SSC CHSL Previous Paper 6 (Held On: 18 March 2020 Shift 3) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. Directions: In the sentence identify the segment which contains the grammatical error.

The simplest way to get proper recognition are through doing things with dedication and sincerity.

(a) are through doing things
(b) with dedication and sincerity
(c) to get proper recognition
(d) The simplest way

Q2. Directions: Select the most appropriate meaning of the given idiom.

Cut to the chase

(a) Stopping unexpectedly and missing the chase
(b) Talking about the important point and leaving out the detail
(c) Cutting long pieces and spoiling the dish cooked
(d) Sleeping long hours and spoiling the health

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

EXPLICIT

(a) Compatible
(b) Unintelligible
(c) Equivocal
(d) Lucid

Q4. Directions: Select the word which means the same as the group of words given.

A person who speaks always in praise of himself

(a) Conventionalist
(b) Egotist
(c) Nationalist
(d) Evangelist

Directions

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

Everyone wants to be happy. I also want to be happy (1)____ that's when I am at my best. I know that happiness comes from (2)__, not from outside. The (3)__ tools I will have to learn to use here will only work if I understand that I'm in (4)__ of my thoughts, actions and emotions and if I'm willing to do some simple exercises on a (5)____ basis.

Q5. Select the most appropriate option for blank No. 1

(a) until
(b) nevertheless
(c) because

(d) unless

Q6. Select the most appropriate option for blank No. 2

(a) within
(b) for
(c) on
(d) around

Q7. Select the most appropriate option for blank No. 3

(a) stable
(b) powerful
(c) effortless
(d) affective

Q8. Select the most appropriate option for blank No. 4

(a) frame
(b) custody
(c) structure
(d) charge

Q9. Select the most appropriate option for blank No. 5

(a) temporary
(b) regular
(c) stimulant
(d) legal

Q10. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

As long as they are here, Hari won't attend the training.

(a) So far as
(b) So long so
(c) As long that
(d) No improvement

Q11. Directions: Select the most appropriate ANTONYM of the given word.

CLOUDY

(a) Vague
(b) Transparent
(c) Indefinite
(d) Murky

Q12. Directions: Select the correct passive form of the given sentence.

Sheetal might have misplaced Mohan's wallet in their rush.

(a) Mohan's wallet might have been misplaced by Sheetal in their rush.
(b) Mohan's wallet may have been misplaced by Sheetal in their rush.
(c) Mohan's wallet may be misplaced by Sheetal in their rush
(d) Mohan's wallet might be misplaced by Sheetal in their rush.

Q13. Directions: Given below are four jumbled sentences. Out of the given options select the one that gives their correct order.

A. Though John found none, he was not ready to give in.

B. He continued the search till noon.

C. John wanted to have a big well dug.

D. He searched around for workers who would do the job for him without pay.

(a) DCAB

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(b) CADB
(c) CDBA
(d) CDAB

Q14. Directions: Select the correct indirect form of the given sentence.
The storekeeper asked the security, "Did you see the torch I kept here?"
(a) The storekeeper asked the security whether he had seen the torch he had kept there.
(b) The storekeeper asked the security whether he saw the torch he had kept there.
(c) The storekeeper asked the security if he saw the torch he kept there.
(d) The storekeeper asked the security if had he seen the torch he kept there.

Q15. Directions: Select the word which means the same as the group of words given.
Painless death given to patients to relieve suffering.
(a) Euphemism
(b) Euphorbia
(c) Euthanasia
(d) Euphoria

Q16. Directions: Select the most appropriate word to fill in the blank.
People readily accept any _____ of their leaders if supported by the media.
(a) concession
(b) compromise
(c) dispute
(d) argument

Q17. Directions: Select the most appropriate ANTONYM of the given word.
PLACATE
(a) Propitiate
(b) Enrage
(c) Appease
(d) Conciliate

Q18. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select ‘No improvement’.
Lot of times she advised him for not being lazy for completing such a tough task.
(a) A lot of times
(b) Much of time
(c) A lot of time
(d) No improvement

Q19. Directions: Select the most appropriate synonym of the given word.
INSTIGATE
(a) Kindle
(b) Imbibe
(c) Instill
(d) Stagnate

Q20. Directions: Select the wrongly spelt word.
(a) Envioronment
(b) Pollutant
(c) Residual
(d) Solvent

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Q21. Directions: In the sentence identify the segment which contains the grammatical error.

The man with a lost eye have been accused of murder of two girls in his neighbourhood.

(a) have been accused of
(b) The man with a lost eye
(c) in his neighbourhood
(d) murder of two girls

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

Keep a civil tongue

(a) Express dissent mildly
(b) Speak with great politeness
(c) Argue with soft words
(d) Maintain silence when needed

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

Success is the _____ of taking risks, everybody knows.

(a) tension
(b) pressure
(c) burden
(d) by-product

Q24. Directions: Select the wrongly spelt word.

(a) Allopathy
(b) Homoepathy
(c) Naturopathy
(d) Telepathy

Q25. Directions: Given below are four jumbled sentences. Out of the given options select the one that gives their correct order.

A. When Franco was young; he would stay at sea all night.

B. Every morning, he would arrive with a big catch of fresh fish and sell it in the market.

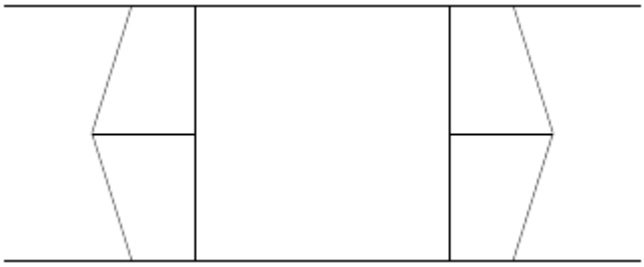
C. Franco was a fisherman who lived on the beach.

D. He had been fishing for as long as he could remember.

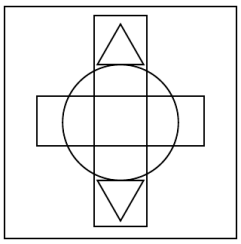
(a) CDBA
(b) CDAB
(c) CBDA
(d) DCAB

GENERAL INTELLIGENCE

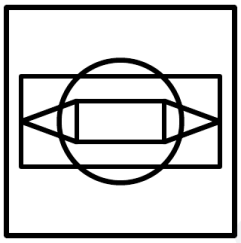
Q26. Select the option in which the given figure is embedded. (Rotation is not allowed)



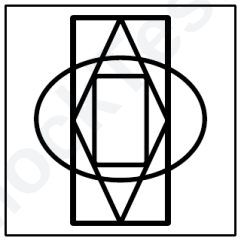
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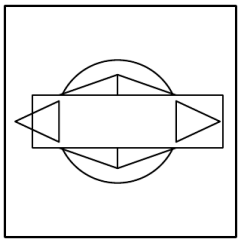
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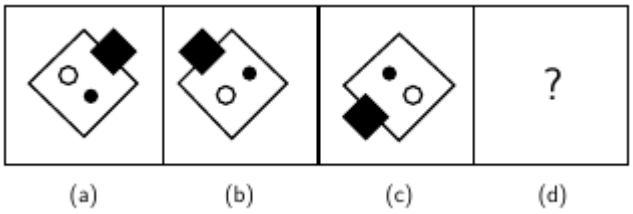
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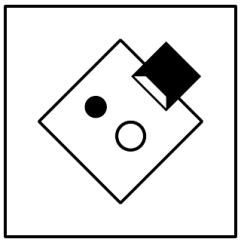
(d)



Q27. Select the option figure that can replace the question mark (?) in the following series.

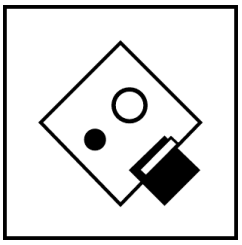


(a)

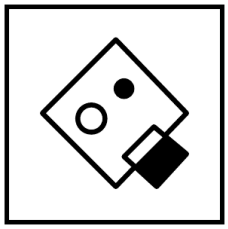


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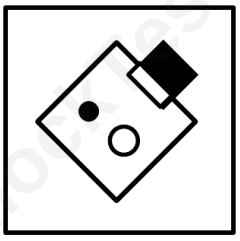
(b)



(c)



(d)



Q28. In a certain code language, SUM is coded as 62 and POT is coded as 66. How will HULK coded as in that language?

(a) 132
(b) 130
(c) 120
(d) 112

Q29. The sum of the ages of 4 friends A, B, C and D is 70 years. What would be the total of their ages 5 years later?

(a) 90
(b) 65
(c) 85
(d) 75

Q30. Four letter-cluster have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

(a) LMH
(b) UVS
(c) HIF
(d) YZW

Q31. If A is the sister of B, C is the father of D, L is paternal uncle of D and B is the sister of L, the how is A related to D?

(a) Mother
(b) Paternal aunt
(c) Sister
(d) Paternal grandmother

Q32. Select the number that can replace the question mark (?) in the following series.

2, 7, 23, 72, 220, ?

(a) 500
(b) 600

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(c) 665
(d) 472

Q33. Select the option that is related to the third word in the same as the second word is related to the first word.

Needle : Sew :: Auger :?

(a) View
(b) Feed
(c) Dig
(d) Bore

Q34. Select the correct combination of mathematical signs to replace 'A' sequentially and balance the following equation.

16 A 8 A 6 A 3 A 4

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

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

50 : 357

(a) 18 : 133
(b) 15 : 115
(c) 17 : 136
(d) 20 : 153

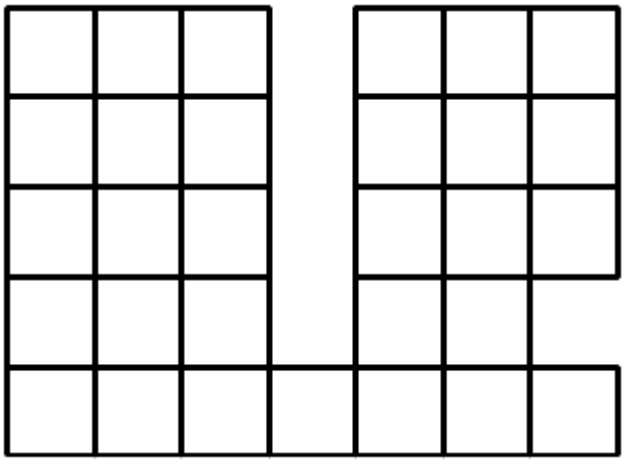
Q36. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) Stag
(b) Larva
(c) Nymph
(d) Foal

Q37. The six faces of a dice have been marked with the letters A, B, C, D, E and F. If A is adjacent to B, C, and E, then which of the following statements is true?

(a) A is adjacent to D
(b) A is adjacent to F
(c) B is adjacent to E
(d) D is adjacent to F

Q38. How many squares are there in the following figure?

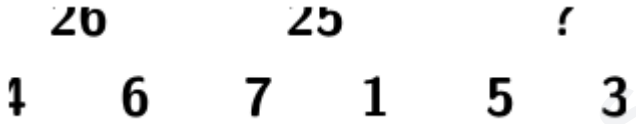


(a) 39
(b) 53
(c) 48

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(d) 60

Q39. Study the given pattern carefully and select the number that can replace the question mark (?) in it.



(a) 17
(b) 19
(c) 24
(d) 22

Q40. Arrange the given words in a logical and meaningful sequence.

1. Sun
2. Asteroid
3. Planet
4. Galaxy

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

Q41. Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

_ _ m _ oznz _ _ no _ _ zzm

(a) zznzmzn
(b) zznznzm
(c) nznnzzn
(d) znzmznn

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

(a) 198 : 981
(b) 132 : 321
(c) 246 : 426
(d) 954 : 549

Q43. Select the option in which the numbers are related in the same way as are the numbers in the given set.

(12, 96, 8)

(a) (7, 63, 9)
(b) (15, 50, 5)
(c) (8, 40, 6)
(d) (13, 39, 4)

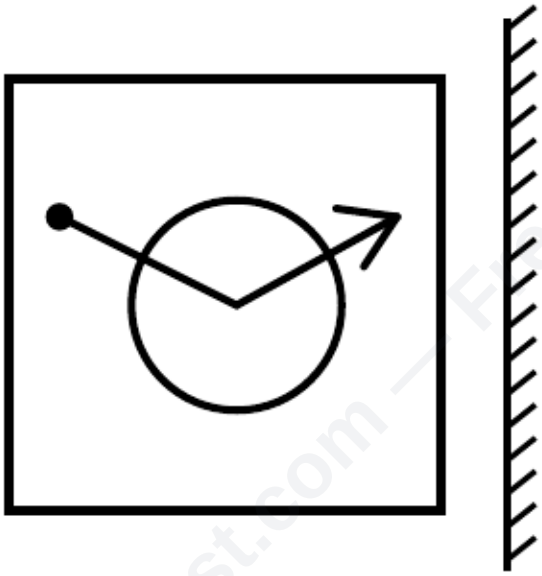
Q44. Select the option in which the words share the same relationship as that shared by given pair of words.

Cow : Byre

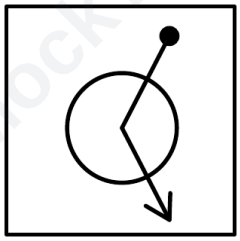
(a) Owl : Barn
(b) Stage : Doe
(c) Nun : Monk
(d) Rat : Rodent

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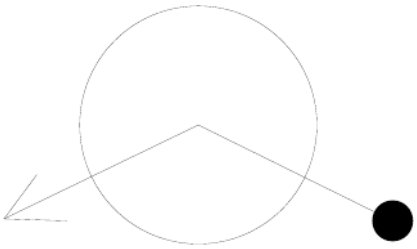
Q45. Select the correct mirror image of the given figure.



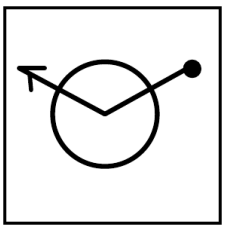
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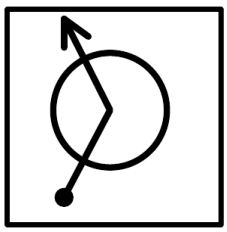
(b)



(c)

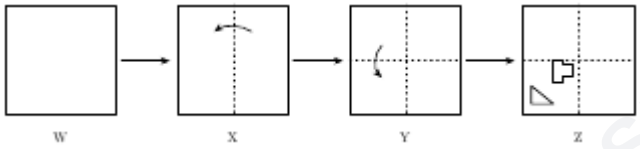


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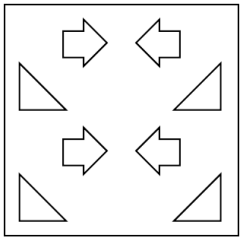


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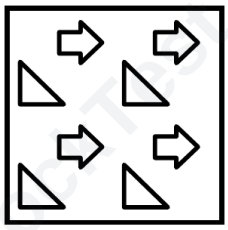
Q46. The sequence of folding a paper and the manner in which the folded paper has been cut shown in the following figures. How would this paper look when unfolded?



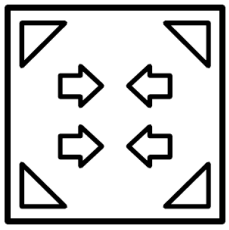
(a)



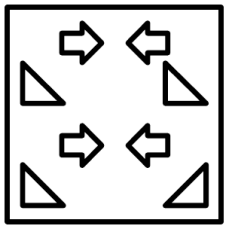
(b)



(c)



(d)



Q47. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

CELH : GANF :: BUPO : ?

(a) HUML
(b) XYNQ
(c) FQRM
(d) DYXH

Q48. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Statements:

1. Some buns are tarts
2. All tarts are pastries.

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3. All pastries are breads.

Conclusions:

I. Some breads are buns.

II. Some pastries are buns.

III. Some tarts are buns.

IV. Some buns are breads.

(a) Only conclusions I and IV follow

(b) Only conclusions II and III follow.

(c) All the conclusions follow.

(d) Only conclusions I and II follow.

Q49. In a certain code language, 'JACKET' is written as 'MEHQLB'. How will 'BLAZER' be written as in the language?

(a) EPFFLZ

(b) DOEFLZ

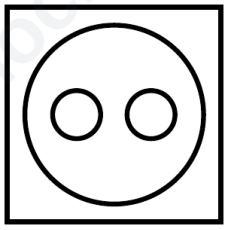
(c) DQPGLY

(d) EQFGLY

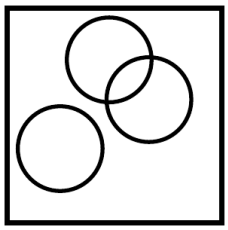
Q50. Select the Venn diagram that best represent the relationship between the following classes.

Guitar, Instrument, Thermometer

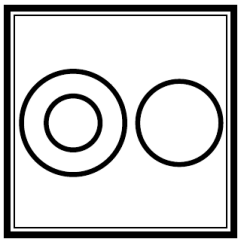
(a)



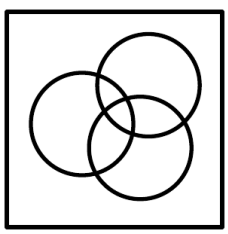
(b)



(c)



(d)



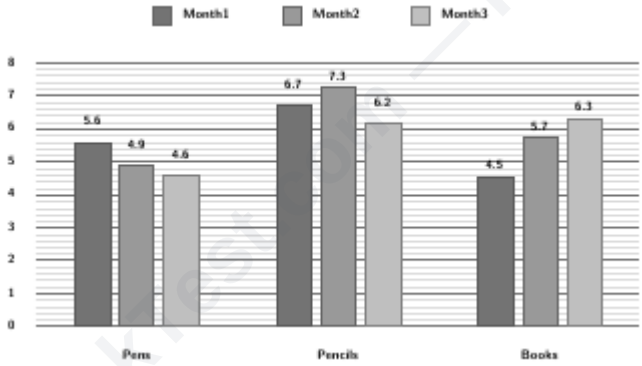
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QUANTITATIVE APTITUDE

Q51. If cos x = 3/5, then find the value of sin x - sin³ x.

(a) 0.476
(b) 0.288
(c) 0.358
(d) 0.389

Q52. The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2, and month3. Answer the question based on the chart.

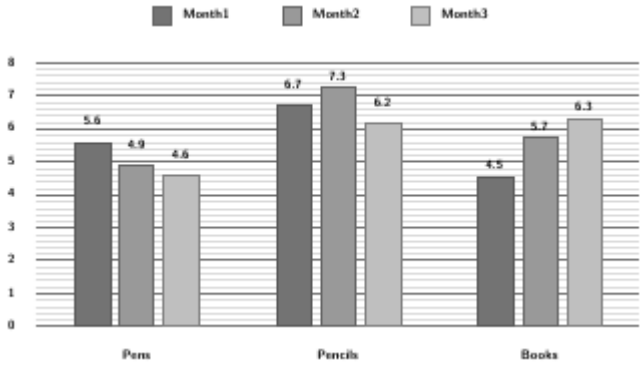


	Month1	Month2	Month3
Pens	5.6	4.9	4.6
Pencils	6.7	7.3	6.2
Books	4.5	5.7	6.3

Which product has the highest percentage of sales, and in which month (among all months)?

(a) Pens; Month 1
(b) Pencils; Month 2
(c) Pencils; Month 3
(d) Books; Month 3

Q53. The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2 and month3. Answer the question based on the chat.



	Month 1	Month 2	Month 3
Pens	5.6	4.9	4.6
Pencils	6.7	7.3	6.2
Books	4.5	5.7	6.3

Which month has the highest sales?

(a) Month 2

(b) Month 1
(c) Month 3
(d) Can not be determined

Q54. The perimeter of an isosceles triangle is 90 cm. If the base is 26 cm, then find the length of the equal sides.
(a) 42 cm
(b) 32 cm
(c) 30 cm
(d) 40 cm

Q55. The shadow of a tree is 1/(√3) times the length of tree. Find the angle of elevation.
(a) 30°
(b) 90°
(c) 45°
(d) 60°

Q56. If $\sin\theta = 0.96$, then find $\cot\theta$
(a) 0.2916
(b) 0.4563
(c) 0.4876
(d) 0.3456

Q57. If $2(a^2 + b^2) = (a + b)^2$ then,
(a) a = b
(b) b = 2a
(c) a = 2b
(d) a = -b

Q58. The average salary of a person for the months of February, March, April, and May is Rs. 12,000, and that for the month's March, April, May June is Rs. 13,000. If his salary for the month of June is Rs. 8,000, then what is his salary for the month of February?
(a) Rs. 4,500
(b) Rs, 5,500
(c) Rs, 4,000
(d) Rs. 5,000

Q59. A train covers a distance in 30 min if it runs at a speed of 54 km/h on an average. The speed at which the train must run to reduce the time of journey to 20 min is:
(a) 60 km/h
(b) none of these
(c) 81 km/h
(d) 75 km/h

Q60. In an isosceles right-angled triangle, the perimeter is 30 m. Find its area (Approximate)
[√2 = 1.4142]
(a) 38.63 m^2
(b) 40 m2
(c) 39.60 m2
(d) 37.86 m2

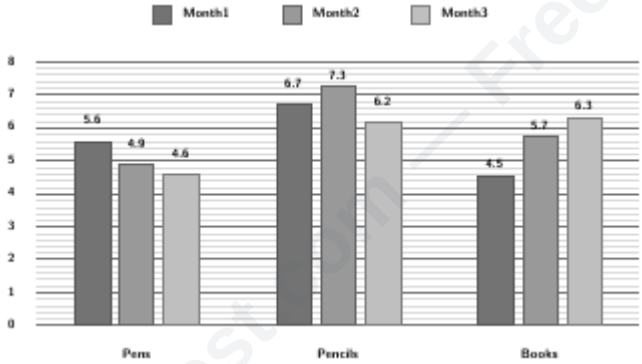
Q61. Which of the following options is divisible by 3?
(a) 3745932
(b) 4539763
(c) 2362735
(d) 6342589

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Q62. If $x^3 + y^3 = 16$ and $x + y = 4$, then find the value of $x^4 + y^4$

(a) 26
(b) 28
(c) 36
(d) 32

Q63. The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2 and month3. Answer the question based on the chat.



	Month1	Month2	Month3
Pens	5.6	4.9	4.6
Pencils	6.7	7.3	6.2
Books	4.5	5.7	6.3

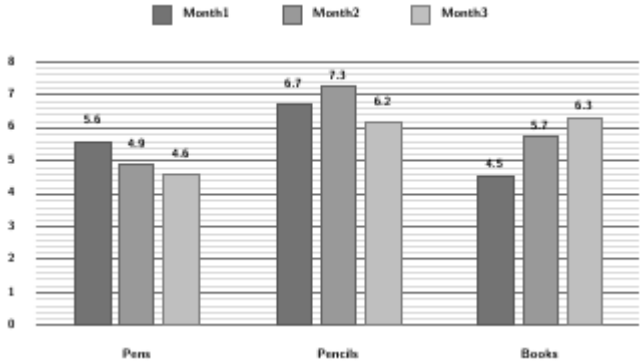
What is the average number of pens sold in the 3 months?

(a) 3987
(b) 4935
(c) 5033
(d) 5432

Q64. P can do a work in 10 days and Q can do the same work in 15 days. If they work on it together for 3 days, then the fraction of the work that is left is:

(a) 1/2
(b) 1/3
(c) 2/3
(d) 4/3

Q65. The following chart shows the sales (in thousands) of pens, pencils and books in month1, month2 and month3. Answer the question based on the chat.



	Month1	Month2	Month3
Pens	5.6	4.9	4.6
Pencils	6.7	7.3	6.2

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Books	4.5	5.7	6.3

Which product has the highest sales in all 3 months?

(a) None
(b) Books
(c) Pens
(d) Pencils

Q66. The length of a rectangular plot is five times of its breadth. If the area of the rectangular plot is 2000 m², then what is the breadth of the rectangular plot?

(a) 10 m
(b) 20 m
(c) 30 m
(d) 40 m

Q67. In an election, candidate X got 70% of the overall valid votes. If 20% of the overall votes were declared invalid and the total numbers of votes is 640000, then find the number of valid votes polled in favour of the candidate.

(a) 400000
(b) 358000
(c) 450000
(d) 358400

Q68. A single discount equivalent to the discount series of 25%, 15% and 10% is:

(a) 25%
(b) 30%
(c) 42.6%
(d) 40.2%

Q69. Two number are respectively 25% and 60% more than a third number. The ratio of the two number is:

(a) 21 : 31
(b) 20 : 35
(c) 20 : 30
(d) 25 : 32

Q70. Find the value of x, if 21^(^√x) + 20^(^√x) = 29^(^√x)

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

Q71. A tradesman marks his products 35% above the cost price and allows his customers 15% reduction on their bills. What percentage of profit does he make?

(a) 14.25
(b) 14
(c) 14.75
(d) 14.10

Q72. A person borrows Rs. 7,000 for 3 years at 5% p.a. simple interest. He immediately lends it to another persons at 6 1/3% p.a for 3 years. Find his gain in the transaction per year.

(a) Rs. 92`
(b) Rs. 95.33
(c) Rs. 93.33
(d) Rs. 90

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Q73. Two circles with the same centre P have radii 7.5 cm and 4.4 cm. Through a point A of the larger circle, a tangent is drawn to the smaller circle touching it at B and then intersecting the larger circle at C. Find AC (Approximate in cm)

(a) 13 cm
(b) 14 cm
(c) 14.27 cm
(d) 12.14 cm

Q74. The value of 1 + 3 + 5 + 7 + _____(2n - 1) is:

(a) (2n - 1) × (2n - 1)
(b) n/2
(c) (n(n + 1))/2
(d) n × n

Q75. Two small circular grounds of diameters 42 m and 26 m are to be replaced by a bigger circular ground. What would be the radius of the new ground if the new ground has the same area as two small grounds?

(a) 23 m
(b) 25.01 m
(c) 24.63 m
(d) 25 m

GENERAL AWARENESS

Q76. Name the filmmaker who made the Hindi film, ‘Chhapaak’, based on the story of an acid attack victim.

(a) Deepika Padukone
(b) Meghna Gulzar
(c) Rani Mukherji
(d) Yash Chopra

Q77. Kudankulam Nuclear Power Plant in Tamil Nadu is set up in collaboration with

(a) France
(b) Australia
(c) US
(d) Russia

Q78. Who won the ‘ICC Cricketer of the Year’, ‘ICC Test Player of the Year’ and ‘ICC ODI Player of the Year’ in 2018?

(a) Shikhar Dhawan
(b) Rishabh Pant
(c) Rohit Sharma
(d) Virat Kohli

Q79. Through a smart movement using a pawn, Himal Gusain outshone grandmaster NR Visakh. Which game are we talking about?

(a) Shooting
(b) Chess
(c) Carrom
(d) Table Tennis

Q80. Which of the following is the SI unit of thermodynamic temperature?

(a) Kelvin
(b) Fahrenheit
(c) Radian
(d) Celsius

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Q81. Who is known as the 'Father of the Nation' in India?

(a) Bhim Rao Ambedkar
(b) Mohandas Karamchand Gandhi
(c) Swami Vivekananda
(d) Mahadev Govind Ranade

Q82. In which of the following place, are the Dilwara temples of Jainism located?

(a) Indore
(b) Bhubaneswar
(c) Jaipur
(d) Mount Abu

Q83. Identify the INCORRECT statement about Public Distribution System (PDS) in India.

(a) Those living below poverty line get food grains at subsidised prices.
(b) PDS has been abandoned in the country since 2007.
(c) From 1997, PDS became TPDS for targeted consumers.
(d) PDS was envisaged in 1967 as a price support programme to help consumers.

Q84. Identify the correctly matched pair of the founder and the social/socio-religious organisation founded.

(a) Raja Ram Mohan Ray – Arya Samaj
(b) Rama Krishna Paramahansa – Ramakrishna Mission
(c) Dayanand Saraswati – Brahmo Samaj
(d) Swami Vivekananda – Ramakrishna Mission

Q85. Who is the head of the government of a state in India?

(a) Prime Minister
(b) Governor
(c) Chief Minister
(d) Speaker of the Assembly

Q86. Which part of a plant cell traps sunlight to make sugar?

(a) Leucoplast
(b) Chromoplast
(c) Chloroplast
(d) Starch grain

Q87. The first Education Minister of Independent India was _____.

(a) Abul Kalam Azad
(b) Triguna Sen
(c) Pranab Mukherjee
(d) Indira Gandhi

Q88. Which unit of the computer is considered as the brain of the computer?

(a) Input unit
(b) CPU
(c) Memory unit
(d) Output unit

Q89. In which year did Lord Curzon order the partition of Bengal?

(a) 1945
(b) 1905
(c) 1915
(d) 1930

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Q90. In which state of India does the sunrise first appear?

(a) Arunachal Pradesh
(b) West Bengal
(c) Meghalaya
(d) Odisha

Q91. Sankranti, the harvest festival, is celebrated in the month of Magh of the Hindu calendar and is known by different names in different parts of India. What is it called in Gujarat?

(a) Uttarayan
(b) Pana Sankranti
(c) Lohri
(d) Maghi

Q92. What is the chemical name of the salt found abundantly in seawater?

(a) Sodium Tartrate
(b) Sodium Acetate
(c) Sodium Chloride
(d) Sodium Nitrite

Q93. When did the Prime Minister of India declare the country as 'Open Defecation Free'?

(a) 67^(th) Republic day
(b) 72^(nd) Independence day
(c) Mahatma Gandhi's 150^(th) birth anniversary
(d) Mahatma Gandhi's 70^(th)death anniversary

Q94. Which of the following options correctly defines a firewall (in the context of computing)?

(a) It is a hardware device.
(b) It is a combination of software and hardware-based devices to permit any and every network transmission.
(c) It is a combination of both, software and hardware devices to permit or deny network transmission based on a set of rules.
(d) It is the name of a software.

Q95. Pablo Picasso, Claude Monet, Salvador Dali, Vincent Van Gogh were famous for their_____

(a) social work
(b) artwork
(c) western music
(d) ballet performances

Q96. To scale Mount Everest, mountaineers need to go to _____.

(a) Bhutan
(b) Nepal
(c) Afghanistan
(d) Myanmar

Q97. The pH of a liquid was found to be 7. Which liquid is it likely to be?

(a) Saline
(b) Alkali
(c) Water
(d) Acid

Q98. In which year was the Soil Survey of India established to carry out scientific surveys of soils ?

(a) 1947
(b) 1950
(c) 1962
(d) 1956

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Q99. With which of the following sports/games is Smriti Mandhana associated?

(a) Table Tennis
(b) Hockey
(c) Lawn Tennis
(d) Cricket

Q100. Which of the following is the apex banking institution of India that regulates the monetary policy?

(a) State Bank of India
(b) Bank of India
(c) Reserve Bank of India
(d) Axis Bank

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) are through doing things

The correct answer is 'are through doing things'.

Key Points

• In the given sentence, the use of the plural form of the verb 'are' is incorrect.
• We know that a singular 'subject' will always take a singular 'verb'.
• The singular noun subject 'way' will take the singular verb 'ís'.
• Therefore, the singular verb 'is' should be used in place of the plural verb 'are'.

Correct Sentence: The simplest way to get proper recognition is through doing things with dedication and sincerity.

Additional Information

• Subjects and verbs must agree with one another in number (singular or plural).
• Thus, if a subject is singular, its verb must also be singular; if a subject is plural, its verb must also be plural.

Q2. Answer: (b) Talking about the important point and leaving out the detail

The correct answer is 'Talking about the important point and leaving out the detail'.

Key Points

• Given Idiom: Cut to the chase means to leave out all unnecessary details and deal with the major points.
• Example: In business meetings, Richardson likes to cut to the chase.
• From the given options, the second option is the most appropriate meaning of the given idiom.

Hence, the correct answer is Talking about the important point and leaving out the detail.

Mistake Points

• We may think from the phrase "Cut to the chase" that it is all about something related to chasing anything, but the correct answer is option 2. So be careful while dealing with such questions.

Additional Information

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• This phrase originated in the US film industry. Many silent films used to have a romantic storyline that climaxed in a chase sequence. The phrase was used in a literal sense in directing films around the 1920s. In the figurative or idiomatic was, it was used since the 1940s.

Q3. Answer: (d) Lucid

The correct answer is 'Lucid'.

Key Points

• The word 'Explicit' means so clearly expressed as to leave no doubt about the meaning.

• The synonyms of the word 'Explicit' are "lucid, clear, specified".

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

• The word 'Lucid' means not subject to misinterpretation.

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

WORDS	MEANING
Compatible	(of two things) able to exist or occur together without problems or conflict
Unintelligible	impossible to understand
Equivocal	open to more than one interpretation

Hence, the correct synonym for the given word is Lucid.

Additional Information

• The antonyms of the word 'Explicit' are "indefinite, unspecific, vague".

• Example of 'Explicit' in a sentence:

• He gave me explicit directions on how to get there.

Q4. Answer: (b) Egotist

The correct answer is 'Egotist'.

Key Points

• Let us explore the given options:

• 'Conventionalist' is one who adheres to a convention or treaty.

• 'Egotist' is a person who is excessively conceited or absorbed in themselves; self-seeker.

• 'Nationalist' is a person who strongly identifies with their own nation and vigorously supports its interests.

• 'Evangelist' is a person who seeks to convert others to the Christian faith.

Hence, the correct answer is Egotist.

Q5. Answer: (c) because

The correct answer is 'because'.

Key Points

• Let us explore the given options:-

• The word 'until' means up to (the point in time or the event mentioned).

• The word 'nevertheless' means in spite of that; notwithstanding; all the same.

• The word 'because' means for the reason that; since.

• The word 'unless' means except if (used to introduce the case in which a statement being made is not true or valid).

Hence, the correct answer is Because.

Q6. Answer: (a) within

The correct answer is 'within'.

Key Points

• Let us explore the given options:-

• The word 'within' means inside something.

• The word 'for' means to indicate the reason or because of.

• The word 'on' means physically in contact with and supported by a surface.

• The word 'around' means located or situated on every side.

Hence, the correct answer is Within.

Q7. Answer: (b) powerful

The correct answer is 'powerful'.

Key Points

• Let us explore the given options:-

• The word 'stable' means not likely to give way or overturn; firmly fixed.

• The word 'powerful' means having great power or strength.

• The word 'effortless' means requiring no physical or mental exertion.

• The word 'affective' means relating to moods, feelings, and attitudes.

Hence, the correct answer is Powerful.

Q8. Answer: (d) charge

The correct answer is 'charge'.

Key Points

• Let us explore the given options:-

• The word 'frame' means to formulate (a concept, plan, or system).

• The word 'custody' means the protective care or guardianship of someone or something; imprisonment.

• The word 'structure' means the quality of being organized.

• The word 'charge' means the responsibility for the care or control of someone or something.

Hence, the correct answer is Charge.

Q9. Answer: (b) regular

The correct answer is 'regular'.

Key Points

• Let us explore the given options:-

• The word 'temporary' means lasting for only a limited period of time; not permanent.

• The word 'regular' means doing the same thing often or at uniform intervals.

• The word 'stimulant' means raising levels of physiological or nervous activity in the body.

• The word 'legal' means relating to the law.

Hence, the correct answer is Regular.

Q10. Answer: (d) No improvement

The correct answer is 'No improvement'.

Key Points

• Let us explore the given options

• The phrase 'So far as' means to the extent that.

• The phrase 'So long so' is not the correct phrase.

• The phrase 'As long that' is not the correct phrase.

• The phrase 'As long as' means during the whole time that.

Hence, the correct answer is No Improvement.

Q11. Answer: (b) Transparent

The correct answer is 'Transparent'.

Key Points

• The word 'Cloudy' means (of a liquid) not transparent or clear.

• The antonyms of the word 'Cloudy' are "transparent, clear, purified".

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

• The word 'Transparent' means very thin and easy to see through.

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

WORDS	MEANING
Vague	of uncertain, indefinite, or unclear character or meaning
Indefinite	not clearly expressed or defined; vague
Murky	dark and gloomy, especially due to thick mist

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Hence, the correct answer is Transparent.

Additional Information

• The synonyms of the word 'Cloudy' are "non-transparent, emulsified, milky".

• Example of 'Cloudy' in a sentence:

• Tomorrow's weather will be cloudy with bright periods.

Q12. Answer: (a) Mohan’s wallet might have been misplaced by Sheetal in their rush.

The correct answer is 'Mohan’s wallet might have been misplaced by Sheetal in their rush'.

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

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

• The given sentence is in the active voice and 'Sheetal' is the subject and 'Mohan's wallet' is the object.

• When we convert this sentence into passive voice, the subject 'Sheetal' of the active voice becomes the object, the object 'Mohan's wallet' becomes the subject.

• The passive format '"have + been + V3 (misplaced)" should be used.

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

Hence, the correct passive voice is Mohan’s wallet might have been misplaced by Sheetal in their rush.

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

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

Q13. Answer: (d) CDAB

The correct answer is 'CDAB'.

Key Points

• The sentence 'C' is independent of any other sentences as it is giving general information about the noun "John". Hence, 'C' is the first part.

• The word "job" mentioned in the sentence 'D' refers back to the phrase 'a big well dug' mentioned in the sentence 'C'. Hence, 'D' follows 'C'.

• The phrase "found none" mentioned in the sentence 'A' refers back to the noun "workers" mentioned in the sentence 'D'. Hence, 'A' follows 'D'.

• The sentence 'B' is the concluding sentence. Hence, 'B' is the last sentence.

Paragraph after rearranging the sentences: John wanted to have a big well dug. He searched around for workers who would do the job for him without pay. Though John found none, he was not ready to give in. He continued the search till noon.

Hint

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

Q14. Answer: (a) The storekeeper asked the security whether he had seen the torch he had kept there.

The correct answer is The storekeeper asked the security whether he had seen the torch he had kept there.

Key Points

• The given sentence is a direct speech.
• The basic rules for changing or converting direct speech into indirect speech:
• The commas and inverted commas are removed and 'question mark' is replaced by 'full stop' and the verb 'did' is replaced by 'whether'.
• The second-person pronoun 'you' is replaced by the third-person pronoun 'he'.
• The first-person pronoun 'I' is replaced by the third-person pronoun 'he'
• The past simple tense format 'Subject + V2 (kept) + Object' will be changed into the past perfect tense format 'Subject + had + V3 (kept) + Object'.

Hence, the correct option is The storekeeper asked the security whether he had seen the torch he had kept there.

Additional Information

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

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

Q15. Answer: (c) Euthanasia

The correct answer is 'Euthanasia'.

Key Points

• Let us explore the given options:-
• 'Euphemism' is a mild or indirect word or expression substituted for one considered to be too harsh or blunt when referring to something unpleasant or embarrassing.
• 'Euphorbia' is a plant of a genus that comprises the spurges.
• 'Euthanasia' is the painless killing of a patient suffering from an incurable and painful disease or in an irreversible coma.
• 'Euphoria' is a feeling or state of intense excitement and happiness.

Hence, the correct answer is Euthanasia.

Q16. Answer: (d) argument

The correct answer is 'argument'.

Key Points

• Let us explore the given options:
• The noun 'concession' means the action of conceding or granting something.
• The noun 'compromise' means an agreement or settlement of a dispute.
• The noun 'dispute' means a disagreement or argument.
• The noun 'argument' means the act or process of arguing, reasoning, or discussing.

Complete Sentence: People readily accept any argument of their leaders if supported by the media.

Q17. Answer: (b) Enrage

The correct answer is 'Enrage'.

Key Points

• The word 'Placate' means to lessen the anger or agitation of someone.

• The antonyms of the word 'Placate' are "enrage, anger, infuriate".

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

• The word 'Enrage' means to make someone very angry.

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

WORDS	MEANING
Propitiate	win or regain the favour of (a god, spirit, or person) by doing something that pleases them
Appease	pacify or placate (someone) by acceding to their demands
Conciliate	stop (someone) being angry or discontented; placate

Hence, the correct answer is Enrage.

Additional Information

• The synonyms of the word 'Placate' are "propitiate, appease, conciliate".

• Example of 'Placate' in a sentence:

• His intent is clearly not to placate his critics.

Q18. Answer: (a) A lot of times

The correct answer is 'A lot of times'.

Key Points

• In the underlined segment, the phrase "Lot of " is incorrect.

• In the given sentence, the noun 'times' is a plural uncountable noun.

• We know that the phrase "a lot of" is used with a plural uncountable noun.

• Therefore, the phrase "A lot of" should be used in place of "Lot of".

Correct Sentence: A lot of times she advised him for not being lazy for completing such a tough task.

Q19. Answer: (a) Kindle

The correct answer is 'Kindle'.

Key Points

• The word 'Instigate' means to rouse to strong feeling or action.

• The synonyms of the word 'Instigate' are "kindle, trigger, ignite".

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

• The word 'Kindle' means to arouse or inspire (an emotion or feeling).

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

WORDS	MEANING
Imbibe	absorb or assimilate (ideas or knowledge)
Instill	gradually but firmly establish (an idea or attitude) in a person's mind
Stagnate	cease developing; become inactive or dull

Hence, the correct answer is Kindle.

Additional Information

• The antonyms of the word 'Instigate' are "calm, appease, tranquilize".

• Example of 'Instigate' in a sentence:

• The government will instigate new measures to combat terrorism.

Q20. Answer: (a) Envioronment

The solution is in Hindi. Read it online.

Q21. Answer: (a) have been accused of

The correct answer is 'have been accused of'.

Key Points

• In the given sentence, the use of the plural form of the verb 'have' is incorrect.

• We know that a singular 'subject' will always take a singular 'verb'.

• The singular noun subject 'man' will take the singular verb 'has'.

• Therefore, the singular verb 'has' should be used in place of the plural verb 'have'.

Correct Sentence: The man with a lost eye has been accused of murder of two girls in his neighbourhood.

Additional Information

• Subjects and verbs must agree with one another in number (singular or plural).

• Thus, if a subject is singular, its verb must also be singular; if a subject is plural, its verb must also be plural.

Q22. Answer: (b) Speak with great politeness

The correct answer is 'Speak with great politeness'.

Key Points

• Given Idiom: Keep a civil tongue means to speak kindly and politely.

• Example: Don't talk like that, keep a civil tongue in your head.

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

Hence, the correct answer is Speak with great politeness.

Mistake Points

• We may think from the phrase "Keep a civil tongue" that it is all about something related to the tongue or any argument, but the correct answer is option 2. So be careful while dealing with such questions.

Q23. Answer: (d) by-product

The correct answer is 'by-product'.

Key Points

• Let us explore the given options:

• The noun 'tension' means the mental or emotional strain.

• The noun 'pressure' means a sense of stressful urgency caused by having too many demands on one's time or resources.

• The noun 'burden' means the duty or misfortune that causes worry, hardship, or distress.

• The noun 'by-product' means an incidental or secondary product made in the manufacture or synthesis of something else.

Complete Sentence: Success is the by-product of taking risks, everybody knows.

Q24. Answer: (b) Homoepathy

The correct answer is 'Homoepathy'.

Key Points

• Let us explore the options:-

• 'Allopathy' is the treatment of disease by conventional means, i.e. with drugs having effects opposite to the symptoms.

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

• The correct spelling is 'Homeopathy' which is a system of complementary medicine in which ailments are treated by minute doses of natural substances.

• 'Naturopathy' is a system of alternative medicine based on the theory that diseases can be successfully treated or prevented without the use of drugs.

• 'Telepathy' is the supposed communication of thoughts or ideas by means other than the known senses.

Hence, the correct answer is option 2.

Q25. Answer: (b) CDAB

The correct answer is 'CDAB'.

Key Points

• The sentence 'C' is independent of any other sentences as it is giving general information about the noun "Franco". Hence, 'C' is the first part.

• The word "fishing" mentioned in the sentence 'D' is linked with the word 'fisherman' mentioned in the sentence 'C'. Hence, 'D' follows 'C'.

• The phrase "Franco was young" mentioned in the sentence 'A' is linked with the phrase "as long as he could remember" mentioned in the sentence 'D'. Hence, 'A' follows 'D'.

• The sentence 'B' is the concluding sentence. Hence, 'B' is the last sentence.

Paragraph after rearranging the sentences: Franco was a fisherman who lived on the beach. He had been fishing for as long as he could remember. When Franco was young; he would stay at sea all night. Every morning, he would arrive with a big catch of fresh fish and sell it in the market.

Hint

• Important Rules to Solve the Para Jumbles:

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

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

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

Q26. Answer: (a) [figure]

The option in which the given figure is embedded when rotation is not allowed is shown below:

Hence, option 1 is the correct answer.

Q27. Answer: (b) [figure]

The option figure that can replace the question mark (?) in the following series is shown below:

The figure series is moving in anti-clockwise direction. So, the next figure in the series will be option 3.

Hence, option 2 is the correct answer.

Q28. Answer: (c) 120

Logic = [(Sum of opposite letter's position value) x 2 + (Number of letter in the word x 2)]

SUM = 62

S = Opposite of S is H and the position value of H is = 8

U = Opposite of U is F and the position value of F is = 6

M = Opposite of M is N and the position value of N is = 14

[(8 + 6 + 14) x 2 + (3 x 2)] = [28 x 2 + 6]

[56 + 6] = 62

POT = 66

P = Opposite of P is K and the position value of K is = 11

O = Opposite of O is L and the position value of L is = 12

T = Opposite of T is G and the position value of G is = 7

[(11 + 12 + 7) x 2 + (3 x 2)] = [30 x 2 + 6]

[60 + 6] = 66

Similarly,

HULK = ?

H = Opposite of H is S and the position value of S is = 19

U = Opposite of U is F and the position value of F is = 6

L = Opposite of L is O and the position value of O is = 15

K = Opposite of K is P and the position of P is = 16

[(19 + 6 + 15 + 16) x 2 + (4 x 2)] = [56 x 2 + 8]

[112 + 8] = 120

Hence, HULK is coded as 120.

Q29. Answer: (a) 90

The sum of the ages of 4 friends A, B, C and D is 70 years.

A + B + C + D = 70 years

The total of their ages after 5 years will increase by 20 years as 5 × 4 = 20.

So, total age of 4 friends after 5 years = (70 + 20) years

= 90 years

Hence, 90 is the correct answer.

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Q30. Answer: (a) LMH

The pattern followed here is:

According to the alphabetical positions of the letters,

1) LMH → L + 1 = M; M – 5 = H

2) UVS → U + 1 = V; V – 3 = S

3) HIF → H + 1 = I; I – 3 = F

4) YZW → Y + 1 = Z; Z – 3 = W

Hence, LMH is the odd one out.

Q31. Answer: (b) Paternal aunt

According to given conditions,

So, A is paternal aunt of D.

Hence, Paternal Aunt is the correct answer.

Q32. Answer: (c) 665

The logic is:

2 × 3 + 1 = 7

7 × 3 + 2 = 23

23 × 3 + 3 = 72

72 × 3 + 4 = 220

220 × 3 + 5 = 665

Hence, 665 is the correct answer.

Q33. Answer: (d) Bore

The logic is:

Needle : Sew → Sewing is done using a needle and a thread.

Similarly,

Auger : ? → Boring i.e, making a long deep hole is done using an auger.

Hence, Bore is the correct answer.

Q34. Answer: (c) ÷, ×, =, ×

1) ×, =, -, ÷

Given expression: 16 A 8 A 6 A 3 A 4

After replacing the symbols, we get:

16 × 8 = 6 – 3 ÷ 4

=> 128 = 6 – 0.75

=> 128 ≠ 5.25

2) ÷, ×, =, -

Given expression: 16 A 8 A 6 A 3 A 4

After replacing the symbols, we get:

16 ÷ 8 × 6 = 3 – 4

=> 2 × 6 = -1

=> 12 ≠ - 1

3) ÷, ×, =, ×

Given expression: 16 A 8 A 6 A 3 A 4

After replacing the symbols, we get:

16 ÷ 8 × 6 = 3 × 4

=> 2 × 6 = 12

=> 12 = 12

4) ×, ÷, +, =

Given expression: 16 A 8 A 6 A 3 A 4

After replacing the symbols, we get:

16 × 8 ÷ 6 + 3 = 4

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=> 16 × 1.34 + 3 = 4

=> 21.44 + 3 = 4

=> 24.44 ≠ 4

Hence, ÷, ×, =, × is the correct answer.

Q35. Answer: (a) 18 : 133

The logic is:

50 : 357 → 50 : (50 × 7) + 7

Similarly,

1) 18 : 133 → 18 : (18 × 7) + 7 = 133

2) 15 : 115 → 15 : (15 × 7) + 7 ≠ 115

3) 17 : 136 → 17 : (17 × 7) + 7 ≠ 136

4) 20 : 153 → 20 : (20 × 7) + 7 ≠ 153

Hence, 18 : 133 is the correct answer.

Q36. Answer: (a) Stag

The logic is:

1) Stag → A male deer is called stag.

2) Larva → A larva is the young stage of some insects.

3) Nymph → A nymph is the young stage of some kinds of invertebrates, especially insects.

4) Foal → The young one of a horse is called a foal.

So, all options except 'stag' refers to young ones of animals or insects.

Hence, Stag is the odd one out.

Q37. Answer: (d) D is adjacent to F

The six faces of a dice have been marked with the letters A, B, C, D, E and F.

If A is adjacent to B, C and E, then A is opposite to either D or F.

1) A is adjacent to D → False (It cannot be definitely true as D may be opposite to A)

2) A is adjacent to F → False (It cannot be definitely true as F may be opposite to A)

3) B is adjacent to E → False (It cannot be definitely concluded)

4) D is adjacent to F → True (It is definitely true as all faces except D and F are adjacent to A, so definitely either D and F opposite to A and they are not opposite to each other which implies they are adjacent to each other)

Hence, D is adjacent to F is the correct answer.

Q38. Answer: (c) 48

The number of squares the following figure is shown below:

Hence, 48 is the correct answer.

Q39. Answer: (a) 17

The logic is:

$(4^2 + 6^2) \div 2 = 26$

$(7^2 + 1^2) \div 2 = 25$

Similarly,

$(5^2 + 3^2) \div 2 = ?$

=> (25 + 9) ÷ 2 = ?

=> 34 ÷ 2 = ?

=> 17 = ?

Hence, 17 is the correct answer.

Q40. Answer: (d) 4, 1, 3, 2

Arranging the given words in a logical and meaningful sequence:

4. Galaxy

1. Sun

3. Planet

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2. Asteroid

Galaxy is system of stars that contains our sun and its planets, seen as a bright band in the night sky.

Sun is a star that shines in the sky during the day and that gives the earth heat and light. It is smaller than galaxy but larger than asteroids.

Planet a very large round object in space that moves around the sun or another star.

Asteroids are small, rocky objects that orbit the Sun.

The given objects are arranged according to their sizes.

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

Q41. Answer: (a) zznzmzn

1) zznzmzn

zzmnozn / zzmnozn / zzm

'zzmnozn' is repeating itself in the series.

2) zznznzm

zzmnozn / zznnozm / zzm

The series does not follows any particular pattern.

3) nznnzzn

nzmnozn / znznozn / zzm

The series does not follows any particular pattern.

4) znzmznn

znmzozn / zmznonn / zzm

The series does not follows any particular pattern.

Hence, zznzmzn is the correct answer.

Q42. Answer: (c) 246 : 426

The logic is:

1) 198 : 981

2) 132 : 321

3) 246 : 426

4) 954 : 549

Hence, 246 : 426 is the odd one out.

Q43. Answer: (a) (7, 63, 9)

The logic is:

(12, 96, 8) → (12, 12 × 8, 8)

Similarly,

1) (7, 63, 9) → (7, 7 × 9, 9)

2) (15, 50, 5) → (15, 15 × 5 ≠ 50, 5)

3) (8, 40, 6) → (8, 8 × 6 ≠ 40, 6)

4) (13, 39, 4) → (13, 13 × 4 ≠ 39, 4)

Hence, (7, 63, 9) is the correct answer.

Q44. Answer: (a) Owl : Barn

The logic is:

Cow : Byre → Byre refers to cowshed, a place where cow lives.

Similarly,

Owl : Barn → Barn is a large building on a farm in which crops or animals are kept.

Hence, Owl : Barn is the correct answer.

Q45. Answer: (c) [figure]

The option which is the exact mirror image of the given alphanumeric figure when the mirror is held at the right side is shown below:

Hence, option 3 is the correct answer.

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Q46. Answer: (c) [figure]

The paper when unfolded will appear as shown below:

Hence, option 3 is the correct answer.

Q47. Answer: (c) FQRM

The pattern followed here is:

According to the alphabetical positions of the letters,

Similarly,

Hence, FQRM is the correct answer.

Q48. Answer: (c) All the conclusions follow.

The least possible Venn diagram is:

Conclusions:

I. Some breads are buns. → True (It is definite)

II. Some pastries are buns. → True (It is definite)

III. Some tarts are buns. → True (It is definite)

IV. Some buns are breads. → True (It is definite)

Hence, all the conclusions follow.

Q49. Answer: (a) EPFFLZ

The pattern followed here is:

According to the alphabetical positions of the letters,

Similarly,

Hence, EPFFLZ is the correct answer.

Q50. Answer: (a) [figure]

The Venn diagram that best represent the relationship between Guitar, Instrument, and Thermometer is shown below:

Both Guitar and Thermometer are name of Instruments.

Hence, option 1 is the correct answer.

Q51. Answer: (b) 0.288

Given:

Cos x = 3/5

Formula used:

Sin x = perpendicular/hypotenuse,

Cos x = base/hypotenuse,

By Pythagoras theorem,

Hypotenuse2 = Perpendicular2 + Base2

Calculation:

According to the question:

Cos x = 3/5

Base = 3

=> Hypotenuse = 5

Hypotenuse2 = Perpendicular2 + Base2

=> 52 = 32 + Perpendicular2

=> 25 = 9 + Perpendicular2

=> 25 – 9 = Perpendicular2

=> Perpendicular2 = 16

=> Perpendicular = √16

=> Perpendicular2 = √(4 × 4)

=> Perpendicular = 4

Now,

(Sin x – Sin^3 x)

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=> [(perpendicular/hypotenuse) – (perpendicular/hypotenuse)^3]
=> [4/5 – (4/5)^3]
=> [4/5 – 64/125]
=> (100 – 64)/125
=> 36/125 = 0.288
Therefore The answer is 0.288.

Q52. Answer: (d) Books; Month 3

Given:

	Month1	Month2	Month3
Pens	5.6	4.9	4.6
Pencils	6.7	7.3	6.2
Books	4.5	5.7	6.3

Calculation:
Total Pens = 5.6 + 4.9 + 4.6 = 15.1
From table, we can see in 1 Month, question has highest sale of Pens
Then, (Month 1, % pen) = (5.6/15.1) × 100
=> 0.3708 × 100
=> 37.08%
Total Pencil = 6.7 + 7.3 + 6.2 = 20.2
From table, we can see in 2 Month, question has highest sale of Pencil
Then, (Month 2, % pencil) = (7.3/20.2) × 100
=> 36.13%
Total Books = 4.5 + 5.7 + 6.3 = 16.5
From table, we can see in 3 month, question has highest sale of Books
Then, (Month 3, % book) = (6.3/16.5) × 100
=> 420/11 = 38.181%
Therefore The highest percentage of sales are Books and Month 3.

Q53. Answer: (a) Month 2

Given:

	Month 1	Month 2	Month 3
Pens	5.6	4.9	4.6
Pencils	6.7	7.3	6.2
Books	4.5	5.7	6.3

Calculation:
Month 1 = Pens + Pencils + Books
=> 5.6 + 6.7 + 4.5 = 16.8
Month 2 = Pens + Pencils + Books
=> 4.9 + 7.3 + 5.7 = 17.9
Month 3 = Pens + Pencils + Books
=> 4.6 + 6.2 + 6.3 = 17.1
Therefore Month 2 has the highest sales.

Q54. Answer: (b) 32 cm

Given:
The perimeter of an isosceles triangle = 90 cm.
And base = 26 cm
Concept used:

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An isosceles triangle two angles will also be the same in front of the equal sides.
Formula used:
P = (2a + b)
Where, p = perimeter
a = side and b = another side
Calculation:
Let the length of the equal sides be x
P = (2a + b)
=> 90 = 2x + 26
=> (90 – 26) = 2x
=> 64 = 2x
=> x = 64/2 = 32
Therefore The length of the equal sides is 32 cm.

Q55. Answer: (d) 60°

Given:
The shadow of a tree is 1/(√ 3) times the length of tree
Formula used:
Tan θ = Perpendicular/Base
Calculation:
Let the length of tree be x meter
Then, the height of a shadow = (1/√3) × x = x/√3 meter
In Δ ABC,
tanθ = x/(1/√3 × x) = √3
=> tanθ = √3
=> tanθ = tan60°
=> θ = 60°
Therefore The angle of elevation is 60°.

Q56. Answer: (a) 0.2916

Given:
sinθ = 0.96
Formula used:
sinθ = perpendicular/hypotenuse,
cotθ = base/perpendicular
By Pythagoras theorem,
Hypotenuse2 = Perpendicular2 + Base2
Calculation:
According to the question:
sinθ = 0.96 = 96/100 = 24/25
Perpendicular = 24
=> Hypotenuse = 25
Hypotenuse2 = Perpendicular2 + Base2
=> 252 = 242 + Base2
=> 625 = 576 + Base2
=> 625 – 576 = Base2
=> Base2 = 49
=> Base = √49
=> Base = √(7 × 7) = 7
Now, cotθ = base/perpendicular
=> 7/24 = 0.2916
Therefore The value of cotθ = 0.2916.

Q57. Answer: (a) a = b

Given:

2(a2 + b2) = (a + b)2

Formula used:

(a + b)2 = (a2 + b2 + 2ab)

Calculation:

According to the question:

2(a2 + b2) = (a + b)2

=> 2(a2 + b2) = (a2 + b2 + 2ab)

=> 2a² + 2b2 = (a2 + b2 + 2ab)

=> 2a2 + 2b2 – a2 – b2 – 2ab = 0

=> a2 + b2 – 2ab = 0

=> (a – b)² = 0

=> a – b = 0

=> a = b

Therefore The answer is a = b.

Q58. Answer: (c) Rs, 4,000

Given:

The average salary of a person for the months of February, March, April, and May is Rs. 12,000

The month's March, April, May June is Rs. 13,000

The month of June is Rs. 8,000

Formula used:

Average = sum of observation/number of observation

Calculation:

The average salary of a person for the months of February, March, April, and May = 12000

February + March + April + May = (12000) × 4

February + March + April + May = 48000 ----(1)

Sum of the month March, April, May and June = (13000) × 4

March + April + May + June = 52000 ----(2)

Subtract from equation (1) and equation (2):-

February – June = - 4000

=> June salary = 8000

=> February = - 4000 + 8000

February = 4000

Therefore His salary for the month of February is 4000.

Q59. Answer: (c) 81 km/h

Given:

Time is taken by the train = 30 min

Speed of the train = 54 km/h

Formula used:

Distance = Speed × Time

Speed = Distance/Time

Calculation:

Total distance covered by the train = (30/60) × 54

=> 1/2 × 54

=> 27

=> Distance = 27 km

According to the question,

The distance has to be covered by the train in 20 minutes

20 min in one hour = 20/60

=> 1/3
So,
Speed = 27/1/3
=> 27 × 3
=> 81
=> Speed = 81 km/h
Therefore The train must run 81 km/h
As we all know Time prop. to 1/Speed
So, Ratio of Time = 3 : 2
=> The ratio of speed = 2 : 3
=> 2 → 54 km/h
=> 1 → 27 km/h
=> 3 → 81 km/h
Therefore The train must run 81 km/h.

Q60. Answer: (a) 38.63 m²

Given:
Perimeter = 30 m
Concept used:
Perimeter of an isosceles triangle = 2x + y
Area of an isosceles right angle triangle = 1/2 × x²
x = equal sides of an isosceles triangle
Calculation:
In an isosceles right angled triangle, the two sides on the right angle are equal
Let the equal sides be a
Hence, hypotenuse of the isosceles right angled triangle = √ a² + a² = √ 2 a
a + a + √2a = 30
=> 2a + √2a = 30
=> a(2 + √2) = 30
=> a = 30/(2 + √2)
=> a = (30(2 - √2))/(2 + √2)(2 - √2)
=> a = (30(2 - √2))/(2² - (√2)²)
=> a = (30(2 - √2))/(4 - 2)
=> a = (30(2 - √2))/2
=> a = 15(2 - √2)
1/2 × (15(2 – √2))²
=> 1/2 × 225(4 + 2 – 4√2)
=> 112.5(6 – 5.6568) [√2 = 1.4142]
=> 112.5(0.3432)
=> 38.626 ≈ 38.63 m
Therefore Area of the triangle is 38.63 m (Approximate)

Q61. Answer: (a) 3745932

Concept used:
Divisibility rule of 3
Sum of digits must be divisible by 3
Calculation:
1) 3 + 7 + 4 + 5 + 9 + 3 + 2 = 33
2) 4 + 5 + 3 + 9 + 7 + 6 + 3 = 37
3) 2 + 3 + 6 + 2 + 7 + 3 + 5 = 28
4) 6 + 3 + 4 + 2 + 5 + 8 + 9 = 37
Therefore Option 1 is only divisible by 3

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Q62. Answer: (d) 32

Given:

x3 + y3 = 16

x + y = 4

Formula used:

(x + y)[(x + y)2 – 3xy]

x4 + y4 = (x2 + y2)2 – 2x2y2

Calculation:

(x + y)[(x + y)² – 3xy] = 16

=> 4[16 – 3xy] = 16

=> (64 – 12xy) = 16

=> 64 – 16 = 12xy

=> 48 = 12xy

=> xy = 4

x^4 + y^4 = (x² + y²)² – 2x²y²

=> [(x + y)² – 2xy]² – 2x²y²

=> [(4)2 – 8]2 – 2 × 16

=> [16 – 8]2 – 32

=> 82 – 32

=> 64 – 32

=> 32

Therefore Required value is 32

Only possibility when we put x, y = 2

x + y = 4

x³ + y³= 8 + 8 = 16

2^4 + 2^4 = 16 + 16

=> 32

Therefore Required value is 32

Q63. Answer: (c) 5033

Calculation:

Total sales of Pens in Month 1 = 5600

Total sales of Pens in Month 2 = 4900

Total sales of Pens in Month 3 = 4600

Total sales of Pens in 3 months = (5600 + 4900 + 4600)

=> 15100

Average sale of 3 months = 15100/3

=> 5033.33 ≈ 5033

Therefore The average number of pens sold in the 3 months is 5033

Q64. Answer: (a) 1/2

Given:

P can do a work in 10 days

Q can do the work in 15 days

Calculation:

Amount of work P can do in 1 day = 1/10

Amount of work Q can do in 1 day = 1/15

Amount of work P and Q can do in 1 day = 1/10 + 1/15 = 5/30

Amount of work P and Q can do in 3 day = 15/30 = 1/2

Fraction of work left = 1 – 1/2 = 1/2

Therefore 1/2 of the work is left

LCM of 10 and 15 is 30

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Efficiency of P = 30/10 = 3
Efficiency of P = 30/15 = 2
Total work done by P and Q in 3 days = [(3 + 2) × 3]
=> 15
Remaining work = 30 – 15 = 15
Fraction of work left = 15/30 = 1/2
Therefore 1/2 of the work is left

Q65. Answer: (d) Pencils

Calculation:
Total sales of pens in 3 months = (5600 + 4900 + 4600)
=> 15100
Total sales of pencils in 3 months = (6700 + 7300 + 6200)
=> 20200
Total sales of books in 3 months = (4500 + 5700 + 6300)
=> 16500
Therefore Pencils have the highest sales in all 3 months which is 20200

Q66. Answer: (b) 20 m

Given:
Area of the rectangular plot is 2000 m^2
Calculation:
Let breath of the rectangle be x m
So, length = 5x m
5x m × x m = 2000 m^2
=> $5x^2$ m^2 = 2000 m^2
=> x^2 = 400
=> x = 20
=> Breath = 20 m
Therefore The breadth of the rectangular plot is 20 m

Q67. Answer: (d) 358400

Given:
Total number of vote = 640000
Invalid vote = 20%
X got overall valid vote = 70%
Concept used:
Percentage base question
If a% of b so = b × (a/100)
Calculation:
We will find the invalid vote
20% of 640000
=> 640000 × (20/100)
=> 12800
Valid vote = 640000 – 128000 = 512000
Candidate X got 70% of the overall valid vote
=> 512000 × (70/100)
=> 358400
Therefore The number of valid votes polled in favor of the candidate is 358400.

Q68. Answer: (c) 42.6%

Given:
The discount series of 25%, 15% and 10%

Concept used:
If discount is a% for price P
So, discount = P × (100 – a)/100
Total discount = P - discount
Calculation:
Let price be 100
25% discount
=> 100 × [(100 – 25)/100]
=> 100 × (75/100)
=> 75
15% discount on 75
=> 75 × [(100 – 15)/100]
=> 75 × (85/100)
=> 63.75
10% discount of 63.75
=> 63.75 × [(100 – 10)/100]
=> 63.75 × (90/100)
=> 57.4
So, discount 100 – 57.4 = 42.6%
Therefore Equivalent discount is 42.6.
Using this formula
Equivalent discount of a and b = a + b - (ab/100)
A= 25%, b = 15%
=> 25 + 15 – [(25 × 15)/100]
=> 40 – 3.75
=> 36.25%
Again a = 36.25, b = 10
=> 36.25 + 10 – [(36.25 × 10)/100]
=> 46.25 – 3.625
=> 42.6%
Therefore Equivalent discount is 42.6.

Q69. Answer: (d) 25 : 32

Given:
Two number are respectively 25% and 60% more than a third number
Concept used:
Use percentage method
Calculation:
Let the third number be 100
First number = 100 + 25 = 125
Second number = 100 + 60 = 160
So, ratio of first and second number
=> 125 : 160
=> 25 : 32
Therefore The ratio of the two number is 25 : 32

Q70. Answer: (d) 4

Given:
21^(√x)+ 20^(√x) = 29^(√x)
Formula used:
Using phythagorus theorem
$a^2 + b^2 = c^2$

Calculation:
21^(√x) + 20^(√x) = 29^(√x)
Compare the whole equation $a^2 + b^2 = c^2$
So √x = 2
x = 4
$21^2 + 20^2 = 29^2$
441 + 400 = 841
841 = 841
So x = 4 satisfy this equation
Therefore The value of x is 4.

Q71. Answer: (c) 14.75

Given:
A tradesman marks his products 35% above the cost price and allows his customers 15% reduction on their bills
Formula used:
Selling Price = Mark price - discount
Profit = selling price (S.P.) – Discount
Calculation:
Let Cost Price = 100
Mark Price = 100 + (100 × 35)/100 = 100 + 35 = 135
Discount is 15%
=> (15/100) × 135
=> 20.25%
Selling Price = MP - discount
=> 135 - 20.25
=> 114.75%
Profit = 114.75 - 100 = 14.75%
Therefore Percentage of profit is 14.75%

Q72. Answer: (c) Rs. 93.33

Given:
P1 = 7000, T1 = 3 year, R1 = 5%
P1 = 7000, T2 = 3 year, R2 = 6(1/3)%
Formula used:
Simple interest = (Principal amount × rate of interest × time)/100
Calculation:
S.I.1 = (P1 × R1 × T1)/100
=> (7000 × 3 × 5)/100
=> 1050
S.I. for one year = 1050/3
=> 350
S.I.2 = (P1 × R2 × T2)/10
=> [7000 × (19/3) × 3]/100
=> 1330
S.I.2 for one year = 1330/3
=> 443.33
Gain for one year = 443.33 – 350
=> 93.33
Therefore His gain in the transaction per year is 93.33

Q73. Answer: (d) 12.14 cm

Shortcut Trick
For concentric circles, the chord of the larger circle which is tangent to the smaller circle is bisected at the point of contact.

Half chord length AB = √(R² − r²)

AB = √(7.5² − 4.4²) = √(56.25 − 19.36) = √36.89 ≈ 6.07 cm

Total chord AC = 2 × AB = 2 × 6.07 = 12.14 cm

Therefore The correct answer is 12.14 cm.

Alternate Method

Given: Radius of outer circle (R) = 7.5 cm, Radius of inner circle (r) = 4.4 cm.

Formula Used: In a circle, the radius is perpendicular to the tangent at the point of contact (Pythagoras Theorem: Hypotenuse² = Base² + Perpendicular²).

=> In right-angled triangle PBA, PA is the radius of the larger circle (7.5 cm) and PB is the radius of the smaller circle (4.4 cm).

=> AB² = PA² − PB²

=> AB² = 7.5² − 4.4² = 56.25 − 19.36 = 36.89

=> AB = √36.89 ≈ 6.0737 cm

=> Since the perpendicular from the centre to a chord bisects the chord, AC = 2 × AB

=> AC = 2 × 6.0737 = 12.1474 cm

Therefore The correct answer is 12.14 cm.

Additional Information

Concentric Circles

Circles having the same centre but different radii are called concentric circles.

Tangent Property

A tangent at any point of a circle is perpendicular to the radius through the point of contact.

Chord Bisection

The perpendicular drawn from the centre of a circle to a chord always bisects the chord into two equal halves.

Q74. Answer: (d) n × n

Given:

1 + 3 + 5 + 7 + _____(2n - 1)

Formula used:

S_n = (n/2) × [2a + (n – 1)d] = (n/2)[a + l]

Calculation:

First term(a) = 1,

Common difference(d) = 3 – 1 = 5 – 3 = 7 – 5 = 2

last term(l) = 2n – 1

Number of terms = n

Sum of terms = (n/2)[2a + (n – 1)d] = (n/2)[a + l]

=> (n/2) × (1 + 2n – 1)

=> (n/2) × (2n)

=> n × n

Therefore The value of 1 + 3 + 5 + 7 + _____(2n - 1) is n × n

Shortcut Trick

Put n = 2

Sum of 2 term = 1 + 3 = 4

Check the option

1. (2n – 1)(2n – 1)

=> [(2 × 2) – 1][(2 × 2) – 1]

=> 3 × 3

=> 9

2. n/2 = 2/2 = 1

3. n(n + 1)/2

=> 2 × 3/2

=> 3

4. n × n

=> 2 × 2

=> 4

Therefore Option (4) is right.

Hint

Sum of n odd number = n^2

Q75. Answer: (c) 24.63 m

Given:

The diameter of the two small circular grounds = 42 m and 26 m respectively

Formula Used:

Area of the circle = πR^2

Calculation:

The radius of the 1st circle R1 = 42/2 = 21 m

The radius of the 2nd circle R2 = 26/2 = 13 m

Total Area of the two small ground = $\pi(R^2 1 + R^2 2) = \pi (21^2 + 13^2) = \pi \times (441 + 169)$

Total area = 610π m2

New ground area = 610π

$610\pi = \pi R^2$

=> R2 = 610

=> R = $\sqrt{610}$

=> R ≈ 24.63 m

Therefore The radius of the new ground if the new ground has the same area as two small grounds is 24.63 m.

Q76. Answer: (b) Meghna Gulzar

The correct answer is Meghna Gulzar.

Key Points

• Chhapaak is a 2020 Indian a Hindi-language drama film directed by Meghna Gulzar and produced by Deepika Padukone and Meghna Gulzar in collaboration with Fox Star Studios. Deepika Padukone played the role of Lakshmi Agarwal in this film.

• Meghna Gulzar got the Film Fare Award for Best Director in 2019.

• The Government of Rajasthan has made the film 'Chhapak' tax-free in the state based on the story Laxmi Agarwal (Acid Attack Survivor).

• As per the order issued by the Finance Department on January 10, 2020, the film has been exempted from SGST. This order will be effective for six months.

Q77. Answer: (d) Russia

The correct answer is Russia.

Key Points

Kudankulam Nuclear Power Plant:

• It is the largest nuclear power plant in India.

• It is situated in the Tirunelveli district of Tamil Nadu.

• It was built in collaboration with Atomstroyexport, the Russian state company, and Nuclear Power Corporation of India Limited (NPCIL).

• It has a capacity of 6,000 MW of electricity.

Important Points

Nuclear Power Plant	State
Kudankulam Nuclear Power Plant	Tamil Nadu
Tarapur Nuclear Reactor	Maharashtra
Rajasthan Atomic Power Plant	Rajasthan
Kaiga Atomic Power Plant	Karnataka
Kalapakkam Nuclear Power Plant	Tamil Nadu
Narora Nuclear Reactor	Uttar Pradesh

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Q78. Answer: (d) Virat Kohli

The correct answer is Virat Kohli.

Virat Kohli won ICC Cricketer of the Year', 'ICC Test Player of the Year' and 'ICC ODI Player of the Year' in 2018.

Key Points

• In 2018 Virat Kohli won:-

• ICC Cricketer of the Year

• ICC Test Player of the Year

• ICC ODI Player of the Year

• Virat Kohli is an Indian cricketer and the current captain of the India national team.

• A right-handed top-order batsman, Kohli is regarded as one of the best contemporary batsmen in the world.

• He plays for Royal Challengers Bangalore in the Indian Premier League (IPL) and has been the team's captain since 2013.

Important Points

• Kohli was appointed the vice-captain of the ODI team in 2012 and handed over the Test captaincy following Mahendra Singh Dhoni's Test retirement in 2014.

• In early 2017, he became the limited-overs captain as well after Dhoni stepped down from the position.

• In ODIs, Kohli has the second-highest number of centuries and the highest number of centuries in run-chases in the world.

• He holds the world record for being the fastest batsman to 8,000, 9,000, 10,000, and 11,000 runs in ODI cricket, reaching the milestones in 175, 194, 205, and 222 innings respectively.

Q79. Answer: (b) Chess

The correct answer is Chess.

Through a smart movement using a pawn, Himal Gusain outshone grandmaster NR Visakh. He is talking about Chess.

Key Points

• The pawn is the least powerful chess piece, but it can be promoted into any other chess piece (except for a king). As Philidor once said, "Pawns are the soul of chess!"

• Some important moves in chess are:-

• An Amazing Bishop Endgame.

• Bura's Desperado Sacrifice.

• Geller's Rook And Pawn Endgame.

• Vladimirov's Thunderbolt.

• Marshall's Legendary Move.

• Meier's Spectacular Sacrifice.

• Shirov's Jaw-Dropping Bishop Sacrifice.

Q80. Answer: (a) Kelvin

The correct answer is Kelvin.

Key Points

• The SI unit of thermodynamic temperature is Kelvin.

• Thermodynamic temperature is an absolute measure of the average total internal energy of an object —namely, its kinetic energy (energy of motion) plus contributions from other factors.

• It applies to the average energy of a collection of atoms or subatomic particles—for example, the atoms in a block of iron, or the air molecules in a room.

• It is expressed in a number of kelvins above absolute zero, the theoretical point at which nothing can get colder.

Q81. Answer: (b) Mohandas Karamchand Gandhi

The correct answer is Mohandas Karamchand Gandhi.

Mohandas Karamchand Gandhi is known as the 'Father of the Nation' in India.

Key Points

• Generally, the first President of an independent country is given such a title. Subhash Chandra Bose chose such a title because he had seen the role of Gandhiji in building India as an independent nation.

• Netaji Subhash Chandra Bose was the first person to call Mahatma Gandhi as a Father of Nation' from Azad Hind Radio on July 6th, 1944.

• He gave the famous slogan, "Jai Hind" from Free India Center, Germany.

• He formed the 'Freedom Army' which consisted of all prisoners of war captured by Germany with the help of Hitler.

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• Mohandas Karamchand Gandhi:-
• He was a Barrister or Lawyer by profession.
• In 1888, MK Gandhi went to London, England, to study law.
• Apart from completing legal education from England, he had to learn Indian law in Bombay.
• During his first stay in London, from 1888 to 1891, he joined the executive committee of the London Vegetarian Society.

Additional Information

• Bhim Rao Ambedkar:-
• He is considered as the Father of the Indian Constitution.
• He was the chief architect of the Constitution of India.
• He was appointed Chairman of the Constitution Drafting Committee in 1947.
• He was independent of India's first Minister of Law and Justice.
• Swami Vivekananda:-
• He was born in 1863.
• He founded the Ramakrishna Mission in May 1897.
• He died in 1902 at Belur Math in West Bengal.
• He was influenced by Ramakrishna Paramahansa who was also his Guru.
• Mahadev Govind Ranade:-
• He was one of India’s Citpavan Brahmans of Maharashtra who was a judge of the High Court of Bombay,
• He is a noted historian and an active participant in social and economic reform movements.

Q82. Answer: (d) Mount Abu

The correct answer is Mount Abu.

Dilwara temples of Jainism located at Mount Abu.

Key Points

• Dilwara Jain Temples is one of the finest Jain temples known in world for its extraordinary architecture and marvelous marble stone carvings and are located at Mount Abu.
• These temples were built between the 11^(th)to 13^(th) Centuries AD.
• All this was done at a time when no transport or roads were available at a height of 1200+ Mtrs in Mount Abu.
• Huge blocks of marble stones were transported on elephant backs from the Arasoori Hills at Ambaji to this remote hilly region of Mount Abu.
• Dilwara temples are also a popular Jain pilgrimage attraction.

Important Points

• Dilwara Temple complex consists of five major sections or temples devoted to five Jain Tirthankaras (Saints):
• Shri Mahaveer Swami Temple
• Shri AdiNath Temple or Vimal Vasahi Temple
• Shri ParshavNath Temple or Khartar Vasahi Temple
• Shri Rishabdaoji Temple or Peethalhar Temple
• Shri NemiNathJi Temple or Luna Vasahi Temple

Q83. Answer: (b) PDS has been abandoned in the country since 2007.

PDS has been abandoned in the country since 2007 is an incorrect statement.

Key Points

• Public distribution system (PDS) is an Indian food Security System established under the Ministry of Consumer Affairs, Food, and Public Distribution.
• It evolved as a system of management of scarcity through the distribution of food grains at affordable prices.
• It is operated under the joint responsibility of the Central and the State Governments.
• Under the PDS, presently the commodities namely wheat, rice, sugar, and kerosene are being allocated to the States/UTs for distribution.
• Some states/UTs also distribute additional items of mass consumption through the PDS outlets such as pulses, edible oils, iodized salt, spices, etc.
• From the 1970s, it had evolved into a universal scheme for the distribution of subsidized food.

Additional Information

• Revamped Public Distribution System (RPDS) was launched in June 1992 with a view to strengthen and streamline the PDS as

well as to improve its reach in the far-flung, hilly, remote, and inaccessible areas where a substantial section of the underprivileged classes lives.

• In June 1997, the Government of India launched the Targeted Public Distribution System (TPDS) with a focus on the poor.

• Under TPDS, beneficiaries were divided into two categories:

• Households below the poverty line or BPL

• Households above the poverty line or APL.

Q84. Answer: (d) Swami Vivekananda – Ramakrishna Mission

The correct answer is Swami Vivekananda – Ramakrishna Mission.

Key Points

• Ramakrishna Mission is an Indian socio-religious organization founded by Swami Vivekanand on 1 May 1897.

• It was established in order to propagate the ideals of Ramakrishna Paramahasa.

• It conducts research in the field of health care, elementary and higher education, tribal welfare, and culture.

Additional Information

• Arya Samaj:-

• It is the society of Nobles vigorous reform movement of modern Hinduism, founded in 1875 by Dayananda Sarasvati.

• Aim:- To reestablish the Vedas, the earliest Hindu scriptures, as revealed truth.

• The Arya Samaj opposes worship of murtis (images), animal sacrifice, shraddha (rituals on behalf of ancestors), basing caste upon birth rather than upon merit, untouchability, child marriage, pilgrimages, priestly craft, and temple offerings.

• It has worked to further female education and inter caste marriage, has built missions, orphanages, and homes for widows, has established a network of schools and colleges; and has undertaken famine relief and medical work.

• From its beginning, it was an important factor in the growth of Indian nationalism.

• Brahmo Samaj:-

• It is an atheistic movement within Hinduism, founded in Kolkata in 1828 by Ram Mohan Roy.

• It does not accept the authority of the Vedas, has no faith in avatars (incarnations), and does not insist on belief in karma (causal effects of past deeds) or samsara (the process of death and rebirth).

• It discards Hindu rituals and denounces polytheism, image worship, and the caste system.

Q85. Answer: (b) Governor

The correct answer is Governor.

The Head of the government of a state in India is Governor.

Key Points

• Governors are responsible for implementing state laws and overseeing the operation of the state executive branch.

• As state leaders, governors advance and pursue new and revised policies and programs using a variety of tools, among them executive orders, executive budgets, and legislative proposals and vetoes.

Important Points

• Indian constitution discusses the role of governor in its VI Part from the article(152-165) some of them are:

• There shall be a Governor for each state (Articles 153).

• The executive power of the State shall be vested in the Governor and shall be exercised by him either directly or through officers subordinate to him in accordance with the Constitution of India (Article 154).

• The Governor of a State shall be appointed by the President by warrant under his hand and seal (Article 155).

• There shall be Council of Ministers with the Chief Minister at the head to aid and advise the Governor in the exercise of his functions except in so far as he is by or under the Constitution required to exercise his functions or any of them in his discretion. (Article 163).

• The Governor appoints Chief Minister and other Ministers. (Article 164).

• The Governor appoints the Advocate General for the State. (Article 165).

Additional Information

• Article 74(1) of the Constitution provides

• that there shall be a Council of Ministers with the Prime Minister as its head to aid and advice the President, who shall exercise his/her functions in accordance to the advice.

• As a real executive authority, the Chief Minister is called the head of the government. He is assisted by his council of ministers who are a part of the state executive along with Governor and Advocate-General of State.

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Q86. Answer: (c) Chloroplast

The correct answer is Chloroplast.

The chloroplast of the plant cell traps sunlight to make sugar.

Key Points

• The chloroplast is an organelle that contains the photosynthetic pigment chlorophyll that captures sunlight and converts it into useful energy, thereby, releasing oxygen from water.

• Chloroplasts are found in all green plants and algae.

• They are the food producers of plants.

• These are found in the guard cells located in the leaves of the plants.

• They contain a high concentration of chlorophyll that traps sunlight. This cell organelle is not present in animal cells.

Additional Information

• Plant cells contain structures known as plastids which are absent in animal cells. These plastids are double-membrane cell organelles which play a primary role in the manufacturing and storing of food. There are three types of plastids –

• Chromoplasts-

• They are the colour plastids, found in all flowers, fruits and are mainly responsible for their distinctive colours.

• Chloroplasts-

• They are green coloured plastids, which comprises green-coloured pigments within the plant cell and are called the chlorophyll.

• Leucoplasts-

• They are colourless plastids and are mainly used for the storage of starch, lipids, and proteins within the plant cell.

• Starch grains:-

• They are tiny structures made by most plants as products of photosynthesis.

• Essentially, a starch grain is a well-packed storehouse of glucose sugar units.

• Many plants store starch grains in underground organs such as roots, bulbs, tubers, and rhizomes, as well as their seeds and stems.

Q87. Answer: (a) Abul Kalam Azad

The correct answer is Abul Kalam Azad.

• The first Education Minister of Independent India was Abul Kalam Azad.

Key Points

• India's first Education Minister, Maulana Abul Kalam Azad is popularly known as Maulana Azad.

• He was the visionary behind India's premier institutes - the IITs, IISc, and School of Architecture and Planning.

• He was also responsible for setting up apex bodies such as AICTE and UGC.

• Not just primary education and literacy but, Azad was also instrumental in the promotion of culture and literature through education.

• Most of the cultural and literary academies we see today such as Lalit Kala Academy, Sahitya Academy, etc. were established by him.

• He also stressed vocational training and diversification of secondary education.

Additional Information

• Triguna Sen:-

• He was the Union Minister for education in the Government of India.

• He got Padma Bhushan in 1965.

• Pranab Kumar Mukherjee:-

• He was an Indian statesman who serves as the 13th President of India from 2012 until 2017.

• He was also a senior leader in the Indian National Congress and occupied several ministerial portfolios in the Government of India.

• Indira Priyadarshini Gandhi:-

• She was an Indian politician and a central figure of the Indian National Congress.

• She was the first and, to date, only female Prime Minister of India. Indira Gandhi was the daughter of Jawaharlal Nehru, the first prime minister of India.

Q88. Answer: (b) CPU

The correct answer is CPU.

CPU is considered the brain of the computer.

Key Points

• Central Processing Unit (CPU) consists of the following features −

• CPU is considered the brain of the computer.

• CPU performs all types of data processing operations.

• It stores data, intermediate results, and instructions (program).

• It controls the operation of all parts of the computer.

Additional Information

• Memory unit:-

• It is the amount of data that can be stored in the storage unit.

• This storage capacity is expressed in terms of Bytes.

• Input Unit:-

• This unit contains devices with the help of which we enter data into the computer.

• This unit creates a link between the user and the computer.

• They translate the information into a form understandable by the computer.

• Output unit:-

• It consists of devices with the help of which we get the information from the computer.

• This unit is a link between the computer and the users.

• They translate the computer's output into a form understandable by the users.

Q89. Answer: (b) 1905

The correct answer is 1905.

• Lord Curzon order the partition of Bengal in 1905.

Key Points

• Partition of Bengal was done in 1905, and division of it was carried out by the British viceroy in India, Lord Curzon.

• Despite strong Indian nationalist opposition. It began a transformation of the Indian National Congress from a middle-class pressure group into a nationwide mass movement.

• Bengal, Bihar, and Orissa had formed a single province of British India since 1765. By 1900 the province had grown too large to handle under a single administration.

• East Bengal, because of isolation and poor communications, had been neglected in favor of West Bengal and Bihar.

• Curzon chose one of several schemes for partition:

• To unite Assam, which had been a part of the province until 1874, with 15 districts of east Bengal and thus form a new province with a population of 31 million. The capital was Dacca (now Dhaka, Bangladesh), and the people were mainly Muslim.

• The Hindus of West Bengal, who controlled most of Bengal’s commerce and professional and rural life, complained that the Bengali nation would be split in two, making them a minority in a province including the whole of Bihar and Orissa.

• They regarded the partition as an attempt to strangle nationalism in Bengal, where it was more developed than elsewhere. Agitation against the partition included mass meetings, rural unrest, and a swadeshi (native) movement to boycott the import of British goods.

• The partition was carried through despite the agitation, and the extreme opposition went underground to form a terrorist movement.

Important Points

• Lord Curzon (1899-1905):

• He passed the Calcutta Corporation Act in the year 1899.

• According to the act, it increased the number of official members and decreased the strength of elected official members.

• As official members were mostly British Subjects it caused resentment in the Indian public.

• He was the Viceroy who passed a law for protecting Ancient Indian monuments.

Q90. Answer: (a) Arunachal Pradesh

The correct answer is Arunachal Pradesh.

Sunrise first appears in Arunachal Pradesh.

Key Points

• A small town of Dong in the Anjaw district of Arunachal Pradesh first witnesses the sunrise in India.

• At 1,240 meters above sea-level, Dong is located at the confluence of the rivers Lohit, a tributary of the Brahmaputra, and Sati, and is strategically sandwiched between China and Myanmar.

Additional Information

• However, The East Cape, in the north of Gisborne on the North Island (New Zealand), is the first place on Earth to witness the sunrise each day.

Q91. Answer: (a) Uttarayan

The correct answer is Uttarayan.

Sankranti, the harvest festival, is celebrated in the month of Magh is called Uttarayan in Gujarat.

Key Points

• Makar Sankranti is celebrated across India in various ways and the cultural significance of this festival varies according to different regions of the country.

• It is known that Makar Sankranti is the first Indian festival that falls in the New Year.

• It is one of the major harvest festivals that is celebrated on January 14, of every year.

• It is considered to be an important festival of the Hindu and is celebrated everywhere in the country in various cultural forms and different names.

• Every region celebrates the festival in numerous ways according to the geographical area, culture, and traditions.

• Many people release a lantern into the air as a mark of the upcoming season, also called the Uttaryan celebration in Gujarat.

• There is no better place to celebrate this festival than the state of Gujarat.

• This state is located in the western regions of the country comes alive during the festival of Makar Sankranti, which symbolizes the end of the cold season and the beginning of the longer days.

Important Points

• The festival is celebrated for two days:-

• The first day is called 'Uttarayan'.

• The next day is called 'Vasi-Uttarayan'. The people of Gujarat celebrate this glorious festival with Kites, 'Undhiyu' and 'Chikkis'.

Q92. Answer: (c) Sodium Chloride

The correct answer is Sodium Chloride.

The chemical name of the salt found abundantly in seawater is Sodium Chloride.

Key Points

• Several salts are present in seawater, but the most abundant is ordinary table salt or sodium chloride (NaCl).

• Sodium chloride dissolves in water into its ions,

• It dissociates into Na^+ and Cl^-ions.

• The total amount of all types of salt in the sea averages is about 35 parts per thousand.

• Sodium and chloride ions are present at much higher levels than components of any other salt.

Additional Information

• Sodium tartrate:-

• It is a disodium salt of l-(+) tartaric acid

• It is identified by transparent, colorless, and odorless crystals.

• It is obtained as a byproduct of wine manufacturing.

• It acts as an emulsifier and pH control agent in food products.

• Sodium Acetate:-

• It is an organic sodium salt.

• It contains acetate.

• ChEBI. Sodium Acetate is chemically designated CH3COONa, a hygroscopic powder very soluble in water.

• It could be used as additives in food, industry, concrete manufacture, heating pads, and buffer solutions.

• Sodium nitrite:-

• It is an inorganic sodium salt having nitrite as the counterion.

• Used as a food preservative and antidote to cyanide poisoning.

• It has a role as an antimicrobial food preservative, an antihypertensive agent, a food antioxidant.

Q93. Answer: (c) Mahatma Gandhi's 150^(th) birth anniversary

The correct answer is Mahatma Gandhi's 150th birth anniversary.

Prime Minister of India declared the country as 'Open Defecation Free' on Mahatma Gandhi's 150th birth anniversary.

Key Points

• On the occasion of Mahatma Gandhi's 150th birth anniversary, Prime Minister Narendra Modi declared India open defecation-free and announced that single-use plastic would be phased out by 2022.

• Since 2014, the Government of India, in partnership with UNICEF, has made remarkable strides in reaching the Open Defecation Free targets.

• 36 states and union territories, 706 districts, and over 603,175 villages have been declared open defecation free as of Jan 2020.

Important Points

• ODF is the termination of faecal-oral transmission, defined as:

• No visible faeces found in the environment/village.

• Every household as well as public or community institutions using safe technology option for disposal of faeces.

Q94. Answer: (c) It is a combination of both, software and hardware devices to permit or deny network transmission based on...

The correct answer is It is a combination of both, software and hardware devices to permit or deny network transmission based on a set of rules.

A firewall is a combination of both, software and hardware devices to permit or deny network transmission based on a set of rules.

Key Points

• Firewall is a network security device that monitors and filters incoming and outgoing network traffic based on an organization's previously established security policies.

• It is a system designed to prevent unauthorized access to or from a private network.

• We can implement a firewall in either hardware or software form, or a combination of both.

• It prevents unauthorized internet users from accessing private networks connected to the internet, especially intranets.

• All messages entering or leaving the intranet (the local network to which you are connected) must pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.

• It is essentially the barrier that sits between a private internal network and the public Internet.

• There are three basic types of firewalls:-

• Packet Filters,

• Stateful Inspection

• Proxy Server Firewalls

Q95. Answer: (b) artwork

The correct answer is the artwork.

Pablo Picasso, Claude Monet, Salvador Dali, Vincent Van Gogh were famous for their artwork.

Key Points

• All the personalities are famous for their artworks as paintings.

• Many famous painters or artworkers belonged to France.

• The reason is Art which is the major attraction of France as a tourist destination. People come from all over the world to admire France's museums and art galleries, its stunning medieval architecture.

• Pablo Picasso:-

• "Guernica" is not only Picasso's best-known work, it's one of the most famous paintings in the world.

• Its depiction of an aerial bombing raid on the Basque town of Guernica in April 1937, during the Spanish Civil War.

• Claude Monet:-

• He was a famous French painter whose work gave a name to the art movement Impressionism, which was concerned with capturing light and natural forms.

• Salvador Dalí:-

• He was a Spanish Surrealist painter and printmaker known for exploring subconscious imagery. Arguably, his most famous painting is The Persistence of Memory (1931), depicting limp melting watches.

• Vincent van Gogh:-

• He was a Dutch painter, generally considered to be the greatest after Rembrandt van Rijn, and one of the greatest of the Post-Impressionists.

• He sold only one artwork during his life, but in the century after his death, he became perhaps the most recognized painter of all time.

Q96. Answer: (b) Nepal

The correct answer is Nepal.

To scale Mount Everest, mountaineers need to go to Nepal.

Key Points

• There are two main climbing routes of Mount Everest:-

• First is the summit from the southeast in Nepal (known as the "standard route").

• Other from the north in Tibet.

• While not posing substantial technical climbing challenges on the standard route, Everest presents dangers such as altitude sickness, weather, and wind, as well as significant hazards from avalanches and the Khumbu Icefall

• The first recorded efforts to reach Everest's summit were made by British mountaineers.

Q97. Answer: (c) Water

The correct answer is Water.

pH of water is 7.

Key Points

• The pH of water is likely to be 7.

• pH is a measure of how acidic/basic water is.

Important Points

• The range goes:-

• from 0 to 14, with 7 being neutral.

• pHs of less than 7 indicate acidity,

• whereas a pH of greater than 7 indicates a base.

• The pH of water is a very important measurement concerning water quality.

Q98. Answer: (d) 1956

The correct answer is 1956.

Soil Survey of India established in 1956 to carry out scientific surveys of soils.

Key Points

• Soil Survey of India, established in 1956, made comprehensive studies of soils in selected areas like in the Damodar Valley.

• The National Bureau of Soil Survey and the Land Use Planning Institute under the control of the Indian Council of Agricultural Research (ICAR) did a lot of studies on Indian soils.

• In their effort to study soil and to make it comparable at the international level, the ICAR has classified the Indian soils on the basis of their nature and character as per the United States Department of Agriculture (USDA) Soil Taxonomy.

• On the basis of genesis, color, composition, and location, the soils of India have been classified into:

• Alluvial soils

• Black soils

• Red and Yellow soils

• Laterite soils

• Arid soils

• Saline soils

• Peaty soils

• Forest soils.

Q99. Answer: (d) Cricket

The correct answer is Cricket.

Smriti Mandhana is associated with Cricket.

Key Points

• Indian T20I vice-captain Smriti Mandhana is set to become the first Indian to play in the Kia Super League (KSL), England’s domestic women’s T20 competition.

• Mandhana was selected by the "Western Storm" as their second overseas player.

Important Points

• Smriti Mandhana rose to fourth place but Jemimah Rodrigues dropped to seventh in the latest ICC women’s T20 International rankings for batters.

• Smriti Mandhana has been conferred with the Arjuna Award in 2018.

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Q100. Answer: (c) Reserve Bank of India

The correct answer is the Reserve Bank of India.

Reserve Bank of India is the apex banking institution of India that regulates the monetary policy.

Key Points

• The Reserve Bank Of India is the apex banking institution.

• It has a basic function “to regulate the issue of Bank Notes and keeping of reserves with a view to securing monetary stability in India and generally to operate the currency and credit system of the country to its advantage.”

• It commenced operations on April 1, 1935, is at the centre of India’s financial system. Hence it is called the Central Bank.

• It has a fundamental commitment to maintaining the nation’s monetary and financial stability.

• It started as a private share-holders’ bank – but was nationalized in 1949, under the Reserve Bank (Transfer of Public Ownership) Act, 1948.

• It is a banker to the Central Government, State Governments and Banks.

Important Points

• Key functions of RBI Include:

• Monetary policy.

• Supervision of Banking companies, Non-banking Finance Companies and Financial Sector, Primary Dealers and Credit Information Bureaus.

• Regulation of money market, government securities market, foreign exchange market, and derivatives linked to these markets.

• Management of foreign currency reserves of the country and its current and capital account.

• Issue and management of currency.

• Oversight of payment and settlement systems.

• Development of the banking sector.

• Research and statistics.

• finance companies are regulated by RBI.

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