SSC CHSL Previous Paper 5 (Held On: 18 March 2020 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. Directions: Select the alternative that will improve the underlined part of the sentence. In case there is no improvement select 'No improvement'.

Priya has been working in this school from June 2017.

(a) for June 2017
(b) on June 2017
(c) No improvement
(d) since June 2017

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

KIT

(a) Information
(b) Equipment
(c) Particle
(d) Element

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

VERSATILE

(a) Truthful
(b) Insincere
(c) Honest
(d) Inflexible

Q4. Directions: Select the most appropriate meaning of the idiom.

Touch all bases

(a) Stretch your hands high
(b) Force someone to do something
(c) Include everything
(d) Imagine you are flying

Directions

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

The Great Stupa at Sanchi is one of the oldest stone structures in India. It was originally commissioned (1)____ Emperor Ashoka, in the 3rd century BCE. Its nucleus (2)__ a simple hemispherical brick structure built (3)__ the relics of the Buddha. It was crowned by the chhatri, a parasol-like (4)__ symbolizing high rank, which was (5)____ to honor and shelter the relics.

Q5. Select the most appropriate option to fill in blank No.1

(a) by
(b) with
(c) from
(d) to

Q6. Select the most appropriate option to fill in blank No.2

(a) were
(b) kept
(c) was
(d) gave

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

(a) over
(b) about
(c) into
(d) aside

Q8. Select the most appropriate option to fill in blank No.4

(a) structure
(b) wall
(c) conduit
(d) bridge

Q9. Select the most appropriate option to fill in blank No.5

(a) outlined
(b) intended
(c) informed
(d) predicted

Q10. Directions: Select the most appropriate meaning of the underlined idiom in the given sentence.

The police was able to find the guilty but the big fish escaped.

(a) main leaders
(b) tall people
(c) large-sized ones
(d) plump men

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

A. Waqar instead gave it to Afridi, who went on to score a 37-ball century, the fastest ODI century.

B. That was when his teammate Waqar Younis handed him over a bat that belonged to Sachin Tendulkar.

C. When Shahid Afridi had flown in to join the Pakistan team 1996, he did not even have a proper bat to play with.

D. Sachin had earlier gifted Waqar his bat to take to Sialkot, Pakistan's world famous sports goods manufacturing capital and get a custom-made one replicated there

(a) DCAB
(b) BADC
(c) CBDA
(d) ACBD

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

Kirti asked me if I had watched the movie on television the previous night.

(a) Kirti asked me, "Did you watch the movie on television last night ?"
(b) Kirti asked me, "Had you watched the movie on television last night ?"
(c) Kirti asked me, "You had watched the movie on television last night ?"
(d) Kirti asked me, "Did I watched the movie on television last night ?"

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

Person or thing that is the centre of attention

(a) Organiser
(b) Cynosure
(c) Leader
(d) Politician

Q14. Directions: Select the word with the INCORRECT spelling.

(a) Medetative
(b) Appended
(c) Pensive
(d) Apprehensive

Q15. Select the most appropriate ANTONYM of the given word.

NEBULOUS

(a) Familiar
(b) Common
(c) Mutual
(d) Clear

Q16. Directions: Identify the segment in the sentence, which contains the grammatical error.

It is difficult to make out that they are twins because they do not resemble to each other.

(a) that they are twins
(b) because they do not
(c) resemble to each other
(d) It is difficult to make out

Q17. Directions: Given below are four jumbled sentences. Pick the option that gives their correct order.

A. Mulla Nasruddin opened a hair-cutting salon and was ready to welcome his customers.

B. “Mulla,” he said sheepishly, “my new wife is coming home today.”

C. “Just take out all the grey strands from my beard and make me look very young.”

D. Being the first day, a lot of people came and among them was a man in his early fifties with a flowing beard.

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

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

ANODYNE

(a) Hostile
(b) Gigantic
(c) Benign
(d) Harmful

Q19. Directions: Select the segment in the sentence, which contains the grammatical error.

Oh dear! The audio in one of the channel on television is not clear at all.

(a) in one of the channel
(b) Oh dear! The audio
(c) on television
(d) is not clear at all

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Q20. Directions: Select the option that is the passive form of the sentence.

The batsman had hit the ball towards the boundary.

(a) The ball is hit towards the boundary by the batsman.
(b) The ball was hit towards the boundary by the batsman.
(c) The ball is being hit towards the boundary by the batsman.
(d) The ball had been hit towards the boundary by the batsman.

Q21. Directions: Select the most appropriate option to fill in the blank.

The reporter asked the politician, “As a woman leader, what are some of the major _____ that you face?”

(a) challenges
(b) crashes
(c) contests
(d) crunches

Q22. Directions: Select the most appropriate option to fill in the blank.

Earthquake inspection _____ that the two ancient buildings that remained intact after the Hiroshima bombing in Tokyo would not withstand a strong tremor.

(a) retracted
(b) resumed
(c) revealed
(d) redirected

Q23. Directions: Select the word which means the same as the group of words given.

A small room where dishes are washed.

(a) Pantry
(b) Ante-room
(c) Scullery
(d) Larder

Q24. Directions: Select the alternative that will improve the underlined part of the sentence. In case there is no improvement select ‘No improvement’.

The struggle for climate change must be prioritised given that our population is increasing and not decreasing.

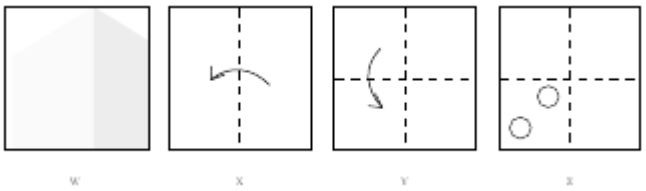
(a) may have prioritised
(b) could prioritise
(c) No improvement
(d) is prioritising

Q25. Directions: Select the word with the correct spelling.

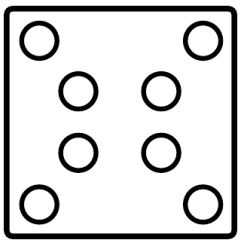
(a) Suceptible
(b) Propencity
(c) Impeccable
(d) Impresionable

GENERAL INTELLIGENCE

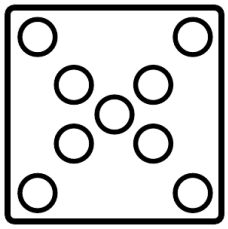
Q26. The sequence of folding a paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



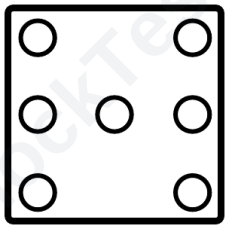
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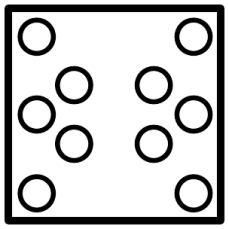
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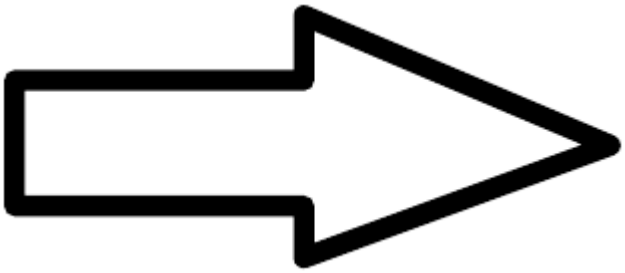
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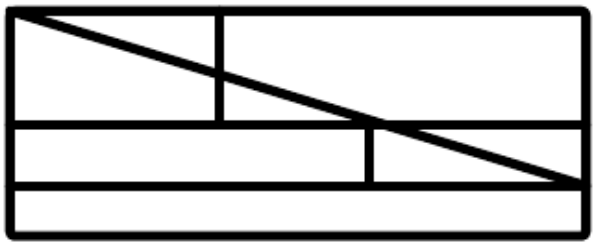
(d)



Q27. Select the option in which the given figure is embedded. (Rotation is not allowed)

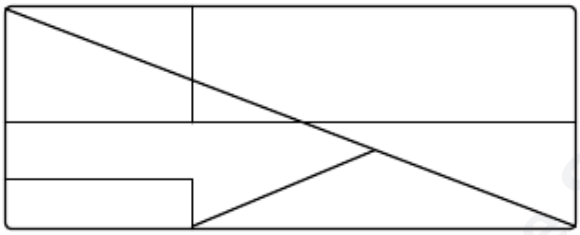


(a)

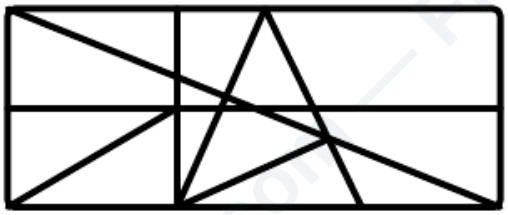


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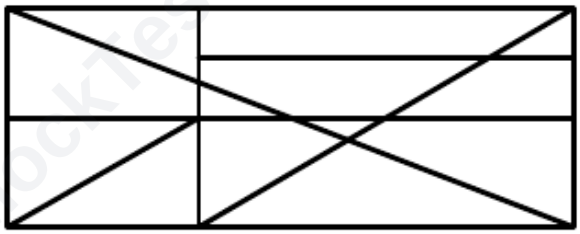
(b)



(c)



(d)



Q28. Select the option in which the numbers share the same relationship as that shared by the given number-pair.

23 : 120

(a) 54 : 250
(b) 45 : 230
(c) 18 : 100
(d) 63 : 316

Q29. In a certain code language, 'MARINE' is written as 'IRMVEQ'. How will 'BEAUTY' be written as in that language?

(a) CXYEIF
(b) CIGZYD
(c) CDOPLY
(d) CJHZE

Q30. In a certain code language, STAR is coded as 55 and CUT is coded as 42. How will 'PEN' be coded as in that language?

(a) 33
(b) 68
(c) 55
(d) 63

Q31. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

a. No cup is a book.

b. Apple is a cup.

Conclusions:

I. Apple is not a book.

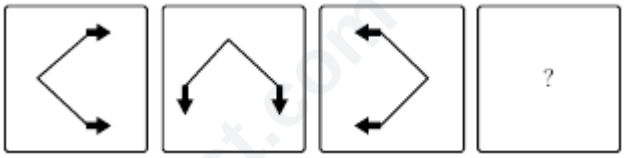
II. Apple may or may not be a book.

(a) Only conclusion II follows.
(b) Only conclusion I follows.
(c) Both conclusions I and II follow.
(d) Neither conclusion I nor II follows.

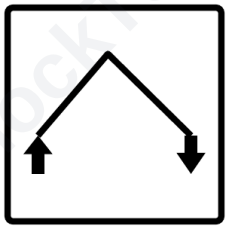
Q32. Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different from the rest.

(a) 1568
(b) 2628
(c) 1432
(d) 2514

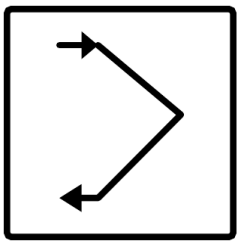
Q33. Select the option figure that can replace the question mark (?) in the following series.



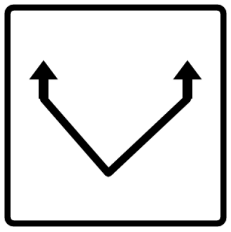
(a)



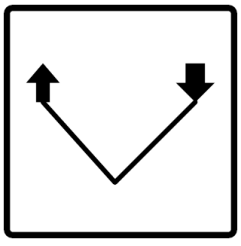
(b)



(c)

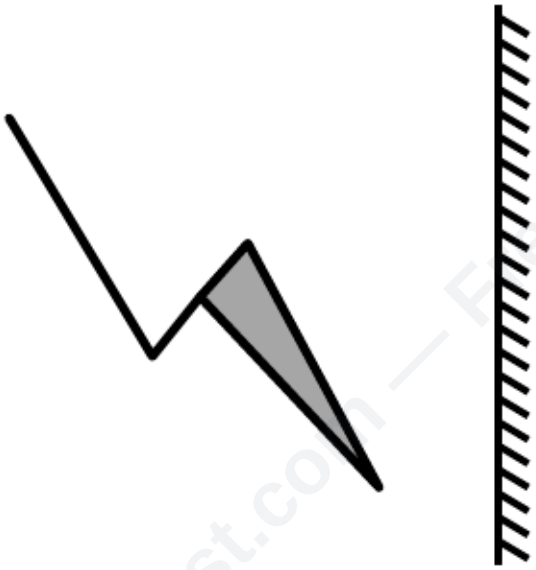


(d)



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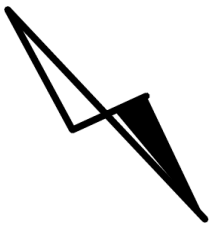
Q34. Select the correct mirror image of the given figure.



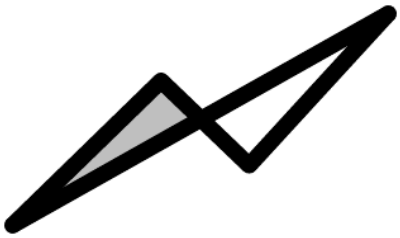
(a)



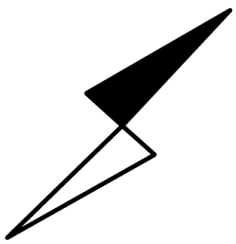
(b)



(c)



(d)



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Q35. Select the option that is related to the third word in the same way as the second word is related to the first word.

Gradual : Abrupt :: Factual : ?

(a) Fictional
(b) Actual
(c) Bonafide
(d) Verifiable

Q36. 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.

GROW : IMRS : PEST : ?

(a) SZWQ
(b) THVW
(c) RZVP
(d) ODQP

Q37. Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series

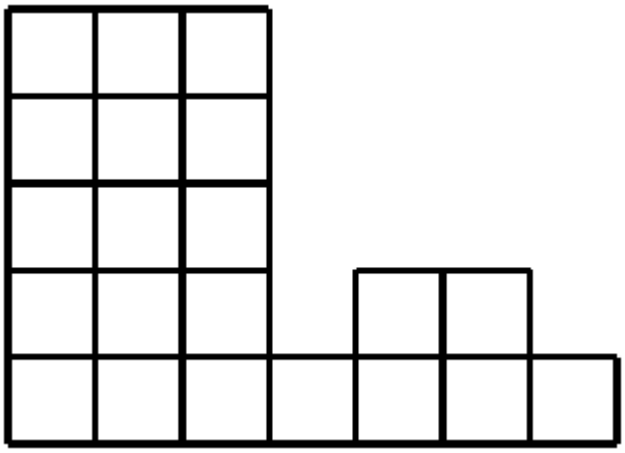
cc_e_ _gcccdeff_ _ _cd_ _fgc

(a) dffgccef
(b) eececfce
(c) cffeccef
(d) ffceefde

Q38. B does not have a sister. A is the sister-in-law of B. D is the only brother of B, while B is unmarried, F is the father-in-law of D. K is the wife F. How is K related to A?

(a) Daughter
(b) Mother
(c) Sister
(d) Mother in law

Q39. How many squares are there in the following figure?



(a) 36
(b) 25
(c) 33
(d) 42

Q40. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

15		18		?	
5	6	4	9	6	7

(a) 15
(b) 22
(c) 21
(d) 23

Q41. Select the correct combination of mathematical signs to replace 'Y' sequentially and balance the following equation.

18 Y 2 Y 3 Y 3 Y 9

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

Q42. Select the option in which the numbers are related in the same way as are the numbers in the given set.

(36, 10, 16)

(a) (81, 11, 4)
(b) (24, 9, 18)
(c) (21, 5, 28)
(d) (13, 5, 8)

Q43. One pound is approximately equal to 0.453 kg. Jennifer bought 4.409 pounds of custard apple. How many kilograms of custard apple did she buy (approximately)?

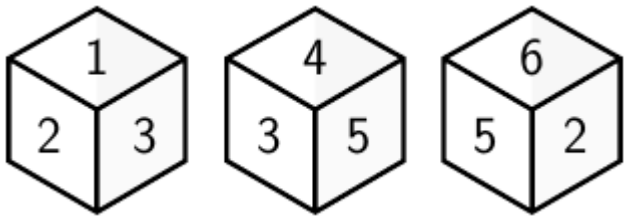
(a) 1
(b) 2.5
(c) 2
(d) 1.5

Q44. Select the number that can replace the question mark (?) in the following series.

8, 13, 23, 43, ?, 163, 323

(a) 83
(b) 79
(c) 63
(d) 93

Q45. Three different positions of the same dice are shown. Select the number that will be on the face opposite to the face showing the number '1'.



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

Q46. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

(a) CDJK
(b) OPTU
(c) LMST
(d) ABHI

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Q47. In a certain code language, 'SURGEON' is written as '5-3-6-17-19-9-10' then how will 'DENTIST' be written in the same code language?

(a) 20-19-10-4-15-6-5
(b) 20-19-10-4-15-5-4
(c) 23-22-13-7-18-8-7
(d) 19-18-10-4-15-5-4

Q48. Three of the given four words are somehow similar and one is Different. Select that odd word.

(a) Calf
(b) Nest
(c) Cow shed
(d) Bee hive

Q49. Select the option that is related to the third word in the same way as the second word is related to the third word.

Exercise : Gymnasium :: Boxing : ?

(a) Ring
(b) Track
(c) Court
(d) Rink

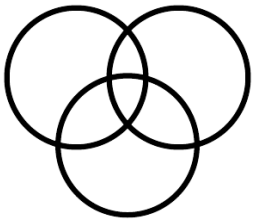
Q50. Select the Venn diagram that best represents the relationship between the following classes.

Tortoise, Mammal, Amphibian

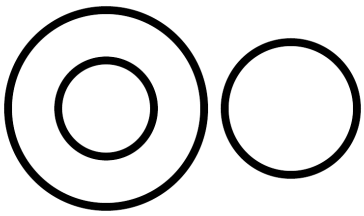
(a)



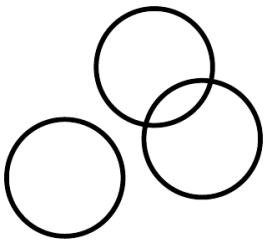
(b)



(c)



(d)



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QUANTITATIVE APTITUDE

Q51. If p + (1/p) = 2 find the value of p × p × p

(a) 1
(b) 2
(c) 4
(d) 8

Q52. If the perimeter and breadth of a rectangle are in the ratio 6 : 1 and the area of the rectangle is 288 cm². Find the length of the rectangle.

(a) 24 cm
(b) 12 cm
(c) 10 cm
(d) 18 cm

Q53. A person covers 700 m distance in 6 minutes. What is his speed in km/h?

(a) 4.23 km/h
(b) 3.45 km/h
(c) 7 km/h
(d) 6 km/h

Q54. Find the perimeter of a right angle triangle whose sides have sizes of 5 cm and 12 cm.

(a) 18 cm
(b) 30 cm
(c) 17 cm
(d) 25 cm

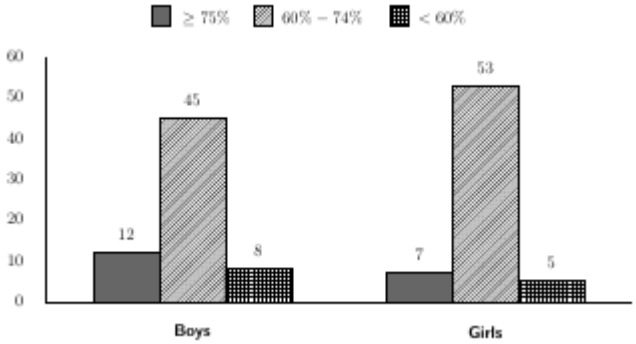
Q55. Find x, if 30% of 400 + x% of 70 = 25% of 536.

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

Q56. If sin θ - cos θ = 1/29 find the value of sinθ + cosθ.

(a) 22/29
(b) 41/29
(c) 42/29
(d) 2/29

Q57. The given bar chart shows the number of students in a class who have secured marks in three ranges: > = 75%, 60% - 74% and <60%.



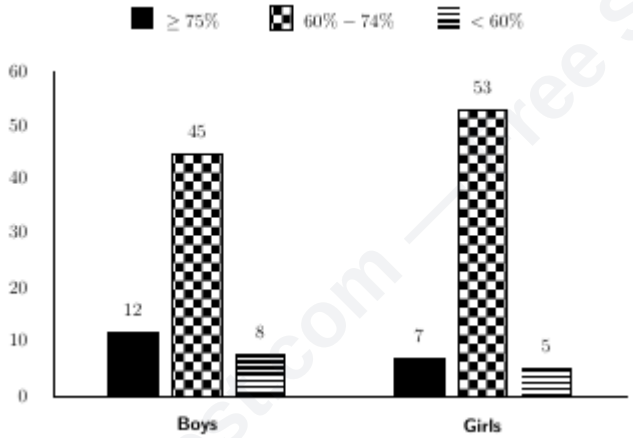
From the given information, identify how much percent of girls got distinction. (Note - Distinction refers to marks that are equal to or more than 75%)

(a) 18.49%

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(b) 17.86%
(c) 14.28%
(d) 10.76%

Q58. The given bar chart shows the number of students in a class who have secured marks in three ranges: >= 75%, 60% - 74% and <60%



What is the ratio of percentages of boys and girls who got marks from 60% to 74%?

(a) 69.23 : 81.53
(b) 64.12 : 88.23
(c) 62.78 : 82.67
(d) 67.54 : 87.45

Q59. The average of four consecutive even numbers is 27. By adding which number does the average become 28?

(a) 30
(b) 29
(c) 32
(d) 33

Q60. If the present amount is Rs.87,750 with 8% rate of interest in four years, then what was the principal amount?

(a) Rs.69,345.6
(b) Rs.56,896.98
(c) Rs.66,477.2
(d) Rs.78,456.34

Q61. Find the value of sin(60 + θ) - cos(30 - θ).

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

Q62. P can work thrice as fast as Q. Working independently, Q can complete a task in 24 days. In how many days can P and Q together finish the same task?

(a) 6
(b) 4
(c) 8
(d) 5

Q63. The incomes of two persons P and Q are in the ratio 5 : 6. If each of them saves Rs.200 per month, the ratio of their expenditures is 3 : 4. Find the income of Q.

(a) Rs.740
(b) Rs.800
(c) Rs.750

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(d) Rs.600

Q64. If a + b + c + d = 2, then the maximum value of (1 + a) (1 + b) (1 + c) (1 + d) is _____.

(a) 91/9
(b) 81/16
(c) 63/22
(d) 54/13

Q65. A dozen pairs of gloves worth Rs.600 are available at a discount of 10%. Find out how many pairs of gloves can be bought for Rs.270.

(a) Seven
(b) Six
(c) Five
(d) Four

Q66. The wheel of a car has 210 cm diameter. How many revolutions per minute must the wheel make so that the speed of the car is kept at 120 km/h?

(a) 326.42
(b) 245
(c) 289
(d) 303.03

Q67. The sum of the number of male and female students in an institute is 100. If the number of male students is x, then the number of female students becomes x% of the total number of students. Find the number of male students.

(a) 60
(b) 65
(c) 50
(d) 45

Q68. The selling price of a book, including the sales tax, is Rs.956.34. The rate of sales tax is 10%. If the shopkeeper has made a profit of 15%. then the cost price of the book is:

(a) Rs.756
(b) Rs.836
(c) Rs.845.98
(d) Rs.797.34

Q69. If a positive integer n is divided by 7, the remainder is 2. Which of the numbers in the options yields a remainder of 0 when it is divided by 7?

(a) n + 2
(b) n + 1
(c) n + 3
(d) n + 5

Q70. Two circles touch each other externally. The distance between their centres is 8 cm. If the radius of one circle is 3 cm, then the radius of the other circle is:

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

Q71. Find the value of √(30 + √(30 + √(30 + √(30 + ... ∞))))

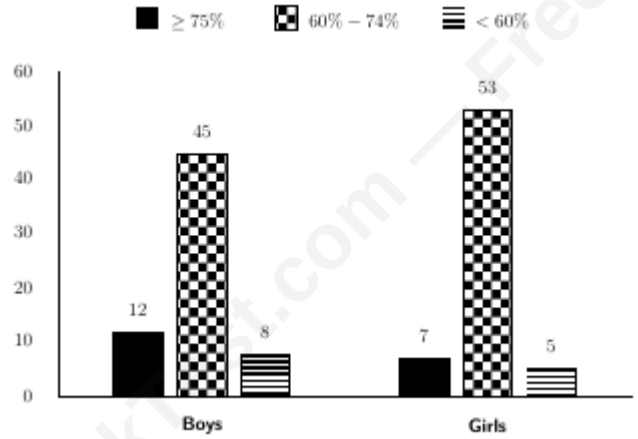
(a) 3
(b) 5
(c) 6
(d) 4

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Q72. The perimeter of an isosceles triangle is 125 cm. If the base is 33 cm, find the length of the equal sides.

(a) 42 cm
(b) 34 cm
(c) 32 cm
(d) 46 cm

Q73. The given bar chart shows the number of students in a class who have secured marks in three ranges: >= 75%, 60% - 74% and < 60%.



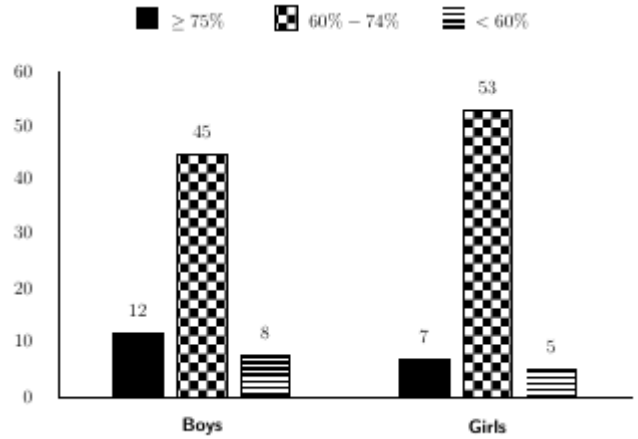
From the given information, identify the per cent of boys who got distinction.

(a) 13.98%
(b) 18.46%
(c) 16.78%
(d) 15.29%

Q74. Find x if sin x = - 1/2.

(a) (11 π)/6
(b) (17 π)/6
(c) (π)/6
(d) (5 π)/6

Q75. The given bar chart shows the number of students in a class who have secured marks in three ranges: >= 75%, 60% - 74% and < 60%.



What is the total strength of the class?

(a) 110
(b) 120
(c) 140
(d) 130

GENERAL AWARENESS

Q76. In which year did Telangana become the 29^(th) state of India ?

(a) 2002
(b) 2011
(c) 2014
(d) 2004

Q77. Which among the following states has the highest representation in the Lok Sabha?

(a) Uttar Pradesh
(b) Tamil Nadu
(c) Andhra Pradesh
(d) Rajasthan

Q78. Which of the following nations defeated India in the semi-final of the ICC ODI Cricket World Cup 2019 ?

(a) New Zealand
(b) England
(c) South Africa
(d) Australia

Q79. Who has been appointed the Director General of the National Security Guard (NSG) in October 2019 ?

(a) Anup Kumar Singh
(b) Awadhesh Pratap Singh
(c) BPS Yadav
(d) Utkarsh Jain

Q80. Which of the following is an input device that utilises a light-sensitive detector to select objects on a display screen ?

(a) Optical mark recognition (OMR)
(b) Magnetic ink character recognition (MICR)
(c) Bar code reader
(d) Light pen

Q81. In which of the following states is the Phodong monastery situated ?

(a) Bihar
(b) Uttar Pradesh
(c) Arunachal Pradesh
(d) Sikkim

Q82. Which among the following is the oldest mountain/hill range in India ?

(a) Himalayas
(b) Aravalli Hills
(c) Eastern Ghats
(d) Western Ghats

Q83. Who was the Prime Minister of Britain/UK when British Parliament passed an independence bill for India in July 1947 ?

(a) Neville Chamberlain
(b) Clement Attlee
(c) Winston Churchill
(d) Ramsay Macdonald

Q84. Which of the following nations won the inaugural ATP Cup tennis tournament in January 2020 ?

(a) Serbia
(b) Switzerland
(c) Spain

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(d) Germany

Q85. The 2019 Nobel Peace Prize has been awarded to the Ethiopian Prime Minister, Abiy Ahmed Ali, particularly for his efforts to resolve border dispute with:

(a) Eritrea
(b) Kenya
(c) Sudan
(d) Somalia

Q86. With which of the following states/union territories is the Dumhal folk dance associated?

(a) Arunachal Pradesh
(b) Andaman and Nicobar Islands
(c) Haryana
(d) Jammu and Kashmir

Q87. Which of the following nations 'unintentionally' shot down a Ukrainian Boeing 737-800 passenger aircraft in January 2020 ?

(a) Syria
(b) Iran
(c) Saudi Arabia
(d) Iraq

Q88. Which one of the following nations finished the year 2019 as the top shooting nation in the world as per the International Shooting Sport Federation's (ISSF) overall rankings for 2019 ?

(a) China
(b) USA
(c) Russia
(d) India

Q89. The earthquake waves are recorded by an instrument called:

(a) Speedometer
(b) Odometer
(c) Richter scale
(d) Seismograph

Q90. What was the focal theme of the 107^(th) Indian Science Congress held at Bengaluru in January 2020 ?

(a) Science and Technology: Renewable Energy Development
(b) Science and Technology: Urban Development
(c) Science and Technology: Water Resources Development
(d) Science and Technology: Rural Development

Q91. Which among the following financial institutions was nationalised in 1949 ?

(a) PNB
(b) IFCI
(c) SIDBI
(d) RBI

Q92. Who among the following won ICC's '2019 ODI Cricketer of The Year' award ?

(a) Ken Williamson
(b) Rohit Sharma
(c) Steven Smith
(d) David Warner

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Q93. Who among the following was chosen as the Time Magazine's 2019 Person of the year ?

(a) Greta Thunberg
(b) Donald Trump
(c) Malala Yousafzai
(d) Narendra Modi

Q94. Which of the following rivers flows into the Bay of Bengal ?

(a) Krishna
(b) Sutlej
(c) Ravi
(d) Beas

Q95. Which causative microorganism is responsible for the common cold and influenza (flu) ?

(a) Protozoa
(b) Viruses
(c) Fungi
(d) Bacteria

Q96. Which of the following crops is an example of Kharif Crops ?

(a) Gram
(b) Cotton
(c) Pea
(d) Wheat

Q97. Which of the following statements about Sambhar lake is true ?

(a) It drains into the Arabian sea.
(b) It is the largest inland salt lake in India.
(c) It was formed due to hypervelocity impact of a comet.
(d) It is the highest lake in India.

Q98. The speed of the Central Processing Unit (CPU) is measured in_____, which represents a CPU cycle.

(a) Gigabyte (GB)
(b) Terabyte (TB)
(c) Hertz (Hz)
(d) Kilobyte (KB)

Q99. The process of impeachment of the President of India can be initiated in:

(a) Rajya Sabha but not in Lok Sabha
(b) Lok Sabha, Rajya Sabha or any state legislative assembly
(c) Lok Sabha but not in Rajya Sabha
(d) either house of the parliament

Q100. Which of the following activities can be classified as a part of secondary sector of an economy ?

(a) Farm equipment manufacturing
(b) Banking
(c) Tea plantation
(d) Legal consulting

ANSWER KEY

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

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41	d	42	a	43	c	44	a	45	b	46	b	47	b	48	a	49	a	50	a
51	a	52	a	53	c	54	b	55	d	56	b	57	d	58	a	59	c	60	c
61	a	62	a	63	d	64	b	65	b	66	d	67	c	68	a	69	d	70	b
71	c	72	d	73	b	74	a	75	d	76	c	77	a	78	a	79	a	80	d
81	d	82	b	83	b	84	a	85	a	86	d	87	b	88	d	89	d	90	d
91	d	92	b	93	a	94	a	95	b	96	b	97	b	98	c	99	d	100	a

SOLUTIONS

Q1. Answer: (d) since June 2017

The correct answer is- since June 2017.

Key Points

• The present perfect continuous is a verb tense that shows an action or state that either occurred at an indefinite time in the past or began in the past and continued to the present time.

• The structure is given below:

• Subject + has/have + been + V1 + -ing + since/for + object.

• Since is used for a point of time (1982, last month, etc.) whereas for is used for any duration (4 days, 6 months, etc.).

• Example:

• The factory has been working well since 1945.

• As a point of time i.e. 1917 has been given in the question, 'since' will replace 'from' in the underlined part.

• In this way, we are left with the only correct choice as the 4th option.

Correct Sentence: Priya has been working in this school since June 2017.

Q2. Answer: (b) Equipment

The correct answer is- Equipment.

Key Points

• Let's look at the meanings of the given word and marked option:

• Kit- a set of articles or equipment needed for a specific purpose

• Equipment- the necessary items for a particular purpose

• Let's look at the meanings of the other given options:

• Information- facts provided or learned about something or someone

• Particle- a minute portion of matter

• Element- a part or aspect of something abstract, especially one that is essential or characteristic

• Hence from the given meanings, we find that Kit and Equipment are synonyms.

Q3. Answer: (d) Inflexible

The correct answer is- Inflexible.

Key Points

• Let's look at the meanings of the given word and marked option:

• Versatile- able to adapt or be adapted to many different functions or activities

• Inflexible- unwilling to change or compromise

• Let's look at the meanings of the other given options:

• Truthful- (of a person or statement) telling or expressing the truth; Honest

• Insincere- not expressing genuine feelings

• Hence from the given meanings, we find that Versatile and Inflexible are antonyms.

Q4. Answer: (c) Include everything

The correct answer is- Include everything.

Key Points

• Let's look at the meaning of the given idiom:

• Touch/cover all bases- to include, make reference to, or take action on every desired or required element or aspect (of

something)
• Example:
• We need to make sure that we are covering all the bases in our campaign.

Additional Information
• Let's look at the origin of the idiom:
• In baseball, batters have to touch the first, second, and third bases to score a run.

Q5. Answer: (a) by

The correct answer is- by.
Key Points
• The given sentence is in the simple past tense. The passive verb form for simple past is:
• was/were + past participle form of the verb + by + subject.
• The given sentence is in a passive voice form (was commissioned) as evident from the usage of the above-mentioned structure.
• Thus, we are left with the only correct choice as the 1st option i.e. by.

Q6. Answer: (c) was

The correct answer is- was.
Key Points
• The simple past tense is used when we talk about things that happened or existed before now.
• The structure is given below:
• Subject + V2 + object. (Active Voice)
• Object + was/were + V3 + by + subject. (Passive Voice)
• Example:
• *He won the car race. *(active voice)
• The car race was won by him. (passive voice)
• Since the given sentence is in active voice form, 'was' will be used in the 2nd blank.
Additional Information
• Some phrases are followed by past indefinite/simple tense as given below:
• It's high time, It's time, It's about time, etc.
• For example:
• It's high time I start preparing for my final exams*.*
• It's high time I started preparing for my final exams.

Q7. Answer: (a) over

The correct answer is - over.
Key Points
• Let's look at the meanings of the given words:
• over- above so as to cover or protect
• about- on the subject of; concerning
• into- indicating the direction toward which someone or something is turned when confronting something else
• aside- to one side; out of the way
• As per the context of the given sentence, the chhatri (a parasol or umbrella-like complex) was erected with an intention to provide respect and shelter to the remains of Buddha.
• The structure was built exactly above the relics of the Buddha in order to protect them.
• In the current scenario, the 1st option i.e. over is the correct choice in the 3rd blank.

Q8. Answer: (a) structure

The correct answer is - structure.
Key Points
• Let's look at the meanings of the given words:
• structure- the arrangement of and relations between the parts or elements of something complex
• wall- a continuous vertical brick or stone structure that encloses or divides an area of land

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• conduit- a channel for conveying water or other fluid

• bridge- a structure carrying a road, path, railroad, or canal across a river, ravine, road, railroad, or other obstacles

• As per the context of the given sentence, the chhatri (a parasol or umbrella-like complex) was erected with an intention to provide respect and shelter to the remains of Buddha.

• In the current scenario, the 1st option i.e. structure is the correct choice in the 4th blank.

Q9. Answer: (b) intended

The correct answer is - intended.

Key Points

• Let's look at the meanings of the given words:

• outlined- draw, trace, or define the outer edge or shape of (something)

• intended- have (a course of action) as one's purpose or objective

• informed- give (someone) facts or information; tell

• predicted- stated or estimated as likely to happen in the future; forecast

• As per the context of the given sentence, the chhatri was erected with an intention to provide respect and shelter to the remains of Buddha.

• In the current scenario, the 2nd option i.e. intended is the correct choice in the 5th blank.

Q10. Answer: (a) main leaders

The correct answer is- main leaders.

Key Points

• Let's look at the meaning of the given idiom:

• Big fish- an important, successful, or influential person

• Example:

• Meeting a big fish like the company's CEO can be quite an intimidating experience for an intern.

Additional Information

• Let's look at similar idioms which have the same meaning:

• A big cheese, a big gun, a big wheel, etc.

Q11. Answer: (c) CBDA

The correct answer is - CBDA.

Key Points

• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:

• Sentence C introduces us to the subject 'Shahid Afridi'. It is the introductory sentence and will be put in the first place.

• Sentence B tells us about the event of Waqar Younis giving his bat to Shahid Afridi. It will be put in second place.

• Sentence D tells us about the actual owner (Sachin Tendulkar) of the bat gifted by Waqar Younis. It will be put in third place.

• The last sentence is A as it mentions the act of Shahid Afridi hitting the fastest ODI century.

• Thus, the correct order is - CBDA.

Q12. Answer: (a) Kirti asked me, “Did you watch the movie on television last night ?”

The correct answer is- Kirti asked me, “Did you watch the movie on television last night ?”

Key Points

• Let's look at the steps to change the sentence from indirect to direct speech:

• The tense of direct speech is changed only when the reporting verb is in the past tense.

• When the indirect speech is in an assertive form, we follow the steps given below:

• Connectors 'whether/why' or 'if' are replaced by the comma and inverted commas.

• The tense of reported speech is changed only when the reporting verb is in the past tense.

• Change the reported speech from assertive to interrogative.

• The personal pronouns will be changed according to the subject and object of the reporting verb.

• Here the 1st person 'I' will change into the 2nd person 'you' as per the object.

• Past perfect tense (had watched) in indirect speech changes to Past simple in direct speech (Did you watch).

• Words showing time and place are changed accordingly. (the previous night-last night)

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• At last line up the remaining part.

Following these steps, we finally get- Kirti asked me, “Did you watch the movie on television last night ?”

Q13. Answer: (b) Cynosure

The correct answer is- Cynosure.

Key Points

• Let's look at the meaning of the marked option:

• Cynosure- a person or thing that is the center of attention or admiration

• Let's look at the meanings of the other given options:

• Organizer- a person who organizes

• Leader- the person who leads or commands a group, organization, or country

• Politician- a person who is professionally involved in politics, especially as a holder of or a candidate for an elected office

• Hence, from the given meanings, we find that Cynosure is the correct one-word substitute.

Q14. Answer: (a) Medetative

The correct answer is - Medetative.

Key Points

• Let's look at the correct spelling and meaning of the marked option:

• Meditative- relating to or absorbed in meditation or considered thought

• Example:

• She closed her eyes and went into a meditative trance.

• Let's look at the meanings of the other given options:

• Appended- add (something) as an attachment or supplement

• Pensive- engaged in, involving, or reflecting deep or serious thought

• Apprehensive- anxious or fearful that something bad or unpleasant will happen

Q15. Answer: (d) Clear

The correct answer is- Clear.

Key Points

• Let's look at the meanings of the given word and marked option:

• Nebulous- in the form of a cloud or haze; hazy

• Clear- easy to perceive, understand or interpret

• Let's look at the meanings of the other given options:

• Familiar- well known from long or close association

• Common- occurring, found, or done often; prevalent

• Mutual- (of a feeling or action) experienced or done by each of two or more parties toward the other or others

• Hence from the given meanings, we find that Nebulous and Clear are antonyms.

Q16. Answer: (c) resemble to each other

The correct answer is- resemble to each other.

Key Points

• There are some verbs that are not followed by a preposition. Some of them are given below:

• consider, discuss, influence, emphasize, resemble, inform, return, etc.

• Example:

• We can discuss about the opportunity for a promotion. (incorrect)

• We can discuss the opportunity for a promotion. (correct)

• Hence the part given in the 3rd option, the verb 'resemble' won't be followed by the preposition 'to'.

Correct Sentence: It is difficult to make out that they are twins because they do not resemble each other.

Additional Information

• Some verbs can be both prepositional and not prepositional, depending on the context or the verb tense.

• In the simple present tense, comprise is never prepositional.

• When comprised follows is or was, it functions as an adjective and requires the preposition of.

• Example:

• Five people comprise the committee. (active voice)
• The committee is comprised of five people. (passive voice)

Q17. Answer: (b) ADBC

The correct answer is - ADBC.

Key Points

• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:
• Sentence A introduces us to the subject 'Mulla Nasruddin'. It is the introductory sentence and will be put in the first place.
• Sentence D tells us about the first day of the salon which the subject had opened. It will be put in second place.
• Sentence B tells us about a particular customer talking to the subject. It will be put in third place.
• The last sentence is C as it mentions the type of haircut the customer wanted for his beard.
• Thus, the correct order is - ADBC.

Q18. Answer: (c) Benign

The solution is in Hindi. Read it online.

Q19. Answer: (a) in one of the channel

The correct answer is- in one of the channel.

Key Points

• 'One of/only one of' is always followed by a noun/pronoun in the plural form and verb in the singular form.
• For example:
• One of my friends are a dancer.
• One of my friends is a dancer.
• As per the rule and example given above, 'channels' will be used instead of 'channel' in the part given in the 1st option.

Correct Sentence: Oh dear! The audio in one of the channels on television is not clear at all.

• If a subject and a verb are joined by a relative pronoun, the verb will agree with the antecedent to the relative pronoun.
• Example:
• He is one of those men who trust everybody whom he socializes with.

Q20. Answer: (d) The ball had been hit towards the boundary by the batsman.

The correct answer is - The ball had been hit towards the boundary by the batsman.

Key Points

• The given sentence is in the active voice, hence we need to convert it into the passive voice.
• Find the subject (The batsman) and object (the ball) of the sentence and exchange their places.
• The given sentence is in the past perfect tense. The passive verb form for the past perfect is:
• Had + been + past participle form of the verb.
• So, 'had hit' changes to 'had been hit'.
• At last line up the remaining part.

Following these steps, we finally get - The ball had been hit towards the boundary by the batsman.

Q21. Answer: (a) challenges

The correct answer is - challenges.

Key Points

• Let's look at the meanings of the given words:
• challenges- a task or situation that tests someone's abilities
• crashes- cause (a moving object) to collide with an obstacle or another vehicle
• contests- an event in which people compete for supremacy in a sport, activity, or particular quality
• crunches- crush (a hard or brittle foodstuff) with the teeth, making a loud but muffled grinding sound
• As per the context of the given sentence, the woman politician is enquired about the obstacles she had to go through in her profession.
• In the current scenario, the 1st option i.e. challenges is the correct choice in the given sentence.

Correct Sentence: The reporter asked the politician, “As a woman leader, what are some of the major challenges that you face?”

Q22. Answer: (c) revealed

The correct answer is - revealed.

Key Points

• Let's look at the meanings of the given words:

• retracted- withdraw (a statement or accusation) as untrue or unjustified

• resumed- begin to do or pursue (something) again after a pause or interruption

• revealed- make (previously unknown or secret information) known to others

• redirected- direct (something) to a new or different place or purpose

• As per the context of the given sentence, the inspection divulged the event of two ancient buildings withstanding a strong tremor of the earthquake.

• In the current scenario, the 3rd option i.e. revealed is the correct choice in the given sentence.

Correct Sentence: Earthquake inspection revealed that the two ancient buildings that remained intact after the Hiroshima bombing in Tokyo would not withstand a strong tremor.

Q23. Answer: (c) Scullery

The correct answer is- Scullery.

Key Points

• Let's look at the meaning of the marked option:

• Scullery- a small kitchen or room at the back of a house used for washing dishes and other dirty household work

• Let's look at the meanings of the other given options:

• Pantry- a small room or closet in which food, dishes, and utensils are kept

• Ante-room- an antechamber, typically serving as a waiting room

• Larder- a room or large cupboard for storing food

• Hence, from the given meanings, we find that Scullery is the correct one-word substitute.

Q24. Answer: (c) No improvement

The correct answer is- No improvement.

Key Points

• Let's look at the structures given below in active and passive forms:

• Active- Subject + modal verb + V1 + Object.

• Passive- Object + modal verb + be + V3 + by + Subject.

• Example:

• She might her task. (active)

• Her task might be finished by her. (passive)

• **The former part of the sentence given in the question conforms to the passive voice structure.

Following the passive voice form, we finally get- The struggle for climate change must be prioritised given that our population is increasing and not decreasing.

Additional Information

• There is a difference between 'must' and 'have to' given below:

• Must expresses obligation or compulsion imposed by the speaker.

• Whereas 'have to' expresses external obligations.

• Example:

• We must fasten our seat belts. (the speaker thinks so)

• They have to help the needy. (others think this and not the speaker)

Q25. Answer: (c) Impeccable

The correct answer is - Impeccable.

Key Points

• Let's look at the meaning of the marked option:

• Impeccable- (of behavior, performance, or appearance) in accordance with the highest standards of propriety; faultless

• Example:

• Even in her own lands, the matriarch's rank had to be absolutely impeccable to allow her to speak.

• Let's look at the correct spelling and meaning of the other given options:

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• Susceptible- likely or liable to be influenced or harmed by a particular thing
• Propensity- an inclination or natural tendency to behave in a particular way
• Impressionable- easily influenced because of a lack of critical ability

Q26. Answer: (a) [figure]

The paper when unfolded will appear as shown below:
Hence, ‘option 1’ is the correct answer.

Q27. Answer: (b) [figure]

The option in which the given figure is embedded when rotation is not allowed is shown below:
Hence, ‘option 2’ is the correct answer.

Q28. Answer: (b) 45 : 230

The logic is:
23 : 120 → 23 : (23 + 1) × 5
Similarly,
1) 54 : 250 → 54 : (54 + 1) × 5 ≠ 250
2) 45 : 230 → 45 : (45 + 1) × 5 = 230
3) 18 : 90 → 18 : (18 + 1) × 5 ≠ 100
4) 63 : 316 → 63 : (63 + 1) × 5 ≠ 316
Hence, ‘45 : 230’ is the correct answer.

Q29. Answer: (a) CXYEIF

The logic is:
Similarly,
Hence, ‘CXYEIF’ is the correct answer.

Q30. Answer: (a) 33

The pattern followed here is:
According to the alphabetical positions of the letters,
Note: The logic is → Place value of letters – (No. of letters in the word – 1)
Hence, ‘33’ is the correct answer.

Q31. Answer: (b) Only conclusion I follows.

I. Apple is not a book. → True (As, No cup is a book and Apple is a cup)
II. Apple may or may not be a book. → False (It cannot be concluded from the given statements)
Hence, only conclusion I follows.

Q32. Answer: (d) 2514

The pattern followed here is,
1568, 2628, and 1432 are divisible by 4.
2514 is not divisible by 4.
hence, 2514 is the different one.

Q33. Answer: (c) [figure]

The figures in the series is rotating in clockwise direction.
So, the next figure in the series will be option 3 as shown below:
Hence, ‘option 3’ is the correct answer.

Q34. 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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Q35. Answer: (a) Fictional

The logic is:

Gradual : Abrupt → Gradual is antonym of Abrupt.

Similarly,

Factual : ? → Factual is antonym of Fictional.

Hence, 'Fictional' is the correct answer.

Q36. Answer: (c) RZVP

The pattern followed here is:

According to the alphabetical positions of the letters,

Similarly,

Hence, 'RZVP' is the correct answer.

Q37. Answer: (a) dffgccef

1) dffgccef

ccdeffgc / ccdeffgc / ccdeffgc

Here we see that the same pattern is repeated when the series is divided into three equal parts.

2) eececfce

cceeecgc / ccdeffec / fcdcefgc

No pattern is repeated when the series is divided into three equal parts.

3) cffeccef

ccceffgc / ccdeffec / ccdeffgc

No pattern is repeated when the series is divided into three equal parts.

4) ffceefde

ccfefcgc / ccdeffee / fcddefgc

No pattern is repeated when the series is divided into three equal parts.

Hence, 'dffgccef' is the correct answer.

Q38. Answer: (b) Mother

According to given conditions,

K is the mother of A.

Hence, 'Mother' is the correct answer.

Q39. Answer: (c) 33

The number of squares in the figure is shown below:

Hence, '33' is the correct answer.

If are 3 rows and 3 columns in the above figure. So let n = 3.

Here, we using formulas for finding the number of squares in an n × n grid as follows.

Formula :-

$n^2 + (n - 1)^2 + (n - 2)^2 + - - - - - - - - - - + (n - n)^2$

Now substitute n = 3 in the above formula,

$3^2+ (3 - 1)^2 + (3 - 2)^2 + (3 - 3)^2$

$9 + 2^2 + 12 + 0 = 9 + 4 + 1 = 14$

If are 2 rows and 2 columns in the above figure. So let n = 2.

Now substitute n = 2 in the above formula,

$2^2 + (2 - 1)^2 = 4 + 1 = 5$

Now,

Till now, total squares = 14 + 5 + 8 = 27

6 squares are given in detail (square no. 26, 28, 30, 31, 32, 33)

So, total number of squares = 27 + 6 = 33.

Q40. Answer: (c) 21

The logic is:

(5 × 6)/2 = 15
(4 × 9)/2 = 18
Similarly,
(6 × 7)/2 = ?
=> 42/2 = ?
=> 21 = ?
Hence, '21' is the correct answer.

Q41. Answer: (d) ÷, ×, =, ×

1) ÷, ×, =, -
Given expression: 18 Y 2 Y 3 Y 3 Y 9
After replacing Y's, we get:
18 ÷ 2 × 3 = 3 – 9
=> 9 × 3 = -6
=> 27 ≠ -6
2) ×, =, -, ÷
Given expression: 18 Y 2 Y 3 Y 3 Y 9
After replacing Y's, we get:
18 × 2 = 3 – 3 ÷ 9
=> 36 = 3 – 0.34
=> 36 ≠ 2.67
3) ×, ÷, +, =
Given expression: 18 Y 2 Y 3 Y 3 Y 9
After replacing Y's, we get:
18 × 2 ÷ 3 + 3 = 9
=> 12 + 3 = 9
=> 15 ≠ 9
4) ÷, ×, =, ×
Given expression: 18 Y 2 Y 3 Y 3 Y 9
After replacing Y's, we get:
18 ÷ 2 × 3 = 3 × 9
=> 9 × 3 = 27
=> 27 = 27
Hence, '÷, ×, =, × ' is the correct answer.

Q42. Answer: (a) (81, 11, 4)

The logic is:
(36, 10, 16) → (6^2, 6 + 4, 4^2)
Similarly,
1) (81, 11, 4) → (9^2, 9 + 2, 2^2)
Hence, '(81, 11, 4)' is the correct answer.

Q43. Answer: (c) 2

One pound is approximately equal to 0.453 kg.
1 pound = 0.453 kg
Jennifer bought 4.409 pounds of custard apple.
4.409 pounds = (4.409 × 0.453) kg
= 1.997277 kg
2 kg
Hence, '2' is the correct answer.

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Q44. Answer: (a) 83

The logic is:

Hence, ‘83’ is the correct answer.

Q45. Answer: (b) 5

In 1^(st) and 2^(nd) dice, ‘3’ is the common face on both the dice, so the faces opposite to each other is shown below:

3	2	1
6	4	5

So, ‘5’ will be on the face opposite to the face showing the number '1'.

Hence, ‘5’ is the correct answer.

Q46. Answer: (b) OPTU

The pattern followed here is:

According to the alphabetical positions of the letters,

1) CDJK → C + 1 = D; D + 6 = J; J + 1 = K

2) OPTU → O + 1 = P; P + 4 = T; T + 1 = U

3) LMST → L + 1 = M; M + 6 = S; S + 1 = T

4) ABHI → A + 1 = B; B + 6 = H; H + 1 = I

Hence, ‘OPTU’ is the odd one out.

Q47. Answer: (b) 20-19-10-4-15-5-4

The pattern followed here is:

According to the alphabetical positions of the letters,

Note: The place values of the reverse letters when moved three steps backward, the code for the word is obtained.

Similarly,

Hence, ‘20-19-10-4-15-5-4’ is the correct answer.

Q48. Answer: (a) Calf

The logic is -

1) Calf → Young one of a cow is called a calf.

2) Nest → Home of birds is called nest.

3) Shed → Home of cows is called cow shed.

4) Hive → Home of bees is called bee hive.

So, all options except ‘calf’ represents name of home of different animals, while ‘calf’ is the name of the young one of an animal.

Hence, ‘Calf’ is the odd one out.

Q49. Answer: (a) Ring

The logic is:

Exercise : Gymnasium → Gymnasium is a room or building equipped for gymnastics, games, and other physical exercise.

Similarly,

Boxing : ? → A boxing ring, often referred to simply as a ring or euphemistically the squared circle, is the space in which a boxing match occurs.

Hence, ‘Ring’ is the correct answer.

Q50. Answer: (a) [figure]

The Venn diagram that best represents the relationship between Tortoise, Mammal, and Amphibian is shown below:

Tortoise is a reptile.

There is a difference between tortoises and turtles.

Tortoises dwell on land, while turtles live in the water.

An animal of the type that gives birth to live babies, not eggs, and feeds its young on milk from its own body are called mammals.

Amphibians are small vertebrates that need water, or a moist environment, to survive. The species in this group include frogs, toads, salamanders, and newts.

Hence, ‘option 1’ is the correct answer.

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Q51. Answer: (a) 1

Given:

(p) + (1/p) = 2

Concept Used:

If (a) + (1/a) = 2, then a will always be equal to 1

Calculation:

Using concept,

We get value of p = 1

Then,

$p \times p \times p = (p)^3$

$\Rightarrow (p)^3 = (1)^3$

Therefore The value of $p \times p \times p$ is 1

Q52. Answer: (a) 24 cm

Given:

The area of the rectangle is 288 cm^2

The perimeter and breadth of a rectangle are in the ratio 6 : 1

Formula used:

Area if rectangle = length × breadth

Perimeter = 2(length + breadth)

Calculation:

Length = l, breadth = b

According to question,

$2(l + b)/b = 6/1$

$\Rightarrow 2l + 2b = 6b$

$\Rightarrow 4b = 2l$

$\Rightarrow l/b = 2/1$

So, length = 2X, breadth = X

Area of rectangle = 288

$\Rightarrow (2X \times X) = 288$

$\Rightarrow 2X^2 = 288$

$\Rightarrow X^2 = 144$

$\Rightarrow X = 12$

Therefore Length of rectangle is 24 cm.

Q53. Answer: (c) 7 km/h

Given:

A person covers 700 m distance in 6 minutes

Formula used:

Speed = Distance/time

Calculation:

Speed = v, Distance = 700 meter, time = 6 minutes

v = 700/6 (m/minute)

Here,

1 m = 1/1000 km

1 minute= 1/60 hour

$\Rightarrow v = (700/1000)/(6/60)$

$\Rightarrow v = (700 \times 60)/(6 \times 1000)$

$\Rightarrow v = 7km/hr$

Therefore His speed in km/h is 7km/hr.

Shortcut Trick

Any speed change from m/minute to km/hr so multiply by 3/50

And speed change from km/hr to m/minute so multiply by 50/3

Here,

v = (700/6) × (3/50)

=> v = 70/10 km/hr

=> v = 7 km/hr

Q54. Answer: (b) 30 cm

Given:

The sides of the right-angled triangle are 5 cm and 12 cm.

Concept Used:

Perimeter = Sum of all sides of the triangle

Calculation:

The sides of the right-angled triangle are 5 cm and 12 cm.

Then, Base = 5 cm

Height = 12 cm

Hypotenuse = $\sqrt{(5)^2 + (12)^2} = \sqrt{25 + 144} = \sqrt{169} = 13$ cm

Then, Perimeter = 5 + 12 +13 = 30 cm

Therefore The perimeter of a right-angle triangle is 30 cm.

Q55. Answer: (d) 20

Given:

30% of 400 + x% of 70 = 25% of 536.

Calculation:

30% of 400 + x% of 70 = 25% of 536.

=> 30/100 × 400 + x/100 × 70 = 25/100 × 536

=> 120 + 7x/10 = 134

=> 7x/10 = 14

=> x = 20

Therefore The value of x is 20.

Q56. Answer: (b) 41/29

Given:

sin θ - cos θ = 1/29

Formula used:

$Sin^2\theta + Cos^2\theta = 1$

Calculation:

Sinθ – Cosθ = 1/29

=> $(Sin\theta – Cos\theta)^2 = (1/29)^2$

=> Sin2θ + Cos2θ – 2SinθCosθ = 1/841

=> 1 – 2SinθCosθ = 1/841

=> 1 – 1/841 = 2SinθCosθ

=> 840/841 = 2SinθCosθ

$(Sin\theta + Cos\theta)^2$

=> Sin2θ + Cos2θ + 2SinθCosθ

=> 1 + 840/841

=> {(841 + 840)/841}

=> 1681/841

=> 41/29

Therefore The value of sinθ + cosθ is 41/29

Shortcut TrickIf (a)sinθ - (b)cosθ = c

then (a)cosθ + (b)sinθ = d

Then $a^2 + b^2 = c^2 + d^2$

So now from the equation;

=> 1 + 1 = 1/841 + d^2

d^2 = 2 - 1/841

d = 41/29

Q57. Answer: (d) 10.76%

Given:

Number of girls who got marks (> = 75%) = 7

Number of girls who got marks (60% - 74%) = 53

Number of girls who got marks (<60%) = 5

Calculation:

Total number of girls = 7 + 53 + 5 = 65

7 girls got distinction

So, % of girl who got distinction

=> (7/65) × 100

=> 700/65

=> 10.76

=> Percentage = 10.76%

Therefore 10.76% of girls got distinction

Q58. Answer: (a) 69.23 : 81.53

Given:

Number of boys whose marks range >= 75% = 12

Number of boys whose marks range 60% - 74% = 45

Number of boys whose marks range <60% = 8

Number of girls whose marks range >= 75% = 7

Number of girls whose marks range 60% - 74% = 53

Number of girls whose marks range <60% = 5

Concept used:

Using the concept of percentage.

Calculation:

Total number of boys = 12 + 45 + 8 = 65

Total number of girls = 7 + 53 + 5 = 65

Percentages of boys who got marks from 60% to 74% = (45/65) × 100

=> The required percentage = 69.23%

Percentages of girls who got marks from 60% to 74% = (53/65) × 100

=> The required percentage = 81.53%

So, The ratio of percentages of boys and girls who got marks from 60% to 74% = (69.23%)/(81.53%) = 69.23 : 81.53

Therefore The ratio of percentages of boys and girls who got marks from 60% to 74% is 69.23 : 81.53.

Q59. Answer: (c) 32

Given:

The average of four consecutive even numbers is 27.

28 adding on each number.

Formula used:

Average = (Sum of total observations)/(Total Number of observation)

Calculation:

Let the four numbers be a, a + 2, a + 4, a + 6.

Let 'x' be added to the number then new average is 28.

(Sum of total observations) = (Total Number of observation) × Average

a + a + 2 + a + 4 + a + 6 = 27 × 4

=> 4a + 12 = 108

=> 4a = 96

=> a = 24

(Sum of total observations) = (Total Number of observation) × Average
=> (a) + (a + 2) + (a + 4) + (a + 6) + x = 28 × 5
=> 4a + 12 + x = 140
=> 108 + x = 140
=> x = 32
Therefore The number added to 32 to numbers then new average is 32.

Q60. Answer: (c) Rs.66,477.2

Given:
If a certain principal amounts to Rs 87750 with 8% per annum in four years.
Formula Used:
Simple interest (S.I) = (P × R × T)/100 (where P is the principal, R is the rate of interest, T is the time period)
Amount = P + S.I = P + (P × R × T)/100 = P (1 + R × T/100)
Calculation:
Let P be the principal amount at 8% p.a for 4 years.
Now by using the above-mentioned formula the Simple interest will be
=> S.I = (P × 8 × 4)/100
And the amount will be = S.I + P
=> Amount = (P × 8 × 4)/100 + P = P(132/100)
Now as given Amount is Rs 87750
=> 87750 = P(132/100)
=> P = Rs 66477.2
Therefore The principal is Rs 66477.2
Shortcut Trick Amount = S.I + P
=> Amount = (P × 8 × 4)/100 + P => 87750 = P(132/100) => P = 66,477.2

Q61. Answer: (a) 0

Formula Used:
Sin(A +B) = SinACosB + CosASinB
Cos(A – B) = CosACosB + SinASinB
Calculation:
=> Sin(60 + θ) = Sin60×Cosθ + Cos60×Sinθ
=> Sin(60 + θ) = (√3/2)Cosθ + (1/2)Sinθ ----(1)
=> Cos(30 – θ) = Cos30×Cosθ + Sin30×Sinθ
=> Cos(30 – θ) = (√3/2)Cosθ + (1/2)Sinθ ----(2)
=> Now the value of Sin(60 + θ) – Cos(30 – θ) from (1) & (2)
=> (√3/2)Cosθ + (1/2)Sinθ – (√3/2)Cosθ - (1/2)Sinθ = 0
Therefore The answer is 0
Short Trick:
Put θ = 0°, we get
=> Sin60 - Cos30 = 0
Therefore From both we get 0

Q62. Answer: (a) 6

Given:
Efficiency of P = 3 × Efficiency of Q
Q can complete the work in 24 days
Formula used:
Total work = efficiency × Time period
Calculation:
Let the efficiency of P be 3x
Let the efficiency of Q be x
Total work = 24 × x

P and Q can complete the (24 × x) work in {(24 × x)/(3x + x)} days
=> 24/4 = 6
Therefore P and Q together finish the same task in 6 days.

Q63. Answer: (d) Rs.600

Given:
Income ratio of P and Q = 5 : 6
Individual savings of P and Q = Rs. 200
Expenditure ratio = 3 : 4
Formula used:
Profit = Investment × Time period
Calculation:
Let income of P be 5x
Let income of Q be 6x
(5x – 200)/(6x – 200) = 3/4
=> 20x – 800 = 18x – 600
=> 20x – 18x = 800 – 600
=> 2x = 200
=> x = 100
Income of P = 100 × 5 = 500
Income of Q = 100 × 6 = 600
Therefore The income of Q is 600.

Q64. Answer: (b) 81/16

Given:
If a + b + c + d = 2.
Calculation:
If a + b + c + d = 2
For maximum value a = b = c = d
=> 4a = 2
=> a = 2/4
=> a = 1/2
Putting the value of a in (1 + a)(1 + b)(1 + c)(1 + d)
=> (1 + 1/2)(1 + 1/2)(1 + 1/2)(1 + 1/2)
=> (3/2)(3/2)(3/2)(3/2)
=> 81/16
Therefore The maximum value of (1 + a) (1 + b) (1 + c) (1 + d) is 81/16.

Q65. Answer: (b) Six

Given:
A dozen pairs of gloves worth Rs.600 are available at a discount of 10%.
Formula used:
Selling price = Marked price (100 – D%)/100
Calculation:
Marked price of 12 pair of gloves = Rs. 600
Selling price of 12 pairs of gloves after discount
=> 600(100 – 10)/100
=> Rs. 540
If cost price of of 12 pair is Rs. 540 = (12 × 270)/540
=> 6 pairs
Therefore 6 pair of gloves can be bought for Rs. 270.

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Q66. Answer: (d) 303.03

Given:

Diameter if wheel,D = 210 cm = 2.1 m

Speed of car, v = 120 km/hour

Formula used:

V = (πDN)/60

V → speed, D → diameter, N → number of revolution

Calculatioon:

V = (πDN)/60

=> 120 × 5/18 = (π × 2.1 × N)/60

1 km/hour = 5/18 m/s

=> N = (120 × 5 × 60)/(18 × 2.1 × π)

=> N = 303.03

Therefore Revolution of wheel in a minute is 303.03

Q67. Answer: (c) 50

Given:

Total number of students = 100

Calculation:

Number of male students = x

So, number of female students = 100 – x

According to question

=> 100 – x = x/100 × 100

=> 100 – x = x

=> 2x = 100

=> x = 50

Therefore Number of male students are 50

Q68. Answer: (a) Rs.756

Given:

The selling price of a book, including the sales tax, is Rs.956.34

The rate of sales tax is 10%.

The shopkeeper made a profit of 15%.

Calculation:

Let the actual selling price be x

=> x + 10% x = 956.34

=> x + 10(x)/100 = 956.34

=> x + x/10 = 956.34

=> 11x/10 = 956.34

=> x = (956.34 × 10)/11

=> x = 869.4

Now let CP be 100

=> Profit % = 15%

=> SP = 100 × 115/100

=> SP = 115

=> 115 = 869.4

=> 1 = 869.4/115

=> CP = 100 × 869.4/115

=> CP = 756

Therefore The cost price of a book is Rs.756.

Shortcut TrickCP = SP/(1 + Sales tax) (1 + Profit)

CP = 956.34/(1 + .10) (1 + .15)

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CP = 756

Q69. Answer: (d) n + 5

Given:

n is a positive integer

n is divided by 7, remainder is 2

Calculation:

Let k is any integer.

=> n = 7k + 2

By trial and error method

Option 1,

=> n + 2 = 7k + 2 + 2

=> n + 2 = 7k + 4

=> When n + 2 is divided by 7, the remainder is 4.

Option 2,

=> n + 1 = 7k + 2 + 1

=> n + 1 = 7k + 3

=> When n + 1 is divided by 7, the remainder is 3.

Option 3,

=> n + 3 = 7k + 2 + 3

=> n + 3 = 7k + 5

=> When n + 3 is divided by 7, the remainder is 5

Option 4,

=> n + 5 = 7k + 2 + 5

=> n + 5 = 7k + 7

=> When n + 5 is divided by 7, the remainder is 0.

Therefore The n + 5 yields the remainder 0.

Let k is any integer.

=> n = 7k + 2

Put k = 1

=> n = 7(1) + 2

=> n = 9

=> The multiple of 7 nearest to 9 is 14

=> 14 – 9 = 5

=> 5 should be added to n

Therefore The n + 5 yields the remainder 0.

Q70. Answer: (b) 5 cm

Given:

Two circles touch each other externally,

Distance between their centres = 8 cm

Radius of 1^(st) circle = 3 cm

Formula used:

When two circles touch each other externally then the distance between their centres is given by the sum of their radii

Distance between centres = Radius of 1^(st) circle + Radius of 2^(nd) circle

Calculation:

Let ‘r’ be the radius of 2^(nd) circle

According to the question,

=> 8 = 3 + r

=> r = 8 – 3 = 5 cm

Therefore The radius of other circle is 5 cm.

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Q71. Answer: (c) 6

Given:

√(30 + √(30 + √(30 + √(30 + ... ∞))))

Calculation:

Let 'a' be the value of √(30 + √(30 + √(30 + √(30 + ... ∞))))

=> a = √(30 + √(30 + √(30 + √(30 + ... ∞))))

Squaring both sides, we get

=> a² = 30 + √(30 + √(30 + √(30 + √(30 + ... ∞))))

=> a² = 30 + a

=> a² - a - 30 = 0

=> a² - 6a + 5a - 30 = 0

=> (a - 6)(a + 5) = 0

=> a = 6, -5

a = - 5 is not possible

Therefore The value of √(30 + √(30 + √(30 + √(30 + ... ∞)))) is 6.

Q72. Answer: (d) 46 cm

Given:

The perimeter of an isosceles triangle = 125 cm

And the base = 33 cm

Concept used:

An isosceles triangle is a that has two sides of equal length.

Formula used:

P = (2a + b)

Where,

P = Perimeter, a = Two equal sides, b = Base

Calculation:

Let the length of the each sides be x cm

P = (2a + b)

=> 125 = (2x + 33)

=> (125 – 33) = 2x

=> 2x = 92

=> x = 92/2 = 46

Therefore The length of the equal sides is 46 cm.

Q73. Answer: (b) 18.46%

Given:

Number of boys = 12

Calculation:

Total Boys = (45 + 12 + 8) = 65

According to the question,

The percent of boys who got distinction = (12/65) × 100

=> 240/13 = 18.46%

Therefore The percent of boys who got distinction is 18.46%.

Q74. Answer: (a) (11 π)/6

Given

Sin x = - 1/2

Concept used

If Sin x is negative then sin lies in 3rd quadrant or 4th quadrant, according to the following details:

Calculation

Sin x = - sin (1/2)

=> Sin x = - sin (π/6)

=> Sin x = sin (2π - π/6)

=> Sin x = sin (12π - π)/6

=> Sin x = sin (11π/6)

Therefore x is 11π/6

Important Points

It is important for a candidate to remember the basic relation of conversion from degree to radian:

180° = π radians

Q75. Answer: (d) 130

Given

				TOTAL
BOYS	12	45	8	65
GIRLS	7	53	5	65

Calculation

Total strength of the class = 65 + 65 = 130

Q76. Answer: (c) 2014

The correct answer is 2014.

Key Points

• Telangana became the 29th State of India with Hyderabad as its capital on 2 June 2014.

• Chandrasekhar Rao, the chief of Telangana Rashtra Samiti (TRS) was sworn-in as the first Chief Minister of Telangana.

• The state of Telangana was formed according to the Andhra Pradesh Reorganisation Bill 2014.

• Telangana is surrounded by Maharashtra and Chhattisgarh in the North, Karnataka in the West, and Andhra Pradesh in the South and East directions.

• ESL Narasimhan was the governor at the time of the formation of the new state of Telangana.

Q77. Answer: (a) Uttar Pradesh

The correct answer is Uttar Pradesh.

Key Points

• The maximum strength of the Lok Sabha House is 550 members - 530 members to represent the States and 20 members to represent the Union Territories.

• The current strength of the Lok Sabha is 543 seats.

• Uttar Pradesh has the highest number of Lok Sabha seats i.e 80.

• Tamil Nadu has 39 Lok Sabha seats.

• Andhra Pradesh and Rajasthan have 25 Lok Sabha seats each.

Important Points

• Lok Sabha:

• Lok Sabha is the lower house of the parliament.

• Rajya Sabha is a permanent house and is not subject to dissolution while the Lok Sabha has a five-year term, and is subject to dissolution at the end of its term.

• The Lower House can be dissolved earlier by the President on the advice of the Prime Minister.

• It can also be dissolved if the President feels that no feasible government can be formed after the resignation or fall of a regime.

• The maximum strength of the House is 552 members.

• To become a member of Parliament, one should not be less than 30 years of age in the case of Rajya Sabha and not less than 25 years of age in the case of Lok Sabha

• To become a member of Lok Sabha, a candidate should have the following eligibility criteria:

• The candidate should be a citizen of India.

• The candidate should have at least 25 years of age.

• The candidate should not hold an office of profit under the Indian government or the government of any other state.

• The candidate should not be an unstable mind.

Important Points

• 104th Amendment Act, 2020 -

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• Extended the deadline for the cessation of seats for SCs and STs in the Lok Sabha and states assemblies from Seventy years to Eighty.

• Removed the reserved seats for the Anglo-Indian community in the Lok Sabha and state assemblies.

Q78. Answer: (a) New Zealand

The correct answer is New Zealand.

Key Points

• 2019 ICC World Cup was hosted by England.

• New Zealand defeated India in the semi-final of the ICC ODI Cricket World Cup 2019 by 18 runs.

• 2019 Cricket World Cup was won by England and it was their first winning title.

• Rohit Sharma emerged as the leading run-scorer in the 2019 ICC ODI World Cup.

• Australian bowler Mitchell Starc ended up as the leading wicket-taker in the 2019 ICC ODI World Cup.

Q79. Answer: (a) Anup Kumar Singh

The correct answer is Anup Kumar Singh.

• Anup Kumar Singh is the current Director General (DG) of the National Security Guard (NSG) as of February 2021.

• Anup Kumar Singh, a 1985-batch Indian Police Service officer of the Gujarat cadre, was appointed the NSG Director General in October last year.

• He was retired from this post on September 30,2020.

Key Points

• National Security Guard (NSG) is an Indian counter-terrorism unit under the Ministry of Home Affairs.

• NSG was formed on September 22, 1986, following Operation Blue Star, the Golden Temple attack, and the assassination of Indian Prime Minister Indira Gandhi, "for combating terrorist activities and protect states against internal disturbances".

• NSG motto is "Sarvatra Sarvottam Suraksha".

Q80. Answer: (d) Light pen

The correct answer is Light pen.

Key Points

• Light pen:

• Itis a pointing device that is used to select a displayed menu item or draw pictures on the monitor screen.

• It is an input device that utilizes a light-sensitive detector to select objects on a display screen.

• It allows the user to point to displayed objects or draw on the display screen in a similar way to a touchscreen.

• Use of Light pen::

• It can be used as input coordinate positions by providing necessary arrangements.

• If background color or intensity, a light pen can be used as a locator.

• It is used as a standard pick device with many graphics systems.

• It can be used as valuators

Additional Information

• Optical mark recognition (OMR):

• it is an electronic method of entering human-handled data into the system by identifying certain markings on a document.

• MICR (magnetic ink character recognition):

• It is a character-recognition technology that makes use of special magnetized ink to verify the legitimacy or originality of paper documents.

• Bar code reader:

• It is an electronic device that scanner the printed barcodes and decodes the data contained in the barcode.

Q81. Answer: (d) Sikkim

The correct answer is Sikkim.

Key Points

Monastery/Stupa	Location
Jetavana Dharmarajika Stupa Tibetan Buddhist Monastery	Uttar Pradesh
Tawang Monastery Bomdila Monastery Urgelling Monastery Kalachakra Gompa	Arunachal Pradesh

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Druk Ngawang Thubten Choling Monastery Burmese Monastery	Bihar
Rumtek Monastery Phodong Monastery Gonjang Monastery Doling monastery Rinchenpong Monastery	Sikkim

Q82. Answer: (b) Aravalli Hills

The correct answer is Aravalli Hills.

Key Points

• Aravallis:

• They are one of the oldest fold mountains of the world.

• Aravallis are aligned in north-east to the south-west direction and stretches through the states of Delhi, Haryana, Rajasthan and Gujarat.

• Aravalli is 700 kilometers-long mountain range that starts from India's western state of Gujarat.

• The Aravalli Range is an eroded stub of ancient mountains.

• The highest peak is Guru Shikhar which is elevated at 1,722 metres.

Important Points

• Fold mountains are formed when two of Earth's tectonic plates are pushed together within the earth's upper crust.

• There are two types of fold mountains: young fold mountains and Old fold mountains e.g. of the USA.

• Young Fold mountains:

• They are of recent origin.

• They are higher than the old fold mountains.

• Examples include the Rocky Mountains, Andes and Himalayas.

• Old fold mountains:

• They have formed years ago.

• They are lower than the young fold mountains.

• These have gentle slopes.

• The Ural Mountains, Aravali ranges and Appalachians are examples of old fold mountains.

• The three parallel ranges of the Himalayas longitudinal extent are:

• Himadri (Great or Inner Himalayas):

• The northernmost range is called the Himadri and extends for about 2400 km.

• Mt. Everest and Mt. Kanchenjunga are a part of these ranges.

• Himachal (Lesser Himalayas):

• It lies to the south of Himadri.

• Some famous ranges are the Pir Panjal range, Dhaula Dhar and Mahabharat ranges.

• It has some famous valleys like Kullu, Kangra and Kashmir.

• Shivalik (Outer Himalayas):

• This is the outermost range of the Himalayas.

• Shivaliks are known by different names in different areas such as Dafla, Miri, Abor and Mishmi Hills in Arunachal Pradesh.

Additional Information

• Western Ghats:

• Western Ghats range extends from river Tapti in Maharashtra in the north to Kanyakumari in the south.

• The Western Ghats are known as Sahyadri in northern Maharashtra, Sahya Parvatham in Kerala and Nilagiri Malai in Tamil Nadu.

• The Western Ghats runs through six states i.e Gujarat, Maharashtra, Goa, Karnataka, Tamil Nadu, Kerala and two Union Territories i.e Dadra & Nagar Haveli and Pondicherry.

• Anamudi in Kerala is the highest peak in the Western Ghats and is located on the Anaimalai hills.

• The Western Ghats and the Eastern Ghats are connected at Biligirirangan Hills in Karnataka.

• The meeting point of the Eastern Ghats and the Western Ghats is the Nilgiri plateau.

• The Eastern Ghats are a discontinuous range of mountains along India's eastern coast.

• The Eastern Ghats spread over the states of Odisha, Andhra Pradesh, Telangana, Karnataka and Tamil Nadu.

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Q83. Answer: (b) Clement Attlee

The correct answer is Clement Attlee.

Key Points

• Clement Attlee was the Prime Minister of Britain/UK when British Parliament passed an independence bill for India in July 1947.

• The Indian Independence Act was passed in 1947.

• The act created two new independent dominions; India and Pakistan.

• Pakistan was split into Pakistan and East Pakistan which is now Bangladesh. The Bengal and Punjab provinces were partitioned between the two new countries.

• Lord Mountbatten was the last viceroy of British India and the first Governor-General of independent India.

• Jawaharlal Nehru became India's first Prime Minister and Muhammad Ali Jinnah became Pakistan's first Governor-General and Liaquat Ali Khan its Prime Minster.

Additional Information

• Winston Churchill was the British PM who appointed the cripps mission in march 1942 to resolve the Indian political crisis in order to get the support of India for their efforts in World War II.

• Cripps Mission:

• In order to get the support of India in world war II, Cripps Mission was sent to India in 1942.

• Few proposals of this mission are:

• Dominion status to India after the war.

• Constitution-making body after the war.

• Constitution so framed would be acceptable by the British Government only if certain province desires to stay away from the Union of India.

• Any province which wouldn't accept the new constitution would have the right to sign a separate agreement with British

• Gandhi called Cripps Mission as 'A post-dated cheque drawn on a failing bank' due to the Cripps offer of Dominion Status after the war.

• The communal award was announced by Ramsay Macdonald, the British PM.

• Important features of this award are:

• The separate electorate for the Muslims, Sikhs, Anglo Indians, Indian Christians, as well as the depressed classes.

• 3 percent of seats were reserved for women.

• 71 seats in total were reserved for the depressed classes in the provincial legislature.

• Gandhi rejected it and then started fast unto death in Yervada Jail against this award.

Q84. Answer: (a) Serbia

The correct answer is Serbia.

Key Points

• ATP Cup tennis tournament was held at three venues in the Australian cities of Brisbane, Perth, and Sydney in January 2020.

• Serbia won the tournament by defeating Spain with 2–1 in the final.

• Russia was defeated by Serbia in the semi-finals with 0-3.

• Australia was defeated by Russia in the semi-finals with 0-3.

Additional Information

• ATP Cup is a men's Tennis tournament, featuring teams from 20 countries.

• The 2021 ATP Cup will be played from 2-6 February.

• The five-day tournament will take place at Melbourne Park in Rod Laver Arena and in John Cain Arena.

• The winning team gets total prize money of AU$ 22 million or the US $ 15 million.

• A player that remains undefeated throughout the tournament will earn 750 ATP ranking points while a doubles would win a maximum of 250 points.

Q85. Answer: (a) Eritrea

The correct answer is Eritrea.

Key Points

Field	Nobel Award Winners (2019)	Work Recognized
Physics	James Peebles	For theoretical discoveries in physical cosmology

Michel Mayor, Didier Queloz	For the discovery of an exoplanet orbiting a solar-type star.	
Chemistry	John B Goodenough M Stanley Whittingham Akira Yoshino	Development of lithium-ion batteries.
Physiology/ Medicine	William G. Kaelin Jr Sir Peter J. Ratcliffe Gregg L. Semenza	For their discoveries of how cells sense and adapt to oxygen availability
Economic Sciences	Abhijit Banerjee, Esther Duflo Michael Kremer	For the experimental approach to alleviating global poverty.
Peace	Abiy Ahmed Ali (Prime Minister of Ethiopia)	For his efforts to resolve the border conflict with neighboring Eritrea.

Q86. Answer: (d) Jammu and Kashmir

The correct answer is Jammu and Kashmir.

Key Points

• Dumhal folk dance:

• It is the popular folk dance of the Union Territory of Jammu and Kashmir.

• This dance is only performed by the men of the Wattal tribe of the region.

• This dance is performed on the beats of Drum and other instruments.

Important Points

States	Folk Dances
Andaman and Nicobar Islands	• Nicobari dance - Great Andamanese Dances
Arunachal Pradesh	• Peacock dance - Ponung - Chalo - Roppi - Hiirii Khaniing
Haryana	• Loor - Khera Dance - Saang dance
Jammu and Kashmir	• Kud Dance - Rouf Dance - Dumhal Dance - Hafiza Dance - Bhand Pather - Bacha Nagma

Q87. Answer: (b) Iran

The correct answer is Iran.

• Iran admits to 'unintentionally' shooting down a Ukrainian airliner, Boeing 737-800 passenger aircraft in January 2020.

• The Iranian government admitted that the airline was shot down having mistaken it for a cruise missile.

• The Boeing 737-800 airliner, flight PS752, crashed five minutes after takeoff from Tehran's Imam Khomeini airport on Jan. 8, just hours after Iran fired a barrage of missiles at U.S. targets in Iraq.

• Iran's President Hassan Rouhani took to Twitter to call the crash a "great tragedy" and "unforgivable mistake."

• The Iranian statement stressed that the "human error" occurred during very high tensions with the U.S.

Additional Information

Facts:

• Iran:

• Tehran is the capital of Iran.

• Hassan Rouhani is the current president of Iran.

• It is bordered by Turkey, Iraq, Turkmenistan, Azerbaijan, Armenia, Afghanistan, and Pakistan.

• Syria:

• Damascus is the capital of Syria:

• It is bordered by Lebanon to the southwest, the Mediterranean Sea to the west, Turkey to the north, Iraq to the east, Jordan to the south, and Israel to the southwest.

• Bashar al-Assad is the current president of Syria.

• Saudi Arabia:

• It is bordered by Iraq, Jordan, Kuwait, Oman, Qatar, United Arab Emirates, and Yemen.

• Riyadh is the capital city of Saudi Arabia.

• Mohammed bin Salman Al Saud is the Crown Prince of Saudi Arabia.

• Iraq:

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• Iraq is bordered by Turkey, Iran, Syria, Jordan, Kuwait, and Saudi Arabia.
• Baghdad is the capital of Iraq.
• Barham Salih is the current president of Iraq.

Q88. Answer: (d) India

The correct answer is India.

Key Points

• India finished the year 2019 as the top shooting nation in the world as per the International Shooting Sport Federation's (ISSF) overall rankings for 2019.
• While India leads the standings with 30 medals overall (21 gold, 6 silver, and 3 bronze), China is second with 11 gold, 15 silver, and 18 bronze medals.
• The USA is placed third with 15 medals (six gold, six silver, and three bronze).
• Russia is placed fourth with five gold, six silver and five bronze medals.

Additional Information

• The International Shooting Sport Federation(ISSF) was founded in 1907.
• It is the governing body of the Olympic Shooting events in rifle, pistol and shotgun disciplines.
• The president of ISSF is Vladimir Lisin(as of Feb 2021).
• Headquarters: Munich, Germany.

Q89. Answer: (d) Seismograph

The correct answer is Seismograph.

Key Points

• A seismograph is an instrument used to detect and record earthquakes.
• The first seismograph was developed in 1890.
• It consists of a mass attached to a fixed base and during an earthquake, the base moves and the mass does not.
• The motion of the base with respect to the mass is commonly transformed into an electrical voltage.
• The electrical voltage is recorded on paper, magnetic tape, or another recording medium.
• This record is proportional to the motion of the seismometer mass relative to the earth, but it can be mathematically converted to a record of the absolute motion of the ground.

Additional Information

• Earthquake:
• Earthquakes are caused by seismic waves that are generated due to a sudden movement in the earth's crust.
• Earthquakes may occur naturally or as a result of human activities.
• Tectonic earthquakes are generated due to the sliding of rocks along a fault plane.
• Volcanic earthquakes are caused due to violent volcanic eruptions.

Important Points

Instrument	Quantity measured
Speedometer	Speed of a vehicle
Odometer	Distance travelled by a vehicle
Richter scale	The magnitude of an earthquake
Seismograph	Detect and record earthquakes

Q90. Answer: (d) Science and Technology: Rural Development

The correct answer is Science and Technology: Rural Development.

Key Points

• Indian Science Congress Association (ISCA) is a premier scientific organization in India with its headquarters in Kolkata.
• It meets annually in the first week of January.
• 107th Indian Science Congress held at Bengaluru in January 2020.
• The Focal Theme of the 107th Indian Science Congress is Science & Technology: Rural Development.

Important Points

• The 108th Indian Science Congress will be held from 3-7 January 2023 at R.T.M. Nagpur University, Nagpur, Maharashtra.

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• The Focal Theme of the 108th Indian Science Congress is Science and Technology for Sustainable Development with Women Empowerment.

Q91. Answer: (d) RBI

The correct answer is RBI.

Key Points

• After nationalization, the banks come directly under the Banking Regulation Act 1949.

• RBI (Reserve bank of India) was the first nationalized banks in India after Indian independence.

• It was nationalized with effect from 1st January 1949 on the basis of the Reserve Bank of India (Transfer to Public Ownership) Act, 1948.

• The Reserve Bank of India was set up on the basis of the recommendations of the Hilton Young Commission.

• Shaktikanta Das was the governor of RBI.

Additional Information

• Punjab National Bank:

• The bank was founded in 1894.

• Punjab National Bank has been merged with United Bank of India and Oriental Bank of Commerce and has come into effect from April 1, 2020.

• SIDBI:

• - It was established on 2 April 1990, through an Act of Parliament.

• It is a development financial institution in India, headquartered at Lucknow.

• S Ramann is the new chairman of SIDBI.

• Industrial Finance Corporation of India (IFCI):

• It is a Non-Banking Finance Company established in 1948 as a statutory corporation.

• Emandi Sankara Rao is the CEO of IFCI.

Q92. Answer: (b) Rohit Sharma

The correct answer is Rohit Sharma.

• Rohit Sharma:

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

• Rohit Sharma has been named as the ODI cricketer of the year 2019 by the ICC.

• He was awarded with Arjuna Award for Cricket in the year 2015.

• Australia's Steve Smith has been named the ICC Men's Test Player of the Decade in 2020.

• Virat Kohli was named the ICC Male Cricketer of the Decade and also won the Men’s ODI Cricketer of the Decade award.

Additional Information

• The International Cricket Council (ICC) was founded as the Imperial Cricket Conference in 1909.

• The headquarters of ICC is located in Dubai, UAE.

• Greg Barclay is the Chairman of the International Cricket Council (ICC)

Q93. Answer: (a) Greta Thunberg

The correct answer is Greta Thunberg.

Key Points

• Greta Thunberg:

• She has been chosen as Time Magazine's 2019 Person of the Year.

• She is a Swedish environmental activist.

• She also received the 2019 Right Livelihood Award.

• She also received the 2019 International Children's Peace Prize.

• She also won the 2020 Gulbenkian Prize for Humanity.

Additional Information

• Malala Yousafzai:

• She is a Pakistani activist for female education and was the co-recipient of the 2014 Nobel Peace Prize, along with Kailash Satyarthi of India.

• Donald Trump is the 45th President of the USA.

• Joe Biden is the 46th and current president of the United States.

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• Narendra Modi:
• PM Modi was honored with the United Nations 'Champions of the Earth Award.'
• He was the Chief Minister of Gujarat from 2001 to 2014.
• He was the 14th and current Prime Minister of India since 2014.
• He was conferred with the 2018 Seoul Peace Prize.
• He was awarded the 'Legion of Merit' by U.S. President Donald Trump in 2020.

Q94. Answer: (a) Krishna

The correct answer is Krishna.

Key Points

• River Krishna:
• The river extends over the states of Andhra Pradesh, Maharashtra, and Karnataka and finally empties into Bay of Bengal.
• Krishna river originates in the Western Ghats near Mahabaleshwar.
• Ghatprabha, Malprabha, Tungabhadra, Bhima, and Musi are the few important tributaries.

Important Points

• The Indus rises near Mansarovar in Tibet and flows through India, and thereafter through Pakistan before draining into the Arabian Sea.
• Major tributaries of the Indus River are Jhelum, Chenab, Ravi, Beas, Sutlej.
• Sutlej:
• It is the longest of the five tributaries of the Indus River.
• It is sometimes known as the Red River.
• The Sutlej finally drains into the Indus in Pakistan.
• Beas:
• The Beas River rises in the Himalayas in central Himachal Pradesh, India, and meets the Satluj river at Harike in Punjab.
• Ravi:
• It is one of the five tributaries of the Indus River.
• It is a transboundary river crossing northwestern India and eastern Pakistan.

Q95. Answer: (b) Viruses

The correct answer is Viruses.

Key Points

• Common cold and influenza (flu) is caused by viruses.
• Influenza is a viral infection that attacks the respiratory system.
• The common cold is an upper respiratory tract infection caused by many different viruses.
• Rhinoviruses were shown to be major causative agents in mild upper respiratory illness (the common cold).
• Symptoms of influenza can include:
• Sudden onset of high fever.
• Headache, muscle aches and joint pain
• Cough (usually dry)
• Chills
• Sore throat
• Nasal congestion and runny nose
• Fatigue
• Stomach symptoms such as nausea, vomiting or diarrhea may occur but are more common in children than adults.

Additional Information

• Cholera, Leprosy, Tuberculosis, Plague, Syphilis and Anthrax are the few diseases caused by bacteria.
• Aspergillosis, Blastomycosis, Candidiasis are the few infections caused by Fungi.
• Malaria, Leishmaniasis, Toxoplasmosis are the few diseases caused by Protozoa.

Q96. Answer: (b) Cotton

The correct answer is Cotton.

Key Points

• Cotton is a Kharif crop. It requires 6 to 8 months to mature.

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• Cotton is a water-thirsty crop and around 6% of the water for irrigation in is used for its cultivation.

• It grows in the major parts of the country viz. Punjab, Haryana, Rajasthan, Uttar Pradesh, Madhya Pradesh, Gujarat, Maharashtra and parts of Andhra Pradesh & Karnataka.

• The irrigated crop is sown from March-May and the rain fed crop in June-July with the commencement of the monsoon.

• Kharif Season:

• Kharif crops also are known as monsoon crops as they are cultivated in the monsoon season.

• These crops are sown at the beginning of the rainy season.

• Rice, maize, bajra, ragi, sorghum, soybean, groundnut, cotton, etc. are all Kharif types of crops.

Additional Information

• Zaid Season:

• It is a short season between Kharif and Rabi season.

• The crops grown during this season are known as Zaid crops.

• Pumpkin, cucumber, watermelon, bitter gourd, etc. are all zaid types of crops.

• Rabi Season:

• These are the crops that are sown at the end of the monsoon season or at the beginning of the winter season.

• These crops also are known as winter crops.

• Wheat, Mustard, Peas, Pulses, Barley, etc. are all Rabi types of crops.

Q97. Answer: (b) It is the largest inland salt lake in India.

The correct answer is It is the largest inland salt lake in India.

Key Points

• Sambhar Lake:

• It is India's largest inland saltwater lake located in Rajasthan.

• It is India's largest inland salt lake and is spread over 90 Sq Kms.

• This inland lake receives water from five rivers, namely Samaod, Khari, Mantha, Khandela, Medtha, and Roopangar

• The lake touches three districts of Rajasthan i.e. Jaipur, Ajmer, and Nagaur.

• The lake is surrounded on all sides by the Aravalli hills.

• It was given the status of a Ramsar Site (recognized wetland of international importance) in March 1990.

• During peak summers (dry time), the depth measures as low as 60 cm (24 in) but during the monsoons, it goes up to 3 m (10 ft).

Q98. Answer: (c) Hertz (Hz)

The correct answer is Hertz (Hz).

Key Points

• Central Processing Unit (CPU) performs the main function of information processing.

• The Central Processing Unit's (CPU) purpose is to carry out program instructions.

• Each CPU is designed to execute a specific group of instructions.

• It performs the basic arithmetic, logical, control and input/output (I/O) operations specified by the instructions.

• It is called the brain of the computer.

• The CPU is made up of three main components, the control unit, the immediate access store and the arithmetic and logic unit.

• The speed of a CPU is measured in hertz (Hz).

• The clock speed is measured in cycles per second, and one cycle per second is known as 1 hertz.

Additional Information

• 1 Gigabyte (GB) = 1024 Megabytes (MB)

• 1 Kilobyte=1024 bytes

• 1 Terabyte is equal to 1024 gigabytes

Q99. Answer: (d) either house of the parliament

The correct answer is either house of the parliament.

Key Points

• The President may be removed from office before the completion of this term through impeachment for violating the Constitution of India by the Parliament of India.

• The process of impeachment of the President of India can be initiated in either house of the parliament and such resolution has to be passed by a majority of not less than two-thirds of the total membership of the House.

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• Article 61 of the Indian Constitution provides the Procedure for impeachment of the President Of India.
• President is elected for a term of five years.

Important Points

• Qualifications of the President are:
• He should be an Indian Citizen
• His age should be a minimum of 35 years
• He should qualify the conditions to be elected as a member of the Lok Sabha
• He should not hold any office of profit under the central government, state government, or any public authority.
• The President is elected indirectly by members of an electoral college consisting of:
• the elected members of both the Houses of Parliament;
• the elected members of the legislative assemblies of the states;
• the elected members of the legislative assemblies of the Union Territories of Delhi and Puducherry.
• The election is held in accordance with the system of proportional representation by means of the single transferable vote.

Q100. Answer: (a) Farm equipment manufacturing

The correct answer is Farm equipment manufacturing.

Key Points

• Secondary Sector:
• It includes construction, manufacturing, and processing.
• Farm equipment manufacturing can be classified as a part of this sector of an economy.
• Examples of the secondary sector include turning metals into tools and automobiles, Refining petroleum into gasoline, and energy production, etc.
• Primary Sector:
• It includes the extraction of raw materials.
• It includes agricultural and allied activities.
• Examples of the primary sector include Farming, Fishing, Coal mining, Oil extraction, Diamond mining, etc.
• Tertiary Sector:
• - it includes commercial services.
• Examples of the Tertiary sector include Consulting services, Restaurants, School teachers, Tourism, etc.
• Quaternary Sector:
• It is related to ICT and research development.
• Examples of the Quaternary sector include research and development, data processing, financial services, etc.

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