the oldest High Court in India.

• It is located in B.B.D. Bagh, Kolkata, West Bengal.

• It has jurisdiction over the state of West Bengal and the Union Territory of the Andaman and Nicobar Islands. The High Court building's design is based on the Cloth Hall, Ypres, in Belgium.

• The high court was established on 1 July 1862.

• The current chief justice is T. S. Sivagnanam

Additional Information:

• The High Court of Karnataka is the High Court of the Indian state of Karnataka and thus its highest judicial authority. The court's principal bench is located in Bengaluru, the capital city of Karnataka, with additional benches in Hubballi-Dharwad and Kalaburagi. It was previously called the High Court of Mysore.

• Allahabad High Court, also known as the High Court of Judicature at Allahabad is the high court based in Prayagraj that has jurisdiction over the Indian state of Uttar Pradesh. It was established on 17 March 1866, making it one of the oldest high courts to

be established in India

• The High Court of Delhi was established on 31 October 1966. The High Court of Delhi was established with four judges, including Chief Justice K. S. Hegde, Justice I. D. Dua, Justice H. R. Khanna, and Justice S. K. Kapur.

Q47. Answer: (d) Attorney General of India

Correct Answer Attorney General of India

India's Attorney General (AG) is a member of the Union Executive.

Key Points:

• The Attorney General is the country's highest law enforcement official.

• Under Article 76 of the Constitution, the post of Attorney General of India is established.

• Attorney General appointed by the President of India after the advice of the Government of India.

• Constitution of India laid down eligibility conditions, he must be a citizen of India and must have served as a judge of a high court for five years or as an attorney of a high court for ten years, or as a prominent jurist.

• Attorney General can participate in the proceedings of both Houses of Parliament or their joint sitting and Parliamentary committee of which he may be named a member but cannot vote.

• The Constitution does not specify the length of the office's term.

• He serves at the pleasure of the President of India.

Therefore, Article 76 of the Indian Constitution deals with the Attorney General of India.

Additional InformationResponsibilities of The Attorney General mentioned under the Indian Constitution are following:

• To provide legal advice to the Government of India on subjects assigned to him by the President

• To represent the Government of India in all Supreme Court and High Court cases involving the Government of India.

• Under Article 143, To represent the Government of India in any Supreme Court referral made by the President.

• To carry out the duties entrusted to him by the Constitution or any other law.

• To carry out any additional legal responsibilities entrusted to him.

Q48. Answer: (d) 23

Correct Answer 23

Key Points:

• India won 23 Bronze medals in Commonwealth Games 2022.

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

• 22 gold,

• 16 silver, and

• 23 bronze

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

• This time shooting was not included.

• India finished fourth in the medal tally.

• Australia took first place.

• England finished second and Canada third.

• New Zealand finished fifth.

Additional Information

• India took the total number of gold medals in the history of Commonwealth Games (CWG 2022) to 203.

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

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

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

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

Q49. Answer: (a) Rohit Sharma

The correct answer is Rohit Sharma

Key Points:Rohit Sharma:

• Rohit Sharma was the captain of India in the ICC T20 World Cup 2022.

• Batsman Rohit Sharma completed 3000 T20 International runs and became the third cricketer in the world to achieve this feat.

• Rohit reached the 3000 run mark in a match against Namibia in the ICC men's T20 World Cup at Dubai International Cricket Stadium.

• Rohit Sharma is the only batsman to score five centuries in a single edition of the ICC World Cup.

• He achieved this milestone in the 2019 world cup.

• He scored centuries against South Africa, Pakistan, England Bangladesh and Sri Lanka.

• He is the only batsman in cricket history who has scored 3 double centuries in one-day international matches.

ICC T20 World Cup 2022:

• India squad for ICC T20 World Cup: Rohit Sharma (Captain), KL Rahul (vice-captain), Virat Kohli, Suryakumar Yadav, Deepak Hooda, Rishabh Pant (wicket-keeper), Dinesh Karthik (wicket-keeper), Hardik Pandya, R. Ashwin, Yuzvendra Chahal, Axar Patel, Jasprit Bumrah, Bhuvneshwar Kumar, Harshal Patel, Arshdeep Singh.

• The Eighth ICC Men's T20 World Cup tournament was held in 2022 at Australia.

• It was played from 16 October to 13 November 2022. In the final, England beat Pakistan by five wickets to win their second ICC Men's T20 World Cup title.

• Sam Curran was named the Player of the Match and also the Player of the tournament.

Additional Information:

• The England and Wales Cricket Board is the national governing body of cricket in England and Wales.

• It was formed on 1 January 1997 as a single governing body to combine the roles formerly fulfilled by the Test and County Cricket Board, the National Cricket Association, and the Cricket Council.

• President: Giles Clarke

• Headquarters: London, United Kingdom

• Founded: 1 January 1997

• Chairman: Richard Thompson

Q50. Answer: (c) 1784

The correct answer is 1784

Key Points:

• Pitt's India act of 1784 was passed to separate the commercial and political functions of the Company.

• Pitt’s India act of 1784 created a new body named the Board of control which manages the political affairs.

• Commercial affairs were managed by the Court of Directors.

• By this act, the British government was given supreme control over the company's affairs and its administration in India.

• The governor general council's strength was reduced to 3 members. One of the 3 would be Commander in chief of the British Crown's army in India.

• The Governor-General was given the right of veto.

• The Presidencies of Madras and Bombay became subordinate to the Bengal presidency

• Calcutta became the capital of British India till 1911.

Q51. Answer: (c) 40.5 cm

Given:

PO = 27 cm

Concept Used:

The centroid of a triangle divides the medians into segments in the ratio of 2:1, where the centroid is closer to the midpoint of the side (where the median intersects the side).

Calculation:

The centroid of a triangle divides the medians into segments in the ratio of 2:1, where the centroid is closer to the midpoint of the side (where the median intersects the side).

Given that PO = 27 cm, if we let PM = x,

2/3 × x = 27

x = 27 × 3/2

x = 40.5 cm

So, the length of PM is 40.5 cm.

Q52. Answer: (c) 24300

Given:

We need to find the sum of all three-digit numbers that are divisible by 20.

Formula Used:

Sum = (n/2)(first term + last term)

Calculation:

The first term (a) is 100, the last term (l) is 980, and the common difference (d) is 20.

The number of terms (n) can be calculated using the formula:

n = (l - a)/d + 1

n = (980 - 100)/20 + 1

n = 45

Now, we can calculate the sum of the arithmetic series:

Sum = (n/2)(a + l)

Sum = (45/2)(100 + 980)

Sum = 22.5 × 1080

Sum = 24300

Therefore, the sum of all three-digit numbers divisible by 20 is 24,300.

Q53. Answer: (c) 62 kg

Shortcut Trick

New Average = 42 kg, Old Average = 40 kg.

Increase in Average = 42 − 40 = 2 kg.

Total increase in weight for all 11 persons = 11 × 2 = 22 kg.

Weight of the new person = Old Average + Total Increase.

=> Weight = 40 + 22 = 62 kg.

Therefore The correct answer is 62 kg.

Alternate Method

Given:

Average weight of 10 persons = 40 kg

Average weight of 11 persons (after new person joins) = 42 kg

Formula Used:

Sum of observations = Average × Number of observations

Initial Total Weight (10 persons)

400 kg

New Total Weight (11 persons)

400 kg

• 62 kg

Total: 462 kg

Calculations:

=> Total weight of initial 10 persons = 10 × 40 = 400 kg

=> Total weight of 11 persons = 11 × 42 = 462 kg

=> Weight of the new person = Total weight of 11 persons − Total weight of 10 persons

=> Weight of the new person = 462 − 400 = 62 kg

Therefore The correct answer is 62 kg.

Additional Information

When a Person Leaves the Group

Value of the person leaving = Old Average + (Net Decrease in Average × Remaining Persons) OR Old Average − (Net Increase in Average × Remaining Persons).

Replacement in Average

When a new person replaces an existing one: Weight of new person = Weight of replaced person + (Net Change in Average × Total Number of Persons).

Combined Average

If two groups of sizes n1 and n2 have averages A1 and A2 respectively, then their Combined Average = (n1A1 + n2A2) ÷ (n1 + n2).

Q54. Answer: (b) 1

Calculation:

cosec A (1 - cos A) (cosec A + cot A)

=> (cosec A - cosec A. cos A) (cosec A + cot A)

=> (cosec A - cot A) (cosec A + cot A)

=> (cosec² A - cot² A) = 1 [Trigonometry identity, 1 + cot² θ = cosec² θ]

Therefore Option 2 is the correct answer.

Q55. Answer: (b) 7.5 years

Given:

Principal (P) = Rs. 12500

Final Amount (A) = Rs. 20000

Rate of interest (r) = 8% per annum

Concept:

Simple Interest = (Principal × Rate × Time)/100. We rearrange this formula to solve for Time.

Calculation:

Simple Interest = Final Amount - Principal

=> Rs. 20000 - Rs. 12500 = Rs. 7500

Time = (Simple Interest × 100) / (Principal × Rate)

=> (7500 × 100) / (12500 × 8) = 7.5 years

Hence, it will take 7.5 years for the sum to amount to Rs. 20000.

Q56. Answer: (d) 3 : 2

Given:

Total students = 414

Ratio of boys to girls = 5:4

Number of boys admitted = 46

Concept Used:

The new ratio is determined by the increased number of boys and the unchanged number of girls.

Calculation:

Total parts = 5 + 4 = 9

Boys initially = 5/9 × 414 = 230

Girls = 414 - 230 = 184

New total boys = 230 + 46 = 276

New ratio of boys to girls = 276:184 = 92 × 3 : 92 × 2 = 3:2

Hence, the new ratio of boys to girls is 3:2.

Q57. Answer: (b) 528 cm²

Given:

Radius (r) = 7 cm

Height (h) = 5 cm

Concept:

Total Surface Area of a cylinder = 2πr(h + r)

Calculation:

Total Surface Area = 2π × 7 × (5 + 7) = 2π × 7 × 12 = 528 cm²

Hence, the total surface area of the cylinder is 528 cm².

Q58. Answer: (b) 1150/171

Given:

(3/4 ÷ 9/64+7/11 × 121/14-9/13 × 65/36)/(1/2 ÷ 4/5+3/4 × 16/15)

Concept used:

Calculation:

(3/4 ÷ 9/64+7/11 × 121/14-9/13 × 65/36)/(1/2 ÷ 4/5+3/4 × 16/15)

=> (3/4 × 64/9+11/2 -5/4)/(1/2 × 5/4+4/5)

=> (16/3+17/4)/(5/8+4/5)

=> ((64 + 51)/12)/((25 + 32)/40)

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=> (115/12)/(57/40)

=> (115 × 40)/(12 × 57)

=> 1150/171

Therefore Option 2 is the correct answer.

Q59. Answer: (d) 13 cm

Given:

Tangent drawn from a point P, touches the circle at Q.

O is the centre of this circle.

PQ = 12 cm and OQ = 5 cm,

Concept used:

1. The radius and tangent of a circle at a point of contact is always perpendicular to each other. So the angle is 90°.

2. Pythagoras Theorem: Base² + Perpendicular² = Hypotenuse²

Calculation:

According to the concept,

Since angle OQP is 90°, ΔPQO is a right-angled triangle.

OP is the hypotenuse.

Now, OP

=> √(OQ² + PQ²)

=> √(5² + 12²)

=> √169 = 13 cm

Therefore The value of OP is 13 cm.

Q60. Answer: (d) A + 5

Given:

The average of 5 consecutive even numbers is A

Calculation:

Let X is an even number.

So 5 five consecutive even numbers = X, X + 2, X + 4, X + 6 and X + 8

Avg = [5X + (2 + 4 + 6 + 8)] /5 = X + 4 = A

and if the next five even numbers X + 10, X + 12, X + 14, X + 16 and X + 18 are also included

then Average will become = [10X + 2(1 + 2 + ... + 9)]/10

= (10X + 90) / 10 = X + 9 = A + 5

Hence, A + 5 is the correct answer.

Q61. Answer: (b) 7/√13

Given:

sin A = 6/7

Concept:

sin²A + cos²A = 1 and

sec A = 1/cos A

Calculation:

=> cos A = √(1 - sin² A)

=> √(1 - (6/7)²) = √(1 - 36/49)

=> √(13/49) = √(13)/7

=> sec A = 1/cos A = 7/√(13)

Hence, the value of sec A is 7/√(13).

Q62. Answer: (a) Only II

Calculation:

I. The production of sugar by A in years J and K together is 7.69 percent more the production of sugar by B in year L and M together.

Production of sugar by A in years J and K together = 70 + 50 = 120

Production of sugar by B in year L and M together = 70 + 60 = 130

According to the question:

130 - 120 = 10

10/130 = 7.69%

The production of sugar by A in years J and K together is 7.69% less than the production of sugar by B in years L and M together.

Statement I is wrong.

II. The ratio of combined production of sugar by B in years M and N to the combined production of sugar by A in years K and L is 21 : 16.

Production of sugar by B in years M and N = 60 + 45 = 105

Production of sugar by A in years K and L = 50 + 30 = 80

Ratio = 105 : 80 = 21 : 16

Statement II is correct.

Therefore Option 1 is the correct answer.

Q63. Answer: (c) 60 km/hr

Given:

Speed1 = 80 km/hr

Speed2 = 50 km/hr

Time difference between the two cases = 60 mins early + 48 mins late = 108 mins = 108/60 hrs

Concept:

In the equation Time = Distance/Speed, the difference in the times traveled at the two speeds will give the usual time taken to reach the office.

Calculation:

=> Let the usual time be 'T' hours, and the distance be 'D' kilometers.

=> D/80 = T - 1

=> D/50 = T + 48/60

=> Subtracting these two equations we get,

=> D/50 - D/80 = 1 + 4/5

=> D = 80 × 3

=> D = 240 km

=> Usual time = D/T = 240/80 = T - 1

T = 4hr

Usual speed = 240/4 = 60km/hr

Hence, the speed of the scooter to reach on the usual time is 60 km/hr.

Q64. Answer: (b) 500

Given:

P = 420

Concept:

Using the given percentages, we can determine the values of Q and R from P.

Calculation:

P = 120% of Q

=> P = 1.2Q

=> Q = P/1.2 = 420/1.2 = 350

=> Q = 0.7R

=> R = Q / 0.7 = 350/0.7 = 500

Hence, the value of R is 500.

Q65. Answer: (a) Rs. 2,100

Given:

Selling Price (SP) = Rs. 1,260

Discount = 40%

Concept:

The marked price (MP) is calculated by dividing the Selling Price by (1 - Discount/100).
Calculation:
=> MP = SP / (1 - Discount/100)
=> MP = 1260 / (1 - 40/100) = Rs. 2100
Hence, the marked price of the article is Rs. 2100.

Q66. Answer: (c) 45°

Shortcut Trick
Use the Substitution Method by testing the given options in the equation.
Substitute A = 45°: we know sin 45° = 1/√2 and cos 45° = 1/√2.
LHS = $2(1/\sqrt{2})^3 - (1/\sqrt{2}) = 2/(2\sqrt{2}) - 1/\sqrt{2} = 1/\sqrt{2} - 1/\sqrt{2} = 0$.
RHS = $(1/\sqrt{2}) - 2(1/\sqrt{2})^3 = 1/\sqrt{2} - 2/(2\sqrt{2}) = 1/\sqrt{2} - 1/\sqrt{2} = 0$.
Since LHS = RHS for A = 45°, it is the correct value.
Therefore The correct answer is 45°.
Alternate Method
Given: $(2\cos^3 A - \cos A) = (\sin A - 2\sin^3 A)$
Formula Used: $\cos 2A = 2\cos^2 A - 1$ and $\cos 2A = 1 - 2\sin^2 A$
=> $\cos A(2\cos^2 A - 1) = \sin A(1 - 2\sin^2 A)$
=> $\cos A \times \cos 2A = \sin A \times \cos 2A$
=> $\cos A \times \cos 2A - \sin A \times \cos 2A = 0$
=> $\cos 2A (\cos A - \sin A) = 0$
=> If $\cos 2A = 0$, then $2A = 90°$ => $A = 45°$
=> If $\cos A - \sin A = 0$, then $\sin A = \cos A$ => $\tan A = 1$ => $A = 45°$
Therefore The correct answer is 45°.
Additional Information
Double Angle Identities
$\cos 2A$ can be expressed as $\cos^2 A - \sin^2 A$, $2\cos^2 A - 1$, or $1 - 2\sin^2 A$.
Triple Angle Identities
$\sin 3A = 3\sin A - 4\sin^3 A$ and $\cos 3A = 4\cos^3 A - 3\cos A$.
Trigonometric Ratios at 45°
For A = 45°, $\sin A = \cos A = 1/\sqrt{2}$, which makes $\tan A = 1$ and $\cot A = 1$.

Q67. Answer: (c) 81.25

Calculation:
Loss on article P = 300 - 250 = 50
Loss on article Q = 400 - 375 = 25
Loss on article R = 350 - 250 = 100
Loss on article S = 500 - 350 = 150
=> Total loss = 50 + 25 + 100 + 150 = 325
=> Average loss = Total loss / Number of articles = 325 / 4 = 81.25
Hence, the average value of loss of all articles is Rs. 81.25.

Q68. Answer: (c) 44 days

Given:
A and B can complete the work in 20 days.
A is 20% more efficient than B.
Concept used:
Total Wok Done = Number of Days × Efficiency
Calculation:
The ratio of efficiency of A and B = 6 : 5
Let the efficiencies (work is done per day) of A, and B be 6x and 5x respectively.
Total Wok Done = Number of Days × Efficiency
=> 20 × (6x + 5x)

=> 20 × 11x

=> 220x

The time is taken by B alone to complete the work = 220x/5x

=> 44 days

Therefore B can complete the whole work in 44 days.

Q69. Answer: (d) 488

Given:

$K/(k^2-2 \sim K+1)=1/6$

Concept Used:

If $x + 1/x = a$, then

$x^3 + 1/x^3 = a^3 - 3a$

Calculation:

$K/(k^2-2 \sim K+1)=1/6$

Take K common from numerator and denominator

$1/(K-2 +1/K)=1/6$

$K-2 +1/K = 6$

$K+1/K = 8$

$K^3+1/(K^3) = 8^3 - 3\times 8$

$K^3+1/(K^3) = 512 - 24= 488$

Therefore Option 4 is the correct answer.

Q70. Answer: (b) 4 √231 cm²

Given:

ΔABC is similar to ΔPQR.

Length of sides in ΔABC: AB = 4 cm, BC = 8 cm, AC = 10 cm.

QR = 16 cm in ΔPQR.

Concept Used:

The ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.

Area of scalene triangle = $\sqrt{s(s - a)(s - b)(s - c)}$,

where s = semi perimeter = sum of sides/2, and a, b, c are the sides of triangle.

Solution:

For ΔABC and ΔPQR, since ΔABC ~ ΔPQR, the ratio of corresponding sides QR/BC = 16/8 = 2.

The ratio of the areas of ΔABC and ΔPQR will be the square of the ratio of their corresponding sides.

=> Area(ΔPQR)/Area(ΔABC) = $(QR/BC)^2 = 2^2 = 4$.

Now the area of ΔABC

=> s = (4 + 8 + 10)/2 = 11 cm

=> Area of ΔABC = $\sqrt{11(11 - 4)(11 - 8)(11 - 10)}$

=> $\sqrt{11 \times 7 \times 3 \times 1} = \sqrt{231}$ cm²

Area of ΔPQR = 4 × Area of ΔABC = 4√231 cm2

Therefore Option 2 is the correct answer.

Q71. Answer: (d) 70 degree

Given:

The angle subtended by a chord on the major arc of a circle is 140 degrees.

Concept used:

The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

Calculation:

Let O, R, and PQ be the centre, a point on the major arc, and the aforementioned chord respectively.

So, the major arc for the PQ chord is PRQ.

Hence, angle POQ = 140°

Here, angle POQ is the angle subtended by the same chord, PQ on the centre of the circle.

According to the concept,

angle POQ = 2 × angle PRQ
=> angle PRQ = 140°/2
=> angle PRQ = 70°
Therefore the angle subtended by the chord AB on the major arc of the circle is 70°.

Q72. Answer: (c) 8000

Calculation:
Total number of passports issued in 6 consecutive years = 7000 + 9000 + 7500 + 9500 + 6500 + 8500 = 48000
Average = 48000/6 = 8000
Therefore Option 3 is the correct answer.

Q73. Answer: (d) 55

Given:
(a + b) = 16
$a^3 + b^3 = 1456$
Concept used:
Use the formula $a^3 + b^3 = (a+b)(a^2 + b^2 - ab)$
$(a + b)^2 = a^2 + b^2 + 2ab$
Calculation:
Solving for ab :
=> (a + b)2 = a2 + b2 + 2ab
=> 162 = a2 + b2 + 2ab
=> a2 + b2 = 162 - 2ab
Now,
=> $a^3 + b^3 = (a+b)(a2 + b2 - ab)$
=> 1456 = 16(162 - 2ab - ab)
=> 1456/16 = (256 - 3ab)
=> 91 = (256 - 3ab)
=> 3ab = 256 - 91
=> ab = 165/3 = 55
Hence, the value of ab is 55.

Q74. Answer: (c) 6

Calculation:
Players have height less than 141 cm = 1 + 3 + 2 = 6 players
Therefore Option 3 is the correct answer.

Q75. Answer: (a) Rs. 3,480

Given:
Cost Price (CP) = Rs. 4,000
Loss = 13%
Concept Used:
The Selling Price (SP) is found by subtracting the loss from the Cost Price.
Calculation:
Loss amount = Loss/100 × CP = 13/100 × 4000 = Rs. 520
Selling Price = CP - Loss = 4000 - 520 = Rs. 3480
Hence, the selling price of the watch is Rs. 3480.

Q76. Answer: (b) Fly

The solution is in Hindi. Read it online.

Q77. Answer: (b) To lose an opportunity

The solution is in Hindi. Read it online.

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Q78. Answer: (c) to meet society new needs.

The correct answer is 'Option 3'.

Key Points

• The error is in the part "to meet society new needs."

• The correct phrase should be "to meet society's new needs."

• In English, when you want to indicate that something belongs to someone or something, you use the possessive form, which is often made by adding an apostrophe and an "s" at the end of the word.

• Here, "society's new needs" means "the new needs of society."

Therefore, the corrected sentence would be: "Workers and companies in all sectors can contribute their skills to meet society's new needs."

Q79. Answer: (b) keep a

The correct answer is 'Option 2' i.e. 'Keep a'.

Key Points

• The correct improvement for the sentence "We keeps a horse, two cows, and six chickens." is "keep a."

• In English, the verb "to keep" means to own or have possession of something.

• When using it with plural subjects such as "we," "you," or "they," the form of the verb remains "keep."

• It only changes to "keeps" when the subject is third person singular, i.e., "he," "she," or "it."

Therefore, the corrected sentence would be: "We keep a horse, two cows, and six chickens."

Q80. Answer: (d) Miranda told her teacher that she had been sick for a day.

The correct answer is 'Miranda told her teacher that she had been sick for a day'.

Key Points

• The correct indirect form of the sentence "Miranda said to her teacher, 'I was sick for a day.'" is "Miranda told her teacher that she had been sick for a day."

• When converting direct speech into indirect speech, the tense of the verbs usually shifts back (this is known as "backshifting").

• In this case, the past simple tense "was" changes to the past perfect tense "had been."

• This shift accurately conveys the timing of the events in the indirect speech.

Therefore, the correct sentence is: 'Miranda told her teacher that she had been sick for a day.'

Additional Information

• Let's look at the other options:

• "Miranda told her teacher that she has been sick for a day." - This is incorrect because the present perfect "has been" doesn't accurately convey the timing of past events in indirect speech.

• "Miranda told her teacher that she is sick for a day." - This is incorrect because the present tense "is" doesn't accurately represent the past events conveyed in the original direct speech.

• "Miranda told her teacher that she was sick for a day." - Although it might seem correct in some contexts, in proper English grammar, while changing from direct to indirect speech, the tense usually shifts back. Therefore, "was" should become "had been."

Q81. Answer: (b) Moderate

The solution is in Hindi. Read it online.

Q82. Answer: (b) He seemed to be taller than him.

The correct answer is 'Option 2'.

Key Points

• The sentence with no spelling error is: "He seemed to be taller than him."

• Here's why:

• "He semed to be taller than him." - This sentence has a spelling error. The correct spelling of "semed" should be "seemed."

• "He seemed to be taller than him." - This sentence is spelled correctly. The verb "seemed" is spelled right, and so are the other words in the sentence.

• "He seemed to be taler than him." - This sentence has a spelling error. The correct spelling of "taler" should be "taller."

• "He seemed to bee taller then him." - This sentence has two spelling errors. "Bee" should be "be," and "then" should be "than." In this context, "than" is used as a conjunction to make a comparison between two things, while "then" is used to denote time or sequence.

Therefore, the correct sentence is: "He seemed to be taller than him."

Q83. Answer: (c) Clear

The solution is in Hindi. Read it online.

Q84. Answer: (d) Cascade

The solution is in Hindi. Read it online.

Q85. Answer: (d) QRSP

The correct answer is 'Option 4'.

Key Points

• The correct order of the sentence is "QRSP."

• Here's why:

• Q. "In the early 20th century it was almost universally assumed" - This part of the sentence sets the historical context and introduces the assumption that is about to be explained, making it a logical starting point for the sentence.

• R. "that traditional cultures would be completely assimilated" - This part follows Q naturally as it explains what was assumed.

• S. "into colonial cultures within a few decades, thus" - This part continues the assumption explaining the result of the assimilation in a given time frame and uses "thus" to lead into the consequence of this assumption.

• P. "undermining the strict application of comparative anthropology" - This is the consequence of the assumption, making it the logical end to the sentence.

Therefore, the correct order is QRSP i.e. "In the early 20th century it was almost universally assumed (Q) that traditional cultures would be completely assimilated (R) into colonial cultures within a few decades, thus (S) undermining the strict application of comparative anthropology (P)."

Q86. Answer: (c) Recipes are written by Susan for the cookbook.

The correct answer is 'Recipes are written by Susan for the cookbook.'

Key Points

• The correct passive form of the given sentence "Susan writes recipes for the cookbook." is "Recipes are written by Susan for the cookbook."

• When converting from active to passive voice, the object of the active sentence becomes the subject of the passive sentence.

• The verb in the passive sentence is formed by using a form of "be" followed by the past participle of the main verb.

• The subject of the active sentence becomes the agent in the passive sentence, introduced by the word "by."

• In the given sentence, "recipes" is the object that becomes the subject in the passive form.

• The verb "writes" becomes "are written" in the passive voice, and the subject "Susan" becomes the agent, introduced by "by."

Therefore, the correct answer is: 'Recipes are written by Susan for the cookbook.'

Q87. Answer: (a) RQPS

The correct answer is 'Option 1'.

Key Points

• The correct order of the sentence is "RQPS."

• Here's why:

• R. "occur naturally when temperature, water, and" - This part sets the stage for the conditions under which algal blooms occur, making it the logical starting point after the given start of the sentence "Some algal blooms."

• Q. "nutrient conditions are optimal, and they can be" - This part logically follows R, finishing the list of conditions and introducing the idea that these blooms can be beneficial.

• P. "beneficial to aquatic life, since these tiny" - This part continues the idea introduced by Q, explaining how these blooms are beneficial, which is because these tiny organisms...

• S. "organisms form the base of the food chain" - This part logically finishes the sentence by explaining why the tiny organisms mentioned in P are beneficial.

Therefore, the correct order is RQPS. i.e. "Some algal blooms occur naturally when temperature, water, and nutrient conditions are optimal, and they can be beneficial to aquatic life, since these tiny organisms form the base of the food chain."

Q88. Answer: (b) properly treated

The correct answer is 'Option 2'.

Key Points

• The correct way to improve the underlined part of the sentence, "If proper treat," is to replace it with "If properly treated."

• The word "properly" is an adverb, and adverbs are used to modify verbs, adjectives, or other adverbs.

• In this case, "properly" is used to modify the verb "treated."

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• The original sentence incorrectly used the noun "treat" instead of the past participle "treated" to form the passive voice.

Therefore, the correct sentence would be: "If properly treated, the wound should heal within a few weeks."

Q89. Answer: (a) then 6 years of

The correct answer is 'Option 1'.

Key Points

• The part of the sentence that has an error is "then 6 years of".

• The correct word to use here is "than", not "then".

• "Than" is a conjunction used in comparisons, while "then" is an adverb typically referring to time.

Therefore, the correct sentence would be: "We have more than 6 years of experience in field hockey."

Q90. Answer: (c) Igneous

The solution is in Hindi. Read it online.

Q91. Answer: (d) who are part of the cricket crowds, some of whom are presumably born in England

The correct answer is 'Option 4'.

Key Points

• In English, "who" is used as the subject of a verb, while "whom" is used as the object of a verb or preposition.

• In the sentence, "who" is the correct pronoun to use after "people" as it is the subject of the verb "are."

• In the second part of the sentence, "whom" is the correct pronoun because it is the object of the preposition "of."

Therefore, the correct sentence would be: "But what of the young people who are part of the cricket crowds, some of whom are presumably born in England?"

Q92. Answer: (b) Sleam

The solution is in Hindi. Read it online.

Q93. Answer: (a) PSRQ

The correct answer is 'Option 1'.

Key Points

• The correct order of these sentences is indeed PSRQ, which tells a coherent and chronological story about Marley's illness and death.

• Here's the reasoning:

• P. "In July 1977, Marley was found to have a type of malignant melanoma (cancer) under the nail of a toe." - This sentence is logically first as it introduces the subject of Marley's illness.

• S. "Marley turned down his doctors' advice to have his toe amputated, citing his religious beliefs." - This sentence logically follows P because it describes Marley's response to his diagnosis.

• R. "Despite his illness, he continued touring until his health deteriorated as the cancer had spread throughout his body." - This sentence follows S, describing what happened after Marley declined the recommended medical treatment.

• Q. "He died on 11 May 1981 at Cedars of Lebanon Hospital in Miami (now University of Miami Hospital) at the age of 36." - This sentence logically concludes the sequence, giving the final result of Marley's illness.

Therefore, the correct sentence reads: "In July 1977, Marley was found to have a type of malignant melanoma (cancer) under the nail of a toe. Marley turned down his doctors' advice to have his toe amputated, citing his religious beliefs. Despite his illness, he continued touring until his health deteriorated as the cancer had spread throughout his body. He died on 11 May 1981 at Cedars of Lebanon Hospital in Miami (now University of Miami Hospital) at the age of 36." This sequence (PSRQ) is therefore the correct answer.

Q94. Answer: (c) Know somebody/something slightly

The solution is in Hindi. Read it online.

Q95. Answer: (c) calming

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

Key Points

• The appropriate word to fill in the blank in the sentence "Taking a deep, _____ breath, I start again, successfully loading the filter and placing the cup underneath." is "calming".

• The sentence context is about taking a breath before restarting a task, which suggests that the person is trying to calm themselves.

• The adjective "calming" fits well here as it describes the purpose of the deep breath, which is to calm oneself.

Therefore, the correct sentence is: 'Taking a deep, calming breath, I start again, successfully loading the filter and placing the cup underneath.

Additional Information

• Let's look at the other options:

• "Penetrating" - This adjective often describes something that can pass into or through something else, like a sharp object or a strong smell. It doesn't make sense to describe a breath as "penetrating" in this context.

• "Surrogating" - This isn't an appropriate word to describe a breath. A surrogate is a substitute, usually for a person or a role. The verb form "to surrogate" isn't typically used to describe taking a breath.

• "Jamming" - This term often refers to blocking, filling, or crowding something in a way that obstructs its normal functioning. It's not appropriate to describe a breath as "jamming" in this context.

Q96. Answer: (b) making

The correct answer is 'Option 2' i.e. 'Making'.

Key Points

• The most appropriate option to fill in blank number 1 is "making".

• In this context, the speaker is talking about the process of creating the perfect cup of coffee.

• The word "making" fits this context perfectly as it refers to the act of creating or preparing something.

• The sentence "there's definitely something to be said about making the perfect cup of coffee" suggests that the process of creating a perfect cup of coffee is a noteworthy or significant task.

Therefore, the correct sentence is: 'Yes, there's definitely something to be said about making the perfect cup of coffee. I'm staring (2)_____ the machine again, but today I'm smiling. I've done it - the correct amount of foam, the (3)____ like silk and the little dusting of chocolate, (4)____ a perfect heart on the top. It's just a shame that it's me who is drinking it, not a/an (5)_____ customer.

Additional Information

• Now, let's look at the other options:

• "Sobbing" - This term refers to crying noisily with a series of short, sharp sounds. This does not fit the context of creating a perfect cup of coffee.

• "Breaking" - This word usually means damaging something so that it is in pieces or no longer in one piece. This does not fit the context of creating a perfect cup of coffee.

• "Loading" - This term generally refers to the action of putting goods or equipment onto a vehicle, ship, or aircraft. This does not make sense in the context of creating a perfect cup of coffee.

Q97. Answer: (b) at

The correct answer is 'Option 2' i.e. 'At'.

Key Points

• The most appropriate option to fill in blank number 2 is "at".

• In this context, the speaker is looking at the coffee machine, so the appropriate preposition to use is "at".

• The preposition "at" is used to indicate direction or location, particularly when someone is looking in the direction of something or someone.

• Therefore, "I'm staring at the machine again" would be the correct phrase.

Therefore, the correct sentence is: 'Yes, there's definitely something to be said about making the perfect cup of coffee. I'm staring at the machine again, but today I'm smiling. I've done it - the correct amount of foam, the (3)_____ like silk and the little dusting of chocolate, (4)____ a perfect heart on the top. It's just a shame that it's me who is drinking it, not a/an (5)_____ customer.

Additional Information

• Let's examine the other options:

• "Of" - This preposition is often used to express belonging, possession, or origin, which doesn't fit in this context.

• "To" - This preposition usually indicates direction towards something or someone. In the case of "staring", "at" is generally used instead of "to".

• "On" - This preposition indicates that something is in a position above something else and touching it, or that something is moving on a surface. It doesn't make sense in the context of staring at the machine.

Q98. Answer: (d) smoothness

The correct answer is 'Option 4' i.e. 'Smoothness'.

Key Points

• The most appropriate option to fill in blank number 3 is "smoothness".

• In this context, the speaker is likely referring to the texture or quality of the coffee or perhaps the milk foam on top.

• Given the comparison "like silk", "smoothness" is the most fitting choice because it captures the idea of a silky, pleasant texture which is often associated with a well-prepared cup of coffee.

Therefore, the correct sentence is: 'Yes, there's definitely something to be said about making the perfect cup of coffee. I'm staring at the machine again, but today I'm smiling. I've done it - the correct amount of foam, the smoothness like silk and the little dusting of chocolate, (4)_____ a perfect heart on the top. It's just a shame that it's me who is drinking it, not a/an (5)_____ customer.

Additional Information

• Let's look at the other options:

• "Cruelty" - This term refers to the quality of being cruel or mean. It doesn't fit in this context which describes the characteristics of a perfect cup of coffee.

• "Irrationality" - This word means the quality of being unreasonable or illogical. Again, this isn't a suitable choice for describing a characteristic of a perfect cup of coffee.

• "Rigidity" - This term refers to the inability to be changed or adapted, or a quality of being stiff. Neither meaning fits well in this context.

Q99. Answer: (a) forming

The correct answer is 'Option 1' i.e. 'Forming'.

Key Points

• The most appropriate option to fill in blank number 4 is "forming".

• In this context, the speaker is describing the process of creating a heart shape on top of the coffee, likely with the dusting of chocolate.

• The word "forming" fits best here because it indicates the act of making or creating a particular shape.

• Therefore, "forming a perfect heart on the top" would be the correct phrase.

Therefore, the correct sentence is: 'Yes, there's definitely something to be said about making the perfect cup of coffee. I'm staring at the machine again, but today I'm smiling. I've done it - the correct amount of foam, the smoothness like silk and the little dusting of chocolate, forming a perfect heart on the top. It's just a shame that it's me who is drinking it, not a/an (5)_____ customer.

Additional Information

• Now, let's look at the other options:

• "Formerly" - This adverb means in the past or previously. It doesn't make sense in the context of creating a shape on top of a coffee.

• "Forcing" - This term generally refers to making something happen or making someone do something by using physical strength or by other means such as persuasion. It doesn't fit in this context.

• "Formation" - This noun refers to the action of forming or the state of being formed. However, we need a verb in this sentence to denote the action being taken, making "forming" a better fit than "formation".

Q100. Answer: (a) appreciative

The correct answer is 'Option 1' i.e. 'Appreciative'.

Key Points

• The most appropriate option to fill in blank number 5 is "appreciative".

• In this context, the speaker is expressing a bit of regret that they're the one drinking the perfectly made coffee, instead of a customer who could appreciate their work.

• The word "appreciative" fits best here because it describes a person who would be grateful or would highly value the effort put into making the perfect cup of coffee.

Therefore, the correct sentence is: 'Yes, there's definitely something to be said about making the perfect cup of coffee. I'm staring at the machine again, but today I'm smiling. I've done it - the correct amount of foam, the smoothness like silk and the little dusting of chocolate, forming a perfect heart on the top. It's just a shame that it's me who is drinking it, not a/an appreciative customer.

Additional Information

• Now, let's look at the other options:

• "Calculative" - This word describes someone who is carefully thinking about the consequences of different actions, often in a way that is perceived as cunning or scheming. This does not fit the context well.

• "Famished" - This word means extremely hungry. Although a famished customer might indeed want a cup of coffee, it doesn't express the idea of someone who would appreciate the skill and artistry of the perfect cup of coffee that has been made.

• "Satiated" - This term refers to someone who is fully satisfied, usually in the context of hunger or desire. This is not a fitting description for the customer in this scenario because it suggests that the customer is already fulfilled, while the context suggests that the perfect coffee should be enjoyed by someone who would appreciate it.

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