SSC CHSL Previous Paper 29 (Held On: 20 Oct 2020 Shift 1) (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 correct passive form of the given sentence.

Gulliver easily pulled all the warships of the enemy after him

(a) All the warships of the enemy had been easily pulled by Gulliver after him.
(b) All the warships of the enemy were easily pulled by Gulliver after him.
(c) All the warships of the enemy were being easily pulled by Gulliver after him.
(d) All the warships of Gulliver were easily pulled by the enemy after him.

Q2. Directions: Select the INCORRECTLY spelt word.

(a) Gallop
(b) Gallary
(c) Galley
(d) Gallant

Q3. Direction: Given below is a sentence with the underlined word followed by four words. Select the option that is opposite in meaning to the underlined word and mark your response accordingly.

The two presidents have had candid talks about the current crisis.

(a) Truthful
(b) Frank
(c) Genuine
(d) Devious

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

The order was quickly _____ in the area after the scuffle between the two groups.

(a) rebuilt
(b) repaired
(c) restored
(d) recovered

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.

During organized tours, tourists can visit a former Nazi compound 40 kilometers _(1)_ Berlin called the ‘Forbidden City.' Twenty thousand people _(2)_ here every year to learn about Nazi military history. The Nazis _(3)_ militarily active at the compound, _(4)_ was kept secret in a forest and behind a fence. The Nazis _(5)_ much of World War II from here.

Q5. Select the most appropriate option for blank number 1.

(a) into
(b) in
(c) at

(d) from

Q6. Select the most appropriate option for blank number 2.

(a) watch
(b) call
(c) roam
(d) visit

Q7. Select the most appropriate option for blank number 3.

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

Q8. Select the most appropriate option for blank number 4.

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

Q9. Select the most appropriate option for blank number 5.

(a) planned
(b) fought
(c) started
(d) carried

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

Look after

(a) Take care of
(b) Resemble
(c) Scold
(d) Search for

Q11. Directions: Select the most appropriate meaning of the given idiom.

Make a beeline

(a) Go straight to
(b) Be crazy
(c) Stand in a queue
(d) Remain busy

Q12. Directions: Select the INCORRECTLY spelt word.

(a) Serious
(b) Curious
(c) Gorgeous
(d) Ambiteous

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

A ruler with total power over a country, typically one who has obtained control by force

(a) Democrat
(b) Dictator
(c) Protector
(d) Traitor

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

The publics are not satisfied with the new act.

(a) The publics are
(b) not satisfied
(c) new act
(d) with the

Q15. Directions: Select the most appropriate synonym of the given word.

RECONCILE

(a) Refuse
(b) Resolve
(c) Scatter
(d) Agitate

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

I said to Kirti, "These plants will take about two months to flower."

(a) I told Kirti that those plants will be taking about two months to flower.
(b) I told Kirti that those plants would take about two months to flower
(c) I told Kirti that those plants take about two month to flower
(d) I told Kirti that these plants will take about two months to flower

Q17. Directions: Select the most appropriate synonym of the given word.

SALVAGE

(a) Save
(b) Hurt
(c) Lose
(d) Waste

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

CONVENIENCE

(a) Enjoyment
(b) Assistance
(c) Hindrance
(d) Satisfaction

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

A. The cable was thick as packthread, and the bars were the size of knitting needles.

B. Then I made fifty hooks by twisting three bars together at a time.

C. I ordered a great quantity of strong cable and bars of iron.

D. I twisted the cables together and made fifty strong cords.

(a) CABD
(b) ADCB
(c) CADB
(d) ABDC

Q20. Directions: Select the word which means the same as the group of words given.

Flesh eating animal

(a) Herbivore
(b) Carnivore
(c) Insectivore
(d) Omnivore

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Q21. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

After switching off the light, he went off to sleep.

(a) switching off a light
(b) he has switched off the light
(c) being switched off the light
(d) No improvement

Q22. Directions: Rearrange the given para jumbled sentences in the correct order.

A. In December 2019, Typhoon Kammuri came to the Philippines.

B. They closed schools and evacuated hundreds of thousands of people from their homes.

C. Officials closed the international airport in the capital city of Manila for 12 hours.

D. It flooded streets and damaged many houses and power lines.

(a) CBAD
(b) ADCB
(c) ABCD
(d) CBDA

Q23. Directions: In the given sentence identify the segment which contains a grammatical error.

When the boys were playing the match, it suddenly starts raining.

(a) When the boys
(b) it suddenly
(c) starts raining
(d) were playing the match

Q24. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

While my parents talked to the visitor, I made tea in the kitchen.

(a) parents have talked
(b) parents are talking
(c) parents were talking
(d) No improvement

Q25. Directions: Select the most appropriate word to fill in the blank in the given sentence.

He ____ his studies even after leaving college and finally got a Ph.D. degree.

(a) pursued
(b) carried
(c) persisted
(d) sought

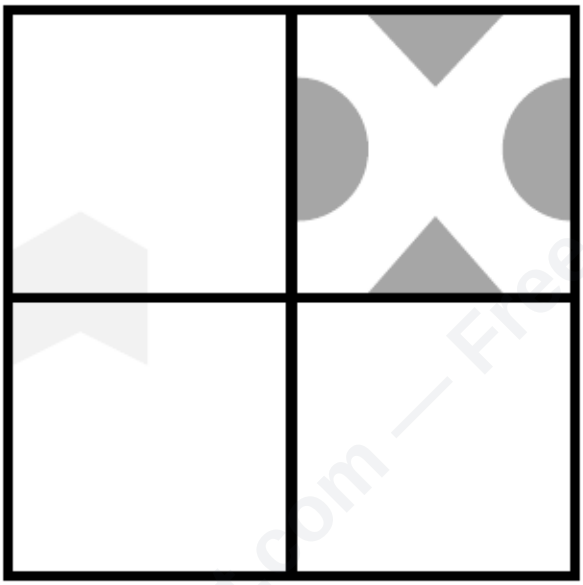
GENERAL INTELLIGENCE

Q26. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

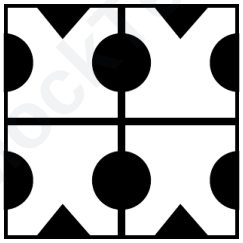
(a) Iodine
(b) Bromine
(c) Fluorine
(d) Iron

Q27. A paper is folded and cut as shown in the following figure. How will this paper look when unfolded?

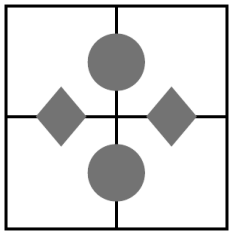
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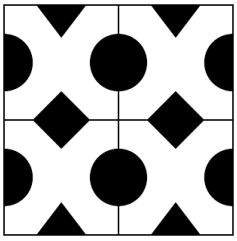
(a)



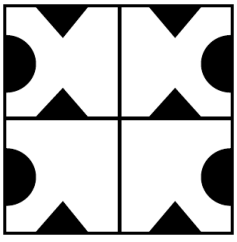
(b)



(c)



(d)



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Q28. A and B are the brothers of C. B is the son of D and E. D is the daughter of F. P is the father-in-law of E. Q is the son of F, What is the relationship of A to P?

(a) Grandson
(b) Son
(c) Daughter
(d) Father

Q29. Study the given pattern carefully and select the letter that can replace the question mark (?) in it.



(a) J
(b) K
(c) S
(d) R

Q30. Which of the following options is NOT an example of a number tried with the following properties?

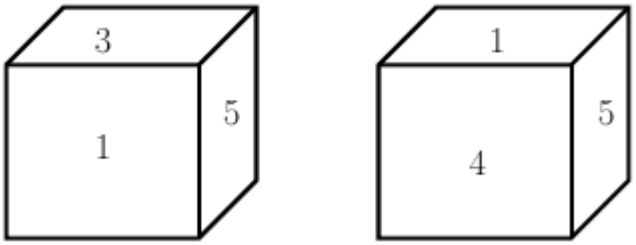
1. Sum of the digits of the third number is twice the sum of the digits of the first number.
2. Sum of the digits of the second number is thrice the sum of the digits of the first number.

(a) (201, 702, 303)
(b) (400, 660, 800)
(c) (200, 600, 300)
(d) (111, 207, 222)

Q31. Select the correct equation when the signs '+' and 'x' and the numbers '4' and '8' are interchanged.

(a) 12 × 4 + 8 = 34
(b) 6 + 8 × 4 = 38
(c) 2 × 4 + 8 = 34
(d) 4 + 8 × 2 = 32

Q32. Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having '4'.



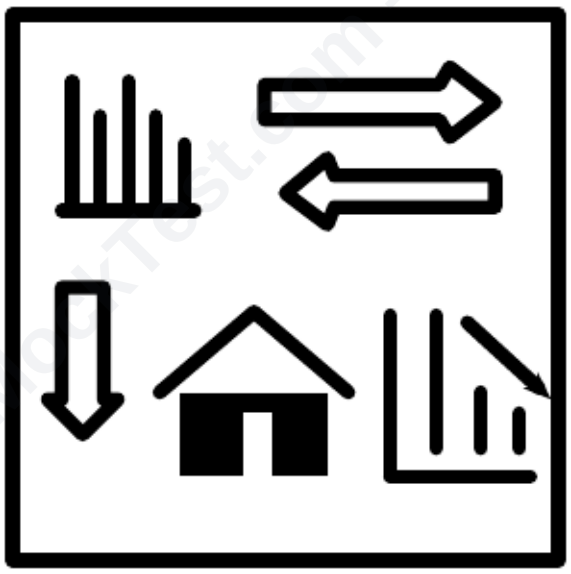
(a) 1

(b) 3
(c) 6
(d) 2

Q33. Select the option that is related to the third term in the same way as the second term is related to the first term.
Malaria : Parasite :: Stomach ulcers : ?

(a) Insects
(b) Bacteria
(c) Parasites
(d) Protozoa

Q34. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



(a)



(b)

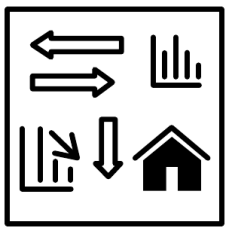


(c)

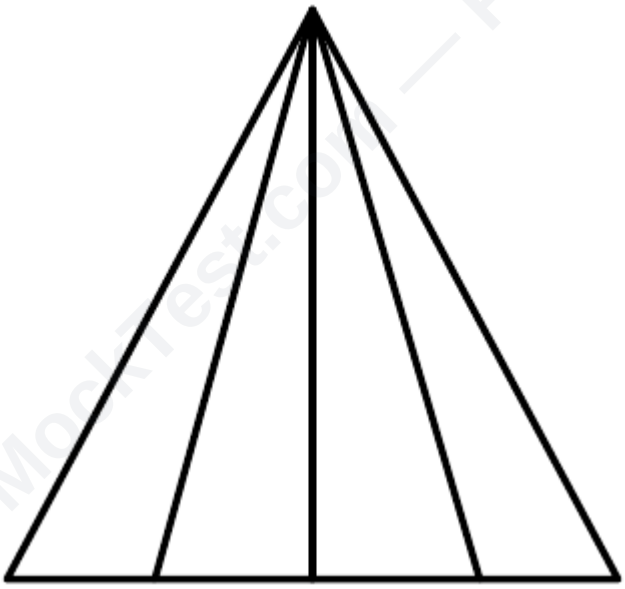


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(d)



Q35. Find the number of triangles in the following figure.



(a) 14
(b) 12
(c) 10
(d) 8

Q36. In a certain code language, PARK is coded as 6739, ROAD is coded as 3574, POND is coded as 6584 and LANE is coded as 2781. How will LORD be coded as in that language ?

(a) 2534
(b) 7432
(c) 5213
(d) 5304

Q37. In a certain code language, VICTORY is written as XGERQPA. How will KINDLE be written as in that language ?

(a) MGPBNC
(b) BEDRVH
(c) IKLFJG
(d) SOWNEQ

Q38. Select the option that is related to the third number in the same way as the second number is related to the first number.

29 : 838 :: 14 : ?

(a) 199
(b) 196
(c) 195
(d) 193

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Q39. 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) CL
(b) DP
(c) ET
(d) FX

Q40. Select the letter-cluster that can replace the question mark (?) in the following series.

BDF, DHL, FLR, ?

(a) HPX
(b) IQY
(c) HPY
(d) HOX

Q41. 'Myopia' is related to 'Eye' in the same way as 'Pyorrhea' is related to' _____'.

(a) Lung
(b) Gums
(c) Brain
(d) Stomach

Q42. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

4 (15) 1; 7 (22) 3; ? (57) 4

(a) 16
(b) 11
(c) 14
(d) 12

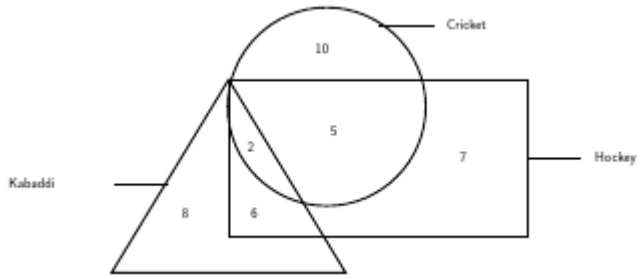
Q43. Identify the number that does NOT belong to the following series.

1, 4, 9, 15, 25, 36

(a) 4
(b) 9
(c) 15
(d) 25

Q44. Observe the following diagram and answer the question.

Find the number of students who play any two of the three sports.



(a) 9
(b) 15
(c) 11
(d) 13

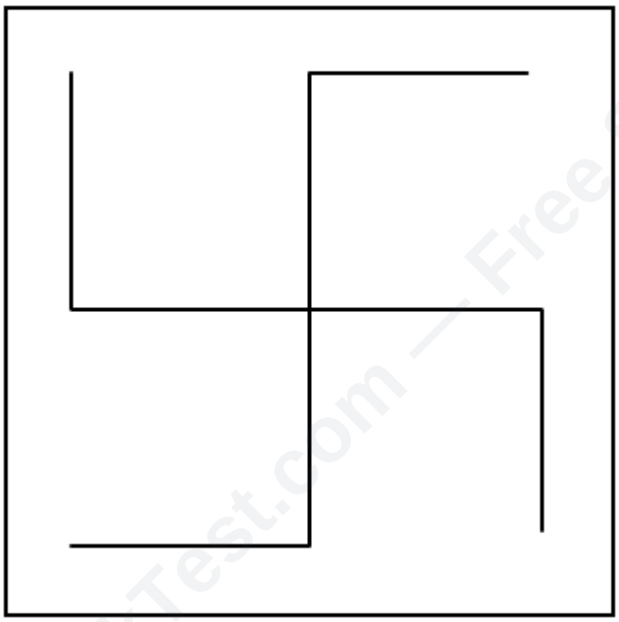
Q45. Four number triads have been given, out of which three are alike in some manner and one is different. Select the number triad that is different from the rest.

(a) (273, 546, 819)
(b) (291, 438, 657)
(c) (326, 654, 981)

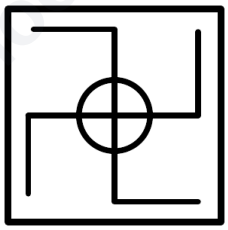
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(d) (192, 384, 576)

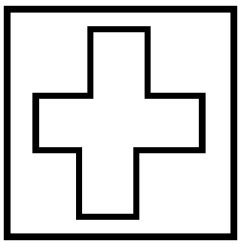
Q46. Select the correct option in which the given figure is embedded. (Rotation is not allowed)



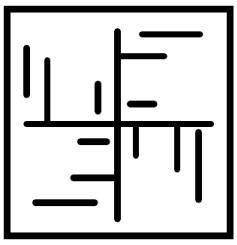
(a)



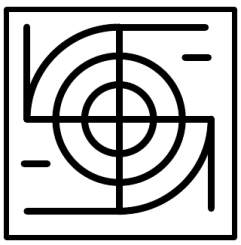
(b)



(c)



(d)



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Q47. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true. even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. Most teachers are women.

2. Some women are managers.

Conclusions:

I. Some managers are women.

II. Some teachers are managers.

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

Q48. Select the number that can replace the question mark (?) in the following series.

6, 10, 18, 34, ?

(a) 68
(b) 64
(c) 66
(d) 70

Q49. While writing all the natural numbers from 1 to 100, how many times do we write 6 ?

(a) 20
(b) 18
(c) 21
(d) 19

Q50. Select the correct mirror image of the given figure when the mirror is placed on the right side of the figure.

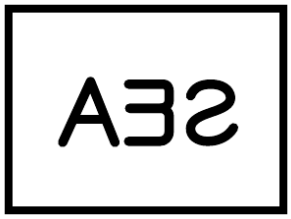


(a)



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(b)



(c)

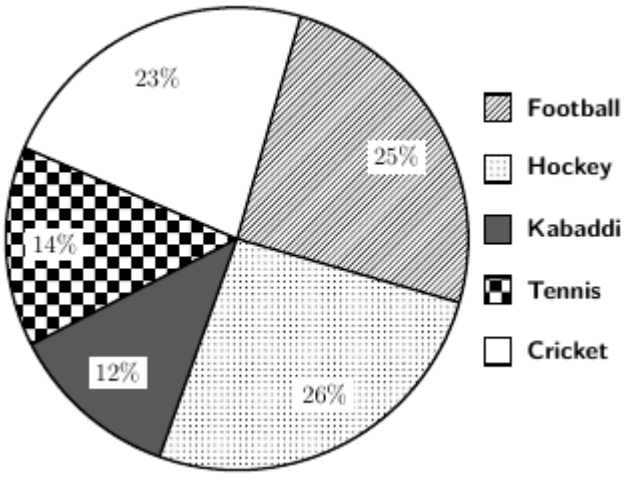


(d)



QUANTITATIVE APTITUDE

Q51. The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800.



If 24 students playing cricket are shifted to Kabaddi, then find the new ratio of the number of students in Cricket to those in Kabaddi.

(a) 31 : 18
(b) 30 : 17
(c) 31 : 16
(d) 30 : 13

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Q52. Malti bought a TV for Rs. 8,800 including GST at 10%. What is the original cost of the TV ?

(a) Rs. 8,800
(b) Rs. 8,000
(c) Rs. 7,920
(d) Rs. 9,600

Q53. If $x^3 + y^3 = 16$ and $x + y = 4$, then the value of x^4 + y^4 is:

(a) 48
(b) 32
(c) 64
(d) 30

Q54. If $4/3(x^2 + 1/(x^2)) = 110\ 2/3$ find $1/9(x^3 - 1/(x^3))$ where $x > 0$.

(a) 74
(b) 76
(c) 84
(d) 85

Q55. A is a point at a distance 26 cm from the centre O of a circle of radius 10 cm. AP and AQ are the tangents to the circle at the point of contacts P and Q. If a tangent BC is drawn at a point R lying on the minor arc PQ to intersect AP at B and AQ at C, then the perimeter of ΔABC is:

(a) 48 cm
(b) 46 cm
(c) 42 cm
(d) 40 cm

Q56. Evaluate: [7 + 7 × (7 + 7 ÷ 7)] + 7 ÷ 7.

(a) 10
(b) 64
(c) 5
(d) 63

Q57. ABC and BDE are two equilateral triangles such that D is the mid-point of BC. If the area of triangle ABC is 136 cm^2, then the area of triangle BDE is equal to:

(a) 36 cm^2
(b) 38 cm^2
(c) 24 cm^2
(d) 34 cm^2

Q58. If $\cos 3\theta = \sin(\theta - 34°)$, then the value of θ as an acute angle is:

(a) 56°
(b) 17°
(c) 31°
(d) 34°

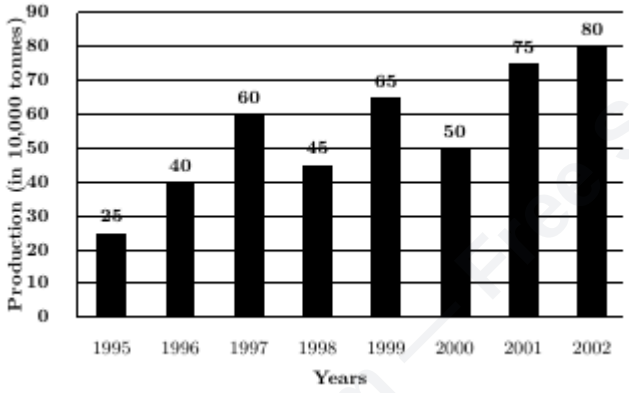
Q59. Rahul and Mithun travel a distance of 30 km. The sum of their speeds is 70 km/h and the total time taken by both to travel the distance is 2 hours 6 minutes. The difference between their speeds is:

(a) 35 km/h
(b) 20 km/h
(c) 25 km/h
(d) 30 km/h

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Q60. Study the given bar chart and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years



What was the approximate percentage increase in the production of fertilizers from 1998 to 1999 ?

(a) 44.4%
(b) 50%
(c) 40%
(d) 48.4%

Q61. If $\sqrt{3}\cos\theta = \sin\theta$, then the value of $(4\sin^2\theta - 5\cos\theta)/(3\cos\theta + 1)$ is

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

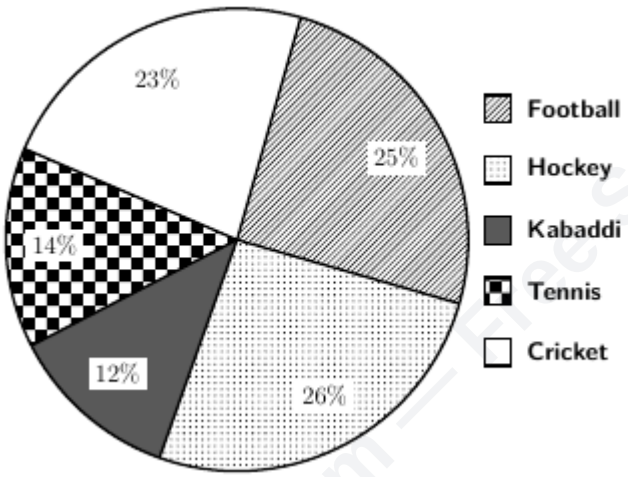
Q62. In an isosceles triangle ABC with AB = AC and AD is perpendicular to BC, if AD = 6 cm and the perimeter of ΔABC is 36 cm, then the area of ΔABC is:

(a) 54 cm^2
(b) 64 cm^2
(c) 45 cm^2
(d) 48 cm^2

Q63. An article was sold at a loss of 12%. If it was sold for Rs. 630 more, then there would have been a gain of 6%. Find the cost price of the article.

(a) Rs. 3,500
(b) Rs. 2,800
(c) Rs. 2,500
(d) Rs. 3,000

Q64. The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800.



What is the average number of students enrolled in Hockey and Tennis together ?

(a) 560
(b) 580
(c) 540
(d) 460

Q65. If the difference between the compound interest and simple interest on a certain sum of money for three years at 10% p.a. is Rs. 558, then the sum is:

(a) Rs. 18,500
(b) Rs. 15,000
(c) Rs. 16,000
(d) Rs. 18,000

Q66. The salaries of Vipin and Dinesh are in the ratio 5 : 8. If the salary of each is increased by Rs. 4,800. then new ratio becomes 7 : 10. What is Vipin's salary ?

(a) Rs. 13,000
(b) Rs. 12,000
(c) Rs. 12,500
(d) Rs. 10,000

Q67. If p + 1/p=112, find (p - 112)^(15)+1/(p^(15))

(a) 1
(b) 15
(c) 10
(d) 0

Q68. If 4M37094267N is divisible by both 8 and 11, where M and N are single digit integers, then the values of M and N are:

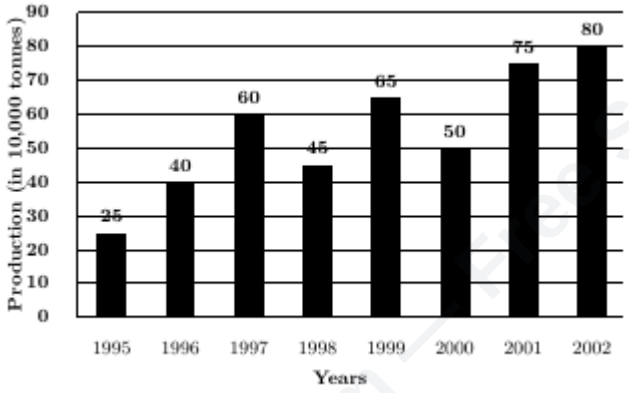
(a) M = 5, N = 6
(b) M = 5, N = 4
(c) M = 5, N = 2
(d) M = 2, N = 5

Q69. The average of nine 2 digit numbers is decreased by 6 when the digits of one of the 2 digit numbers is interchanged. Find the difference between the digits of that number.

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

Q70. Study the given bar chart and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years



The average production in 2000 and 2001 was less than the average production of which of the following pairs of years ?

(a) 2001 and 2002
(b) 1997 and 1998
(c) 1999 and 2000
(d) 1996 and 1997

Q71. The difference of two positive numbers is 1020. If 7.6% of the greater number is 12.4% of the smaller number, then the sum of the two numbers is equal to:

(a) 3250
(b) 4520
(c) 3520
(d) 4250

Q72. ABC is a right angled triangle, right angled at A. A circle is inscribed in it. The lengths of two sides containing the right angle are 48 cm and 14 cm. The radius of the inscribed circle is:

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

Q73. If 3.96 cubic dm of lead is to be drawn in to a cylindrical wire of diameter 0.6 cm, then the length of the wire (in metres), is:

(a) 140 m
(b) 120 m
(c) 130 m
(d) 125 m

Q74. If $x\sin^3\theta + y\cos^3\theta = \sin\theta\cos\theta$ and $x\sin\theta = y\cos\theta$, then the value of $x^2 + y^2$ is:

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

Q75. A and B together can complete a piece of work in 15 days. B and C together can do it in 24 days. If A is twice as good a workman as C, then in how many days can B alone complete the work ?

(a) 60 days
(b) 40 days
(c) 52 days
(d) 45 days

GENERAL AWARENESS

Q76. On which date International Day of Biological Diversity is celebrated ?

(a) 20^(th) May
(b) 22^(nd) June
(c) 22^(nd) May
(d) 17^(th) May

Q77. Pasi Kongki is folk dance of which state ?

(a) Goa
(b) Haryana
(c) Kerala
(d) Arunachal Pradesh

Q78. Who among the following drafted Article 370 of the Constitution of India?

(a) Jawaharlal Nehru
(b) Raghubar Das
(c) Gopalaswami Ayyangar
(d) B. R Ambedkar

Q79. Who proposed Wardha Scheme of Basic Education ?

(a) Jawaharlal Nehru
(b) Sardar Vallabhbhai Patel
(c) Mahatma Gandhi
(d) Bal Gangadhar Tilak

Q80. Which is the source of Krishna river ?

(a) Amarkantak
(b) Tala
(c) Mahabaleshwar
(d) Multai

Q81. Which of the following observations DOES NOT help in determining whether a chemical reaction has taken place ?

(a) Change in state
(b) Evolution of a gas
(c) Change in height
(d) Change in colour

Q82. Former Finance Minister Arun Jaitley passed away in which month of 2019 ?

(a) June
(b) May
(c) August
(d) October

Q83. Which of the following is the base year of a new WPI series effective April 2017 ?

(a) 2011-12
(b) 2013-14
(c) 2010-11
(d) 2012-13

Q84. Who is the first IPS officer to be honoured with Tenzing Norgay National Adventure Award ?

(a) Aparna Kumar
(b) Sanjukta Parashar
(c) Roopa Moudgil
(d) R Sreelekha

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Q85. Who is the first Indian American to become Governor of State of USA ?

(a) Shankara Kurup
(b) Bobby Jindal
(c) John Tyler
(d) Bill Clinton

Q86. Who is the author of the Ben-Hur: A Tale of the Christ ?

(a) Jules Verne
(b) Ben Jonson
(c) Lew Wallace
(d) Lewis Carroll

Q87. Which state does not share its boundary with Myanmar ?

(a) Arunachal Pradesh
(b) Mizoram
(c) Manipur
(d) Sikkim

Q88. Which Article of the Constitution deals with formation of New States?

(a) Article 3
(b) Article 5
(c) Article 4
(d) Article 1

Q89. When was the Human Development Report first published?

(a) 1990
(b) 1980
(c) 2000
(d) 1981

Q90. 'Khuang' is a traditional musical instrument of which state?

(a) Assam
(b) Mizoram
(c) Jharkhand
(d) West Bengal

Q91. Which of the following is the basic SI unit of thermodynamic temperature?

(a) Kelvin
(b) Mole
(c) Metre
(d) Candela

Q92. Which of the following sites of Indus valley civilization is not on the bank of river Indus ?

(a) Chanhudaro
(b) Mohenjodaro
(c) Ropar
(d) Kot-Diji

Q93. Who had proposed the motto of Olympics ?

(a) Didon
(b) Moon Jae-in
(c) Pierre de Coubertin
(d) Hirohito

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Q94. Related area of Golden Revolution is:

(a) Oilseeds
(b) Fish
(c) Eggs
(d) Production of honey and horticulture

Q95. Which of the following is a group of bacteria found in human intestines, whose presence in water indicates contamination by disease-causing microorganisms ?

(a) Pseudomonas
(b) Coliform
(c) Clostridium
(d) Streptococcus

Q96. Who among the following won the World Badminton championship title in 2019 ?

(a) Tai Tzu Ying
(b) Carolina Masin
(c) Nazomi O Kuhara
(d) P.V Sindhu

Q97. Which Article of the Constitution of India states the directive principles of state policy on 'promotion of international peace and security'?

(a) Article 51
(b) Article 69
(c) Article 62
(d) Article 49

Q98. Transistors belong to which of the following generation of the computers ?

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

Q99. Which of the following is not a soft copy devices ?

(a) Plotter
(b) Projector
(c) Monitor
(d) Speaker

Q100. Which state in India was the first to introduce the 'Mid-day Meal Scheme' for school children ?

(a) Tamil Nadu
(b) Maharashtra
(c) Gujarat
(d) Kerala

ANSWER KEY

1	b	2	b	3	d	4	c	5	d	6	d	7	b	8	a	9	a	10	a
11	a	12	d	13	b	14	a	15	b	16	b	17	a	18	c	19	c	20	b
21	d	22	b	23	c	24	c	25	a	26	d	27	c	28	a	29	a	30	c
31	c	32	b	33	b	34	c	35	c	36	a	37	a	38	d	39	c	40	a
41	b	42	b	43	c	44	c	45	c	46	d	47	b	48	c	49	a	50	b
51	a	52	b	53	b	54	c	55	a	56	b	57	d	58	c	59	d	60	a
61	b	62	d	63	a	64	a	65	d	66	b	67	d	68	c	69	a	70	a

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71	d	72	c	73	a	74	d	75	a	76	c	77	d	78	c	79	c	80	c
81	c	82	c	83	a	84	a	85	b	86	c	87	d	88	a	89	a	90	b
91	a	92	c	93	c	94	d	95	b	96	d	97	a	98	d	99	a	100	a

SOLUTIONS

Q1. Answer: (b) All the warships of the enemy were easily pulled by Gulliver after him.

The correct answer is 'All the warships of the enemy were easily pulled by Gulliver after him'.

Key Points

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

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

• The given sentence is in the active voice and 'Gulliver' is the subject and "all the warships of the enemy" is the object.

• When we convert this sentence into a passive voice, the subject 'Guliver' of the active voice becomes the object, the object "all the warships of the enemy" becomes the subject.

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

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

Hence, the correct answer is option 2*.*

Additional Information

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

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

Q2. Answer: (b) Gallary

The correct answer is 'Gallary'.

Key Points

• Let us explore the options:-

• 'Gallop' means to go at a pace faster than a walk.

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

• The correct spelling is 'Gallery' and it is a building or part of a building in which objects of interest are displayed.

• 'Galley' is a long low ship used for war and trading especially in the Mediterranean Sea from the Middle Ages to the 19th century.

• 'Gallant' means (of a person or their behaviour) brave; heroic.

Hence, the correct answer is option 2.

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Additional Information

• Example of 'Gallery' in a sentence:

• The gallery hosts various exhibitions and a permanent collection.

Q3. Answer: (d) Devious

The correct answer is 'Devious'.

Key Points

• The word 'Candid' means truthful and straightforward.

• The antonyms of the word 'Candid' are "devious, diplomatic, uncandid".

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

• The word 'Devious' means clever at attaining one's ends by indirect and often deceptive means.

Hence, the correct answer is option 4. Let's see the meaning of other given options:-

WORDS	MEANING
Truthful	telling or expressing the truth; honest
Frank	open, sincere, or undisguised
Genuine	truly what something is said to be; authentic

Additional Information

• The synonyms of the word 'Candid' are "frank, genuine, truthful".

• Example of 'Candid' in a sentence:

• One must be absolutely honest and candid.

Q4. Answer: (c) restored

The correct answer is 'restored'.

Key Points

• The given sentence is talking about something that happened with the order after the scuffle.

• The use of the word 'scuffle' in the sentence indicates a physical dispute between the two groups.

• Therefore, the most appropriate word to be filled in the blank is 'restored'.

• 'Restored' means to bring back someone or something to a former condition, place, or position.

• Example: The clock was restored to its original condition.

Hence, the correct answer is option 3.

Complete Sentence: The order was quickly restored in the area after the scuffle between the two groups.

Additional Information

• Let us explore the other options:

• 'Rebuilt' means to build something again after it has been damaged or destroyed.

• 'Repaired' means to restore something damaged, faulty, or worn to a good condition.

• 'Recovered' means to find or regain possession of something stolen or lost.

Q5. Answer: (d) from

The correct answer is 'from'.

Key Points

• The given sentence is talking about the visit to a Nazi compound 40 kilometers away in relation to Berlin.

• The use of the word 'kilometers' in the sentence indicates distance.

• Therefore, the most appropriate word to be filled in the blank is 'from'.

• 'From' is used for saying how far away something is in relation to something else.

• Example: We live a few kilometers from the city.

Hence, the correct answer is option 4.

Complete Sentence: During organized tours, tourists can visit a former Nazi compound 40 kilometers from Berlin called the ‘Forbidden City.

Additional Information

• Let us explore the other options:

• 'Into' is used for showing movement.

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• 'In' is used for showing where someone or something is.
• 'At' is used for stating where someone or something is.

Q6. Answer: (d) visit

The correct answer is 'visit'.

Key Points

• The given sentence is talking about people learning about Nazi military history at a particular place.
• The use of the word 'here' in the sentence indicates in, at, or to this place or position.
• Therefore, the most appropriate word to be filled in the blank is 'visit'.
• 'Visit' means an act of going to see a person or place as a guest, tourist, etc.
• Example: They used to visit her grave twice a year.

Hence, the correct answer is option 4.

Complete Sentence: Twenty thousand people visit here every year to learn about Nazi military history.

Additional Information

• Let us explore the other options:
• 'Watch' means to look at or observe attentively over a period of time.
• 'Call' means a visit or journey made by a doctor or other professional in response to a request for help, especially in an emergency situation.
• 'Roam' means to move about or travel aimlessly or unsystematically, especially over a wide area.

Q7. Answer: (b) were

The correct answer is 'were'.

Key Points

• The given sentence is talking about the activeness of the Nazis.
• The use of the plural noun 'Nazis' in the sentence indicates the use of the second person past plural verb.
• Therefore, the most appropriate word to be filled in the blank is 'were'.
• 'Were' is the second person singular past, plural past, and past subjunctive of 'be'.
• Example: They were brought up against unexpected delays.

Hence, the correct answer is option 2.

Complete Sentence: The Nazis were militarily active at the compound

Additional Information

• Let us explore the other options:
• 'Had' means to possess, own, or hold.
• 'Was' is the first and third-person singular past of 'be'.
• 'Are' is the second person singular present and first, second, third person plural present of 'be'.

Q8. Answer: (a) which

The correct answer is 'which'.

Key Points

• The given sentence is talking about the compound.
• The use of the word 'kept' in the sentence indicates having or retaining possession of.
• Therefore, the most appropriate word to be filled in the blank is 'which'.
• 'Which' is used for referring to something previously mentioned when introducing a clause giving further information.
• Example: True friendship is like sound health, the value of which is seldom known until it is lost.

Hence, the correct answer is option 1.

Complete Sentence: The Nazis were militarily active at the compound, which was kept secret in a forest and behind a fence.

Additional Information

• Let us explore the other options:
• 'What' is used for referring to the whole of an amount whatever.
• 'Who' is used to introduce a clause giving further information about a person or people previously mentioned.
• 'Whom' is used instead of ‘who’ as the object of a verb or preposition.

Q9. Answer: (a) planned

The correct answer is 'planned'.

Key Points

• The given sentence is talking about the Nazis doing something much during World War II.

• The use of the word 'World War' in the sentence indicates a war involving many large nations in all different parts of the world.

• Therefore, the most appropriate word to be filled in the blank is 'planned'.

• 'Planned' means to decide on and make arrangements for in advance.

• Example: The army planned to attack enemy arsenals.

Hence, the correct answer is option 1.

Complete Sentence: The Nazis planned much of World War II from here.

Additional Information

• Let us explore the other options:

• 'Fought' means to engage in a war or battle.

• 'Started' means to cause or enable someone or something to begin doing or pursuing something.

• 'Carried' means to support and move someone or something.

Q10. Answer: (a) Take care of

The correct answer is 'Take care of.'

Key Points

• Given Idiom: Look after means to take care of someone or something.

• Example: I need someone dependable to look after the children while I'm at work.

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

Hence, the correct answer is option 1.

Mistake Points

• We may think from the phrase "Look after" that it is all about looking beyond something, but the correct answer is option 1. So be careful while dealing with such questions.

Additional Information

• The first expression of this phrase dates from the second half of the 1300s, the second from the mid-1900s, and the third from the early 1700s.

Q11. Answer: (a) Go straight to

The correct answer is 'Go straight to.'

Key Points

• Given Idiom: Make a beeline means to go straight to somebody or something.

• Example: She made a beeline for the refreshments.

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

Hence, the correct answer is option 1.

Mistake Points

• We may think from the phrase "Make a beeline" that it is all about standing in a queue, but the correct answer is option 1. So be careful while dealing with such questions.

Additional Information

• This phrase is based on the assumption that a bee will take the shortest, most direct route back to the hive, in effect a straight line. It appeared in the Massachusetts Spy on November 24, 1830.

Q12. Answer: (d) Ambiteous

The correct answer is 'Ambiteous'.

Key Points

• Let us explore the options:-

• 'Serious' means demanding or characterized by careful consideration or application.

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

• 'Gorgeous' means beautiful; very attractive.

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

• The correct spelling is 'Ambitious' and it means having or showing a strong desire and determination to succeed.

Hence, the correct answer is option 4.

Additional Information

• Example of 'Ambitious' in a sentence:

• Only ambitious students get the best marks.

Q13. Answer: (b) Dictator

The solution is in Hindi. Read it online.

Q14. Answer: (a) The publics are

The correct answer is 'The publics are' i.e. this part of the sentence has an error.

Key Points

• In the given sentence, the use of the plural noun 'publics' and the plural verb 'are' is incorrect.

• The noun 'public' is an uncountable noun or singular noun.

• Therefore, the singular form of the noun 'public' should be used in place of the plural form 'publics'.

• Also, we know that a singular noun or subject always takes a singular verb.

• Therefore, the singular form of the verb 'is' should be used in place of the plural verb 'are'.

Hence, the correct answer is option 1.

Correct Sentence: The public is not satisfied with the new act.

Additional Information

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

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

Q15. Answer: (b) Resolve

The solution is in Hindi. Read it online.

Q16. Answer: (b) I told Kirti that those plants would take about two months to flower

The correct answer is I told Kirti that those plants would take about two months to flower.

Key Points

• The given sentence is a direct speech.

• The basic rules for changing or converting direct speech into indirect speech:

• The commas, inverted commas are removed, and 'that' is added.

• The reporting verb "said to" becomes "told" and also "these" becomes "those".

• The simple present tense format 'Subject + V1 (will) + Object' will be changed into the simple past tense format 'Subject + V2 (would) + Object'.

Hence, the correct answer is option 2.

Additional Information

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

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

Q17. Answer: (a) Save

The solution is in Hindi. Read it online.

Q18. Answer: (c) Hindrance

The solution is in Hindi. Read it online.

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Q19. Answer: (c) CADB

The correct answer is 'CADB'.

Key Points

• The sentence 'C' is independent of any other sentences as it is giving general information about "strong cable and bars of iron". Hence, 'C' is the first part.

• The noun "cable" mentioned in the sentence 'A' refers back to the "strong cable" mentioned in the sentence 'C'. Hence, 'A' follows 'C'.

• The word "twisted" mentioned in the sentence 'D' is linked with the word "packthread" mentioned in the sentence 'A'. Hence, 'D' follows 'A'.

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

Paragraph after rearranging the sentences: I ordered a great quantity of strong cable and bars of iron. The cable was thick as pack-thread, and the bars were the size of knitting needles. I twisted the cables together and made fifty strong cords. Then I made fifty hooks by twisting three bars together at a time.

Hint

• Important Rules to Solve the Para Jumbles:

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

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

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

Q20. Answer: (b) Carnivore

The correct answer is 'Carnivore'.

Key Points

• Let us explore the given options:-

• 'Herbivore' is an animal that feeds on plants.

• Example: Cows and sheep are herbivores.

• 'Carnivore' is an animal that feeds on other animals.

• Example: The Kodiak grizzly bear is the world's largest land carnivore.

'Insectivore' is an animal that feeds on insects, worms, and other invertebrates.

• Example: It is related to the hedgehog, or rather it belongs to the same family of insectivores.

• 'Omnivore' is an animal or person that eats a variety of food of both plant and animal origin.

• Example: Vegetarian and omnivore parents had varying influences on dietary intake and biochemical measurements of their children.

Hence, the correct answer is option 2*.*

Q21. Answer: (d) No improvement

The correct answer is 'No improvement'.

Key Points

• In the underlined segment, there is no need for any substitution or improvement.

• The use of the gerund or present participle form of the verb 'switching' after the preposition 'after' is absolutely correct.

• The phrase "switching off" with the noun 'light' is correct as it means stopping the flow or operation of something by means of a tap, switch, or button.

• Therefore, no improvement is required in the underlined segment.

Hence, the correct answer is option 4.

Q22. Answer: (b) ADCB

The correct answer is 'ADCB'.

Key Points

• The sentence 'A' is independent of any other sentences as it is giving general information about "Typhoon Kammuri". Hence, 'A' is the first part.

• The pronoun "It" mentioned in the sentence 'D' refers back to the "Typhoon Kammuri" mentioned in the sentence 'A'. Hence, 'D' follows 'A'.

• The phrase "closed the international airport" mentioned in the sentence 'C' is linked with the word "flooded" mentioned in the sentence 'D'. Hence, 'C' follows 'D'.

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

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Paragraph after rearranging the sentences: In December 2019, Typhoon Kammuri came to the Philippines. It flooded streets and damaged many houses and power lines. Officials closed the international airport in the capital city of Manila for 12 hours. They closed schools and evacuated hundreds of thousands of people from their homes.

Hint

• Important Rules to Solve the Para Jumbles:

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

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

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

Q23. Answer: (c) starts raining

The correct answer is 'starts raining' i.e. this part of the sentence has an error.

Key Points

• In the given sentence, the use of the simple present form of the verb 'starts' is incorrect.

• The given sentence is in the past continuous tense as it is used to describe something that was happening continuously in the past when another action interrupted it.

• Therefore, the past form of the verb 'started' should be used in place of the simple present verb 'starts'.

Hence, the correct answer is option 3.

Correct Sentence: When the boys were playing the match, it suddenly started raining.

Q24. Answer: (c) parents were talking

The correct answer is 'parents were talking'.

Key Points

• In the given sentence, the use of the simple past tense 'talked' is incorrect.

• The given sentence is in the past continuous tense as it is used to describe something that was happening continuously in the past when another action interrupted it.

• The past continuous tense is formed by combining the past tense of to be (was/were) with the verb’s present participle (-ing word).

• Therefore, the past continuous tense "were talking" should be used in place of the simple past tense 'talked'.

Hence, the correct answer is option 3.

Correct Sentence: While my parents were talking to the visitor, I made tea in the kitchen.

Q25. Answer: (a) pursued

The correct answer is 'pursued'.

Key Points

• The given sentence is talking something about studies even after leaving college.

• The use of the word 'finally' in the sentence indicates after a long time, typically when there has been difficulty or delay.

• Therefore, the most appropriate word to be filled in the blank is 'pursued'.

• 'Pursued' means to seek to attain or accomplish a goal over a long period.

• Example: The children pursued their studies, undisturbed by the many visitors.

Hence, the correct answer is option 1.

Complete Sentence: He pursued his studies even after leaving college and finally got a Ph.D. degree.

Additional Information

• Let us explore the other options:

• 'Carried' means supported and moved someone or something from one place to another.

• 'Persisted' means continued in an opinion or course of action in spite of difficulty or opposition.

• 'Sought' means attempted to find something.

Q26. Answer: (d) Iron

Iodine, Bromine and Fluorine are non metals. Whereas, Iron is a metal.

Hence, "Iron" is the odd one.

Q27. Answer: (c) [figure]

When the paper will unfold it will unfold in these steps:

Hence, option 3 is the correct unfolded figure.

Q28. Answer: (a) Grandson

Using below symbol table we can draw family tree diagram:

From the given information,

1) A and B are the brothers of C.

2) B is the son of D and E, D is the daughter of F. (implying D is the mother and E is the father of B)

3) P is the father-in-law of E (implying P is the father of D and F is the mother of D)

4) Q is the son of F (implying Q is the brother of D)

The family tree that can be drawn using these information are as follows:

Hence, A is the grandson of P.

Q29. Answer: (a) J

In the given figure the sum of the position value of opposite faces is 19

Place value of R = 18

Place value of A = 1

Sum of position values of R and A = 18 + 1 = 19

Similarly, Position value of G + L = 7 +12 = 19

Therefore, the sum of place values of I and ? will also be 19.

So,

I + ? = 19

9 + ? 19

? = 10 = J

Hence, the missing letter is J.

Q30. Answer: (c) (200, 600, 300)

On applying these two properties on each option one by one we get,

1) (201, 702, 303)

Property 1: sum of the digits of the third number = 3 + 3 = 6 and sum of the digits of first number = 2 + 0 + 1 = 3 Here, this property is verified.

Property 2: sum of the digits of second number = 7 + 2 = 9 and sum of the digits of first number = 2 + 0 + 1 = 3 Here this property is verified.

2) (400, 660, 800)

Property 1: sum of the digits of the third number = 8 + 0 + 0 = 8 and sum of the digits of first number = 4 + 0 + 0 = 4 Here, this property is verified.

Property 2: sum of the digits of second number = 6 + 6 + 0 = 12 and sum of the digits of first number = 4 + 0 + 0 = 4 Here this property is verified.

3) (200, 600, 300)

Property 1: sum of the digits of the third number = 3 + 0 + 0 = 3 and sum of the digits of first number = 2 + 0 + 0 = 2 Here, this property is not verified.

Property 2: sum of the digits of second number = 6 + 0 + 0 = 6 and sum of the digits of first number = 2 + 0 + 0 = 2 Here this property is verified.

4) (111, 207, 222)

Property 1: sum of the digits of the third number = 2 + 2 + 2 = 6 and sum of the digits of first number = 1 + 1 + 1 = 3 Here, this property is verified.

Property 2: sum of the digits of second number = 2 + 0 + 7 = 9 and sum of the digits of first number = 1 + 1 + 1 = 3 Here this property is verified.

Hence, option 3 does not follow these properties.

Q31. Answer: (c) 2 × 4 + 8 = 34

On interchanging the signs '+' and '×' and the numbers '4' and '8' are interchanged.

Checking each option one by one

1) 12 × 4 + 8 = 34

After interchanging the signs '+' and '×' and the numbers '4' and '8'

= 12 + 8 × 4 = 34

= 12 + 32 = 34

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= 44 ≠ 34

2) 6 + 8 × 4 = 38

After interchanging the signs '+' and '×' and the numbers '4' and '8'

= 6 × 4 + 8 = 38

= 24 + 8 = 38

= 32 ≠ 38

3) 2 × 4 + 8 = 34

After interchanging the signs '+' and '×' and the numbers '4' and '8'

= 2 + 8 × 4 = 34

= 2 + 32 = 34

= 34 = 34

4) 4 + 8 × 2 = 32

= 8 × 4 + 2 = 32

= 32 + 2 = 32

= 34 ≠ 32

Hence, Only option 3 satisfies the condition

Q32. Answer: (b) 3

Given positions of the same dice,

Clearly, 5 and 1 are on the adjacent sides of 4 in the given dice

Therefore only one option remains to be on the opposite side of 4 that is '3'.

Hence, 3 is opposite to the one having 4.

Q33. Answer: (b) Bacteria

Malaria is caused by parasite in the same way Stomach ulcers is caused by Bacteria

Hence, Bacteria is the correct answer.

Q34. Answer: (c) [figure]

When the mirror is placed right side of the figure, then only the left and right sides of the image will be interchanged. Thus, the mirror image will be as follows:

Hence, the correct mirror image for the diagram will be only option 3.

Q35. Answer: (c) 10

Let us name this triangle.

We get triangles namely ABC, ABD, ABE, ABF, ACD, ACE, ADF, AEF, ADE, ACF

Hence, there are 10 triangles in this given figure.

Q36. Answer: (a) 2534

The given codes are as follows:

P	A	R	K
6	7	3	9

R	O	A	D
3	5	7	4

P	O	N	D
6	5	8	4

L	A	N	E
2	7	8	1

Hence, we get the following codes for the Alphabets:

L - 2, O - 5, R - 3, D - 4

Hence, the code for the word LORD is 2534.

Q37. Answer: (a) MGPBNC

The pattern followed here is,

Similarly,

Hence, KINDLE Will be coded as 'MGPBNC'.

Q38. Answer: (d) 193

Given,

29 : 838 :: 14 : ?

The pattern followed here is,

$29^2 - 3 = 841 - 3 = 838$

Similarly,

$14^2 - 3 = 196 - 3 = 193$

Hence, 193 is the correct answer.

Q39. Answer: (c) ET

Each letter-clusters contain only consonant in it but, only 'ET' contains a vowel 'E' in it.

Hence, 'ET' is different from the rest three.

Q40. Answer: (a) HPX

According to the English Alphabet series and the positional values:

The pattern followed here is,

Hence, 'HPX' Will come next in the series.

Q41. Answer: (b) Gums

'Myopia' is a disease related to the eye in the same way 'Pyorrhea' is a disease related to the gums.

Hence, Gums is the correct answer to this question.

Q42. Answer: (b) 11

Given,

4 (15) 1; 7 (22) 3; ? (57) 4

The pattern followed here is,

$4^2 - 1^3 = 15$

$7^2 - 3^3 = 49 - 27 = 22$

Similarly,

$?^2 - 4^3 = 57$

$?^2 - 64 = 57$

$?^2 = 64 + 57$

$?^2 = 121$

$? = 11$

Hence, 11 will replace question mark in the given pattern.

Q43. Answer: (c) 15

Given,

1, 4, 9, 15, 25, 36

The pattern followed here is,

$1^2 = 1$

$2^2 = 4$

$3^2 = 9$

$4^2 = 16 \neq 15$

$5^2 = 25$

$6^2 = 36$

Clearly, 15 is not a perfect square of 4.

Hence, 15 does not belong to this series.

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Q44. Answer: (c) 11

The shaded part represents the students who play any two of the three sports which is shown below:

Hence, the students who play any two of the three sports are 6 + 5 = 11.

Q45. Answer: (c) (326, 654, 981)

Out of the four triads three triads follow a pattern

1) (273, 546, 819)

273 = 2 + 7 + 3 = 12

546 = 5 + 4 + 6 = 15

819 = 8 + 1 + 9 = 18

2) (291, 438, 657)

291 = 2 + 9 + 1 = 12

438 = 4 + 3 + 8 = 15

657 = 6 + 5 + 7 = 18

3) (326, 654, 981)

326 = 3 + 2 + 6 = 11

654 = 6 + 5 + 4 = 15

981 = 9 + 8 + 1 = 18

4) (192, 384, 576)

192 = 1 + 9 + 2 = 12

384 = 3 + 8 + 4 = 15

576 = 5 + 7 + 6 = 18

sum of digits of first number in triad is 12

sum of digits of second number in triad is 15

and, sum of digits of third number in triad is 18

on checking, option 3

the first number 326 = 3 + 2 + 6 = 11

654 = 6 + 5 + 4 = 15

981 = 9 + 8 + 1 = 18

Hence, option 3 is different from the given number triads.

Q46. Answer: (d) [figure]

The option in which the given figure is embedded is:

Hence, option 4 contains the given figure.

Q47. Answer: (b) Only conclusion I follows.

The least possible Venn diagram for the given statements is as follows:

Conclusions:

I. Some managers are women → True (As given some women are managers).

II. Some teachers are managers → False (As no definite relation can be established between teachers and managers)

Hence, Only conclusion I follows for the given statements.

Q48. Answer: (c) 66

Given,

6, 10, 18, 34, ?

The pattern followed is,

Hence, 66 will replace the question mark.

Q49. Answer: (a) 20

While writing all the natural numbers from 1 to 100, 6 comes at different places such as

6, 16, 26, 36, 46, 56, 66, 76, 86, 96, 60, 61, 62, 63, 64, 65, 67, 68, 69.

Hence, 6 comes 20 times while writing from 1 to 100.

Note: In 66 there are two 6's in 66.

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Q50. Answer: (b) [figure]

In the mirror image, the top and the bottom part of the figure remain the same, and the left and the right part of the figure interchange.

Hence, the correct answer is option(2).

Q51. Answer: (a) 31 : 18

Given:

=> Number of cricket playing student = 23% of 2800 = 644

=> Number of Kabaddi playing student = 12% of 2800 = 336

Calculation:

=> Number of cricket playing student after 24 student remove = 620

=> Number of kabaddi player after 24 student added = 360

=> New ratio of the number of students in Cricket and Kabaddi playing student = 620 : 360 = 31 : 18

Therefore The required ratio is 31 : 18.

Q52. Answer: (b) Rs. 8,000

Given

Malti bought a TV = Rs 8800

Formula Used

Selling price = [cost price × (100 + p%)]/100

Calculation

=> Let the cost price of TV is x

=> (x/100) × 110 = 8800

=> x = 8,000

Therefore The original cost of the TV is Rs 8000

Alternate Method

Calculation:

Let the cost price be Rs. 100

GST is 10% and applied on cost price,

Cost price after GST,

=> 100 + 10% of 100

=> 100 + 10

=> 110

According to the question,

=> 110 = 8,800

=> 1 = 8,800/110 = 80

Actual cost price is,

=> 80 × 100

=> 8,000

Therefore The original cost of the TV is Rs 8000

Q53. Answer: (b) 32

Given

x3 + y3 = 16

x + y = 4

Formula Used

x3 + y3 = (x + y) (x2 – xy + y2)

x4 + y4 = (x2 + y2)2 - 2x2y2

Calculation

=> $x^3 + y^3 = (x + y) (x^2 – xy + y^2)$

=> Putting given values of $x^3 + y^3$ and (x + y)

=> $16 = 4 \times ((x+y)^2 – 3xy)$

=> $16 = 4 \times (16 – 3xy)$

=> 16 = 64 – 12xy

=> 12xy = 48

=> xy = 4

=> x^4+ y^4 = $(x^2 + y^2)^2 - 2x^2y^2$

=> $(x^2 + y^2)^2 – 2 \times 16$

=> $((x + y)^2 – 2xy)^2 – 2 \times 16$

=> $(16 – 8)^2 – 2 \times 16$

=> 64 - 32 = 32

Therefore x^4 + y^4 is 32.

Q54. Answer: (c) 84

Given

$4/3(x^2 + 1/(x^2)) = 110\ 2/3$

Formula Used

If $x^2 + 1/x^2 = a$

then $x - 1/x = \sqrt{(a^2 - 2)} = b$

and also $x^3 - 1/x^3 = b^3 + 3b$

Calculation

$(4/3)(x^2 + 1/x^2) = (332/3)$

=> $(x2 + 1/x2) = (332/3) \times (3/4)$

=> $x^2 + 1/x^2 = 83$

=> $x - 1/x = \sqrt{(83 - 2)} = \sqrt{81} = 9$

=> $x^3 - 1/x^3 = 9^3 + 3(9) = 729 + 27 = 756$

=> $1/9(x3 - 1/x^3) = 84$

Q55. Answer: (a) 48 cm

Given

Radius of circle = 10 cm

Formula Used

$(\text{Hypotnuese})^2 = (\text{perpendicular})^2 + (\text{Base})^2$

Calculation

=> BP = BR and CR = CQ

=>Perimeter of ΔABC = AB + BR + RC + CA

and

BP = BR and RC = CQ [equal tangent theorem]

Equal Tangent Theorem: This theorem states that if from one external point, two tangents are drawn to a circle then they have equal tangent segments.

So

=> AB + BP + QC + CA

= AP + QA (AP = QA, From equal tangent theorem)

=>2AP

=> In ΔAPO

=>$AO^2=AP^2+PO^2$

=>$26^2 = AP^2 + 10^2$

=> $AP^2 = 576$

=> AP = 24

=> The perimeter of the ΔABC = 2 x 24 = 48 cm

Q56. Answer: (b) 64

Given:

[7 + 7 × (7 + 7 ÷ 7)] + 7 ÷ 7.

Concept used:

Calculation:

=> [7 + 7 × (7 + 7 ÷ 7)] + 7 ÷ 7.
=> [7 + 7 × (7 + 1)] + 1
=> 63 + 1 = 64
Therefore The value is 64.

Q57. Answer: (d) 34 cm²

Given
Area of ΔABC = 136 cm²
Formula Used
Area of equilateral triangle = √3(a²/4), where a is the side of the triangle.
Calculation
If each side of ΔABC = 2x unit
Then, Area of ΔABC = √3 x² ---- (1)
Now, BD = BC/2 (given)
=> BD = 2x/2 = x
So, area of equilateral triangle BDE =√3x²/4 ---- (2)
=> By dividing (1) by (2)
=> ar(ΔABC)/ar(ΔBDE) = (√3x²)/(√3x²/4) = 4/1
=> 4 : 1
=> Area of ΔABC = 136
=> 4x = 136
=> x = 34
Therefore The area of ΔBDE is 34 cm²

Q58. Answer: (c) 31°

Given
Cos 3θ = Sin (θ - 34°)
Formula used
sin (90° - θ) = cos θ
Calculation
=> sin (90 -3θ) = sin {(θ - 34)}
=> 90° - 3θ = θ - 34°
=> θ = 31°
Therefore θ = 31°

Q59. Answer: (d) 30 km/h

Given
Rahul and Mithun travel = 30 km
Sum of their speed = 70 km/h
Formula used
Distance = speed × time
Calculation
let the speed of rahul = s
=> speed of mithun = 70 - s
=> total time = 2(6/60) hr = 21/10 hr
=> 30/s + {30/(70 - s)} = 21/10
=> s² - 70s + 1000 = 0
=> s² - 50s - 20s + 1000 = 0
=> s(s - 50) - 20(s - 50) = 0
=> (s - 50) (s - 20) = 0
=> s = 50 km/hr, s = 20 km/hr
when speed of Rahul = 50 km/hr, speed of mithun = 20 km/hr
when speed of mithun = 50 km/hr, speed of rahul = 20 km.hr

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Therefore The difference of their speed is 30 km/hr

Q60. Answer: (a) 44.4%

Given:

The production of fertilizers in 1998 = 45 tonnes

The production of fertilizers in 1999 = 65 tonnes

Concept used:

Percentage = (actual value)/(comparison value) × 100

Calculation:

Increase in the production of fertilizers from 1998 to 1999 = 20

Percentage increase in the production of fertilizers from 1998 to 1999 = (20/45) × 100 = 44.4%

Therefore The percentage increase in the production of fertilizers from 1998 to 1999 is 44.4%

Q61. Answer: (b) 1/5

Given:

$\sqrt{3}\cos\theta = \sin\theta$

calculation:

$\Rightarrow \sin\theta/\cos\theta = \sqrt{3}$

$\Rightarrow \tan\theta = \sqrt{3}$

$\Rightarrow \theta = 60°$

Then, $(4\sin^2\theta - 5\cos\theta)/(3\cos\theta + 1) = [4(\sqrt{3}/2)^2 - (5/2)]/[(3/2) + 1]$

$\Rightarrow (1/2)/(5/2) = 1/5$

Therefore The required value is 1/5.

Q62. Answer: (d) 48 cm²

Given

Δ ABC is an isosceles triangle, AB = AC

Ad = 6 cm

Formula used

Area of triangle = 1/2 × base × height

Figure:

Calculation:

Let, Base = b, and two equal sides = a

According to the given data,

$\Rightarrow 2a + b = 36$ ---(1)

$\Rightarrow 2a = 36 - b$

$\Rightarrow a = (36 - b)/2$ ---(2)

Now, AD perpendicular to BC ,so ΔADB is a right angle triangle.

So, $AB^2 = AD^2 + BD^2$

$\Rightarrow a^2 = 6^2 + (b/2)^2$

$\Rightarrow a2 = 36 + b^2/4$

$\Rightarrow a2 - b2/4 = 36$

$\Rightarrow 4a2 - b2 = 36 \times 4$

$\Rightarrow (2a + b)(2a - b) = 144$

Putting the value of (2a + b) from equation (1),

$\Rightarrow 36 \times (2a - b) = 144$

$\Rightarrow 2a - b = 4$

Putting the value of b from equation (2),

$\Rightarrow 2 \times (36 - b)/2 - b = 4$

$\Rightarrow (36 - b) - b = 4$

$\Rightarrow 36 - 2b = 4$

$\Rightarrow 2b = 36 - 4$

$\Rightarrow b = 32/2 = 16$ cm

So, the area of the Δ ABC = 1/2 × 16 × 6 = 48 cm²
Therefore Area of triangle ABC is 48 cm2
Shortcut Trick
AD perpendicular to BC ,so ΔADB is a right angle triangle
We know the triplet (6,8,10)
so AB= 10, AD = 6 cm and BD = 8 cm
BC = 2 × BD (In isosceles triangle, altitude and median are same)
BC = 16 cm
Area of triangle ABC = 1/2 × 16 × 6 = 48 cm²
Therefore Area of triangle ABC is 48 cm2

Q63. Answer: (a) Rs. 3,500

Formula used
Cost price = (selling price)/(100 + profit%) × 100
Calculation
Let the cost price of article 100x
Sell at 12% loss = 88x
Sell at 6% gain = 106x
106x - 88x = 630
=> x = 630/18 = 35
=> 100x = 100 × 35 = 3500
Therefore The cost price of article is Rs 3500

Q64. Answer: (a) 560

Given:
The number of students enrolled in hockey = 26% of 2800
The number of students enrolled in Tennis = 14% of 2800
Calculation:
The number of students enrolled in hockey = (26/100) × 2800 = 728
The number of students enrolled in Tennis = (14/100) × 2800 = 392
Average number of students enrolled in Hockey and Tennis together = (728 + 392)/2 = 1120/2
=> Average number of students enrolled = 560
Therefore The average number of students enrolled in Hockey and Tennis together is 560

Q65. Answer: (d) Rs. 18,000

Shortcut Trick
For 10% rate (1/10) over 3 years, let Principal = 10^3 = 1000 units.
The difference (D) between CI and SI is given by the ratio: D = 3R + 1 (where R is the denominator 10).
=> Difference = 3(10) + 1 = 31 units.
Given 31 units = Rs. 558 => 1 unit = 558 ÷ 31 = 18.
Sum (Principal) = 1000 units × 18 = Rs. 18,000.
Therefore The correct answer is Rs. 18,000.
Alternate Method
Given: Rate (R) = 10% per annum, Time (T) = 3 years, Difference (D) = Rs. 558.
Formula Used: Difference (D) = $P(R/100)^2 \times [(300 + R) / 100]$
=> $558 = P \times (10/100)^2 \times [(300 + 10) / 100]$
=> $558 = P \times (1/10)^2 \times (310 / 100)$
=> $558 = P \times (1/100) \times (31/10)$
=> $558 = P \times (31 / 1000)$
=> $P = (558 \times 1000) \div 31$
=> $P = 18 \times 1000$
=> P = 18,000
Therefore The correct answer is Rs. 18,000.

Additional Information

Difference for 2 Years

The difference between CI and SI for 2 years is given by $D = P(R/100)^2$.

Compound Interest Formula

Amount $(A) = P(1 + R/100)^n$, where n is the number of years. CI = A − P.

Effective Rate Method

For 10% rate for 3 years, the effective SI is 30% and the effective CI is 33.1%. The difference is 3.1% of the Principal.

Q66. Answer: (b) Rs. 12,000

Given

The salary of each increased = Rs 4800

Calculation

let the salary of vipin and Dinesh be 5x and 8x

(5x + 4800)/(8x + 4800) = 7/10

=> 50x + 48000 = 56x + 33600

=> x = 14400/6 = 2400

Vipin salary = 5x = 5 × 2400 = Rs 12000

Therefore Vipin's salary is Rs 12000

Q67. Answer: (d) 0

Given:

p + 1/p=112

Calculation:

p + 1/p = 112

p - 112 = -1/p ----(1)

(p - 112)^(15) + 1/p^(15)

Putting the value of (p - 112) in equation (2), we will get

[-(1/p)]^(15) + (1/p)^(15)

=> -(1/p)^(15) + (1/p)^(15) = 0

Therefore (p - 112)15 + 1/p15 = 0

Q68. Answer: (c) M = 5, N = 2

Given

The number which is divisible by 8 and 11 = 4M37094267N

Concept Used

divisibility rule of 8 - if the last 3 digit of any number is divisible by 8, then the whole number divisible by 8

divisibility rule of 11 - the sum of odd place digits - the sum of even place digits = 0 or 11

Calculation

67N last 3 digits of the number

According to the rule of divisibility by 8, N should be 2

So, the value of N = 2

Now no. = 4M370942672

=> the sum of odd place digit - the sum of even digit place = 0 OR 11

=> (4 + 3 + 0 + 4 + 6+ 2) - (M + 7 + 9 + 2 + 7) = 11

=> M = 5

Therefore The value of M = 5 and N = 2

Q69. Answer: (a) 6

Given

The average of nine 2 digit number decreases by = 6

Formula Used

Average = Sum of Observation/ No. of Observation

Calculation

Let the number be 10x+y

(Sum of eight numbers + 10x + y)/9 - 6 = (Sum of eight numbers + 10y + x)/9

=> (Sum of eight numbers + 10x + y) - 54 = (Sum of eight numbers + 10y + x)

=> 10x + y - 54 = 10y + x

=> 9x - 9y = 54

=> x - y = 6

Therefore The difference between the digit of number is 6.

Q70. Answer: (a) 2001 and 2002

Given:

The values to be directly taken from the graph.

Calculation:

Average production of 2000 and 2001 = (50 + 75)/2 = 62.5

Average production of 2001 and 2002 = (75 + 80)/2 = 77.5

So, we have clearly seen from options,

The average production of 2000 and 2001 is less than the average production of 2001 and 2002.

Q71. Answer: (d) 4250

Given

the difference of 2 positive number = 1020

Calculation

=> Let two numbers be x and y resp.

=> 7.6% of x = 12.4% of y

=> x : y = 31 : 19

=> x - y = 1020

=> 31a - 19a = 1020

=> a = 1020/12 = 85

=> sum of two numbers = 31a + 19a = 50a

=> 50 × 85 = 4250

Therefore The sum of two numbers is 4250

Q72. Answer: (c) 6 cm

Given

AB = 48 cm

AC = 14 cm

Figure:

Formula used

(Hypotnuese)² = Perpendicular²+ base²

Area of triangle = 1/2 × Base × Height

Calculation

Let OP = OQ = OR = radius = r cm

$BC^2 = AB^2 + AC^2$

=> BC = √(48² + 14²) = 50 cm

Area of Δ ABC = area of Δ OAB + area of Δ OBC + area of Δ OAC

=> 1/2 × 48 × 14 = 1/2 × [48r + 14r + 50r]

=> r = 48 × 14/(112) = 6 cm

Therefore The radius of incircle is 6 cm

Q73. Answer: (a) 140 m

Given

Diameter of cylindrical wire = .6cm

Formula Used

Volume of cylinder = $\pi R^2 H$

Calculation

1 dm = 10 cm

1 dm^3 = 1000 cm^3

So, 3.96 dm^3 = 3960 cm^3

Volume of the cylinder = $\pi R^2 l$

$3960 = (22/7) \times (.6/2)^2 \times l$

=> l = 14000 cm

=> 1m = 100cm

=>14000 cm = 140 m

Therefore The length of cylindrical wire is 140 m

Q74. Answer: (d) 1

Given

$x\sin3\theta + y\cos3\theta = \sin\theta\cos\theta$

$x\sin\theta = y\cos\theta$

Formula used

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

Calculation

$x \sin^3\theta + y \cos^3\theta = \sin\theta \cos\theta$

$=> (x \sin\theta) \sin^2\theta + (y \cos\theta) \cos^2\theta = \sin\theta \cos\theta$

$=> (x \sin\theta) \sin^2\theta + (x \sin\theta) \cos^2\theta = \sin\theta \cos\theta$ ($y \cos\theta = x \sin\theta$)

$=> x \sin\theta(\sin^2\theta + \cos^2\theta) = \sin\theta \cos\theta$

$=> x \sin\theta = \sin\theta \cos\theta$

$=> x = \cos\theta$ ----(1)

Again $x \sin\theta = y \cos\theta$

$=> \cos\theta \sin\theta = y \cos\theta$

$=> y = \sin\theta$ ----(2)

from (1) and (2)

$=> x^2 + y^2 = \sin2\theta + \cos2\theta = 1$

Q75. Answer: (a) 60 days

Given

A and B together can complete work = 15 days

B and C together can complete work = 24 days

Formula Used

Work = time × efficiency

Calculation

Take LCM of (15, 24) = 120

Let the total work be 120

Efficiency of A and B = 120/15 = 8 ----(1)

Efficiency of B and C = 120/24 = 5 ----(2)

We know, A : C = 2 : 1 ----(3)

From (1) and (2)

=> A - C = 3

By using (3), efficiency of A = 6, B = 2 and C = 3

=> B alone can complete the work in days = 120/2 = 60 days

Therefore B alone can complete the work in days is 60 days

Q76. Answer: (c) 22^(nd) May

The correct answer is 22^(nd)May.

Key Points

• 22^(nd) May is declared as an international day of Biological diversity by the United Nation to increase understanding and spread awareness related to Biodiversity issues.

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• 20^(th)May is Celebrated as Rescue Dog Day. It is celebrated to create awareness and Prevention of Cruelty to Animals.

• 22^(nd) June is celebrated as World Rainforest Day. It is celebrated to mark the importance of rainforests on earth and their role in our environment.

• 17^(th) May is celebrated as World Telecommunication Day has been celebrated annually on 17 May since 1969, marking the founding of the International Telecommunication Union (ITU) and the signing of the first International Telegraph Convention in 1865.

• Biodiversity- It refers to all the variety of life that can be found on Earth as well as to the communities that they form and the habitats in which they live.

Additional Information

• The theme for the International Day for Biodiversity 2020 was “our solutions are in nature.”

Q77. Answer: (d) Arunachal Pradesh

The correct answer is Arunachal Pradesh.

Key Points

Pasi Kongki	**It is a famous fold dance performed by the Adi tribes of Arunachal Pradesh. The dance depicts the social work of Pasi. Dance is performed in the music known as Aabang.**
Dhalo	It is a popular ritual folk dance of Goa. It is performed by women for the protection of their households. Song on which dance is performed will generally be in Konkani or Marathi language.
Naach	It is a famous folk dance of Haryana to entertain peoples.
Mohiniyattam	It is one of the famous folk dances of Kerala. It is performed exclusively by women.

Q78. Answer: (c) Gopalaswami Ayyangar

The correct answer is Option 3.

Key PointsGopalaswami Ayyangar:

• Gopalaswami Ayyangar was elected to the constituent assembly of India. Later he was also appointed as a member of the Drafting Committee that was responsible to formulate the constitution of India.

• After the accession of Kashmir Jawaharlal Nehru appointed G. Ayyangar as cabinet Minister and made him look into the matters of Kashmir Affairs. He leads the delegation representing India in the UN on the matter of the Kashmir issue.

• Gopalaswami Ayyangar was the chief Drafter of Article 370 that granted autonomy to the state of Jammu and Kashmir. Hence option 3 is correct.

What is Article 370?

• The article gives special status to the state of Jammu and Kashmir in terms of autonomy and liberty to formulate there own law for the permanent citizens of the state. All Indian laws do not apply to the state of Jammu and Kashmir.

• The Article was scrapped on 5 August 2019.

Q79. Answer: (c) Mahatma Gandhi

The correct answer is Mahatma Gandhi.

Key Points

• Wardha's scheme of basic education was introduced in 1937 on the thinkings of Mahatma Gandhi. It was also known as Nai Talim/ Buniyadi Talim.

• To discuss the ideas of the new education scheme the India Education conference was held at Wardha.

• Dr. Zakir Hussain was appointed the head of the committee established to formulate the scheme of basic education in India.

• After independence, this idea of education failed to create a permanent impact on the education system.

Q80. Answer: (c) Mahabaleshwar

The correct answer is Mahabaleshwar.

• Krishna River-

• Krishna is the second largest peninsular river covering the area of Andhra Pradesh, Telengana, Maharashtra, and Karnataka.

• It originates at Mahabaleshwar Maharashtra.

• Right bank Tributaries: the Ghatprabha, the Malprabha, and the Tungabhadra.

• Left Bank Tributaries: the Bhima, the Musi, and the Munneru.

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• Narmada River-
• The Amarkantak region is where the Narmada River, the Son River, and Johila River (Tributary of Son) emerge.
• It is a west flowing river. Narmada is also known as the Rewa River.
• The River flows through Gujarat, Chhattisgarh Madhya Pradesh, and Maharashtra.
• The tributaries of the Narmada River are Kolar River, Shakkar River, Dudhi River, Tawa River, and Hiran River.
• Kaveri River-
• Talakaveri or Talacauvery in the Bhramagiri Ranges of Karnataka is considered as the origin place of Kaveri.
• Kaveri is an east-flowing river.
• It covers the state of Karnataka and Tamil Nadu.
• The important tributaries of Kaveri are Harangi, Hemavati, Kabini, Suvarnavathi and Bhavani.
• Tapi River-
• It originates from Multai in Betul district of Madhya Pradesh.
• The river flows through M.P., Maharashtra, and Gujarat.
• Tapi is a west-flowing river.

Q81. Answer: (c) Change in height

The correct answer is Change in Height.
• There are 6 basic indicators that verify that weather chemical reaction has taken place. These 6 indicators are-
1. Change in state
2. Evolution of gas
3. Change of color
4. Change of temperature
5. Formation of precipitate
6. Change in smell or taste
• While all these changes are the result of chemical reactions.
• Change in height can be caused by physical forces.

Q82. Answer: (c) August

The correct answer is August.
• Former Finance Minister passed away on 24 August 2019. He was a Rajya Sabha member from Uttar Pradesh.
• Apart from the Finance Ministry, he was also handling the Ministry of Corporate Affairs.
• He was born on December 28, 1952. He did his schooling at St. Xavier's School, New Delhi from 1960-69.
• He graduated in Commerce from Shri Ram College of Commerce, New Delhi in 1973 and passed Law degree from the University of Delhi, in 1977.

Q83. Answer: (a) 2011-12

The correct answer is 2011-12.

Key Points
• The wholesale Price Index is an important index that helps in keeping a check on the inflation of the country.
• WPI focuses on the price of goods that are traded between corporations. It does not concentrate on goods purchased by the consumers.
• It is published by the Office of Economic Advisor (Ministry of Commerce & Industry).
• WPI calculated goods only not the services.
• 2011-12 has been selected as the base year for the reference point of view.

Q84. Answer: (a) Aparna Kumar

The correct answer is Aparna Kumar.
• Aparna Kumar-
• Aparna Kumar became the first IPS to be honoured with Tenzing Norgay National Adventure Award.
• The Tenzing Norgay National Adventure Awards are the highest national awards for adventure sports, at par with the Arjuna Award.
• She was awarded in the "Land Adventure" category.
• Aparna Kumar is a 2002 batch IPS officer from the Uttar Pradesh Cadre.
• Sanjukta Parashar-

• Sanjukta Parashar is an IPS officer of the 2006 batch. She is known as the iron lady of Assam for her heroic actions against militants.

• Roopa Moudgil-

• Roopa Moudgil is also known as D. Roopa is a 2000 batch IPS officer. She is currently serving as the Inspector-general of police Home Secretary, in Bangalore, Karnataka.

• R Sreelekha-

• She is the first women IPS officer of Kerala. She also served 4 years in CBI where she was nicknamed "Raid Sreelekha" due to her tough actions.

Q85. Answer: (b) Bobby Jindal

The correct answer is Bobby Jindal.

• Bobby Jindal is the first Indian American who served as the 55^(th) Governor of Louisiana. He previously served as a member of the U.S. House of Representatives and Chairman of the Republican Governors Association.

• G. Sankara Kurup, Also known as Mahakavi G, was an Indian poet, essayist, and literary critic of Malayalam literature.

• He is considered one of the greats of Malayalam poetry.

• He was the first recipient of the Jnanpith Award—the highest Indian literary honour.

• John Tyler was the 10th US President. He holds office from 1841-45. He also served as a Vice President under President William Henry Harrison.

• William Jefferson Clinton is also known as Bill Clinton served as 42nd President of the United States of America. He holds office between 1993-2001.

Q86. Answer: (c) Lew Wallace

The correct answer is Lew Wallace.

Author	Books/Works
Jules Verne	Journey to the Centre of the Earth, From the Earth to the Moon and Twenty Thousand Leagues Under the Sea.
Ben Jonson	Volpone, Epicoene, Bartholomew Fair etc
Lew Wallace	Ben-Hur: A Tale of the Christ, The Prince of India, Fair Good, etc.
Lewis Carroll	Alice's Adventures in Wonderland and Through the Looking-Glass.

Q87. Answer: (d) Sikkim

The correct answer is Sikkim.

Key Points

• Sikkim shares international boundaries with Bhutan, China, and Nepal.

• Arunachal Pradesh, Nagaland, Manipur, and Mizoram share an international boundary with Myanmar.

Q88. Answer: (a) Article 3

The correct answer is Article 3.

Key Points

• Article 3- This Article empowers the Indian parliament to form a new state by separation of territory from any state, or by uniting two or more states or parts of states.

• Article 5- Citizenship by domicile. A person who was born in India or either of the person's parents was born in India or the person must have been an ordinarily resident in the territory of India for not less than five years immediately before the commencement of the constitution.

• Article 4- This Article allows for consequential changes in the 1st Schedule i.e. names of the States in the Union of India and 4th Schedule i.e. the number of seats allotted in the Rajya Sabha for each state. Constitution will not treat any such law altering existing States or creating a new State, as the amendment.

• Article 2- This article states that Admission or establishment of new States: Parliament may by law admit into the Union, or establish, new States on such terms and conditions, as it thinks fit.

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Q89. Answer: (a) 1990

The correct answer is 1990.

Key Points

• The first Human Development Report was published in 1990 by Pakistani Economist Mahbub ul Haq and Indian Nobel laureate Amartya Sen.

• The Human Development Report (HDR) is an annual report published by the Human Development Report Office of the United Nations Development Programme.

• Human Development Report categories countries based on 3 dimensions

1. A long and healthy life,

2. Access to knowledge, and

3. A decent standard of living.

• HDI index 2022

• The countries like Norway, Switzerland, Australia, Ireland have highest HDI ranking.

• While Niger, Central African Republic, South Sudan, Chad and Burundi have the lowest ranking in the HDI's measurement.

• India's rank in the global Human Development Index (HDI) slipped marginally to 132, out of 191 countries

• Among Asian countries, Singapore topped the list with the rank of 11.

Q90. Answer: (b) Mizoram

The correct answer is Mizoram.

Key Points

Mizoram- Khuang

• Khuang is a Mizo indigenous instrument that has an important value in the Mizo society both socially as well as religiously.

• Khuang is made up of a Hollow tree wrapped with animal skin on both sides.

Additional Information

Assam- Gogona

• Gogona is a popular Assamese musical instrument.

• It is made up of Bamboo.

Jharkhand- Singa

• Singa is a traditional wind instrument from Jharkhand.

• Singa is made up of Bamboo and Buffalo Horn.

West Bengal- Dotara

• The dotara is one of the most important instruments used in various genres of folk music in Bengal and Assam.

• It is made up of hardwood like neem etc.

Q91. Answer: (a) Kelvin

The correct answer is Kelvin.

Key Points

• Kelvin-

• The kelvin is the base unit of temperature in the International System of Units.

• It was named after engineer and physicist William Thomson, 1^(st) Baron Kelvin.

• The SI unit symbol is K.

• The temperature is usually measured with a thermometer which is marked in several temperature scales mainly Celsius, Fahrenheit, and Kelvin.

Additional Information

• Mole-

• The mole is the unit of measurement for the amount of substance in the International System of Units.

• It is defined as exactly 6.02214076×10^{23} particles.

• These units can be atoms, molecules, ions, or electrons. This particular number constant of 6.02214076×10^{23} is called Avagadro Number.

• Metre-

• **The metre is the base unit of length in the International System of Units.

• The SI unit symbol is m.

• Candela-

• **The base unit of luminous intensity in the International System of Units.
• The SI unit symbol is cd.

Q92. Answer: (c) Ropar

The correct answer is - Ropar

Key Points

• Ropar
• Located in present-day Punjab on the banks of the Sutlej River, not the Indus.
• Excavated by Y.D. Sharma; one of the few Harappan sites in the easternmost region.
• Shows evidence of Harappan to post-Harappan cultural sequence.

Additional Information

• Mohenjodaro
• Situated on the right bank of the Indus River.
• Known for the Great Bath and advanced drainage system.
• Chanhudaro
• Located in Sindh, near the Indus basin.
• Famous as a centre for bead making.
• Kot Diji
• Situated on the left bank of the Indus in Sindh.
• Represents the Kot Diji pre-Harappan phase preceding mature Harappan culture.

Q93. Answer: (c) Pierre de Coubertin

The correct answer is Pierre de Coubertin.

Key Points

• Olympic motto comprises of three Latin word-
• Citius (Faster)
• Altius (Higher)
• Fortius (Stronger)
• These words were first used by Dominican Priest Henri Didon.
• He used it at the opening ceremony of school sports days.
• Pierre de Coubertin was also present at that ceremony. Later he prosed this as the Olympic motto.

Additional Information

• Since Pierre de Coubertin revived the games, he is also known as the Father of Modern Olympic Games.
• He was the second President and also the founder of the International Olympic Committee.

Q94. Answer: (d) Production of honey and horticulture

The correct answer is Production of honey and horticulture.

Key Points

Given below is the list of all the agricultural revolutions of India-

Revolution	Related To
Protein Revolution	Higher production of protein-rich foods
Yellow Revolution	Oilseed Production
Black Revolution	Petroleum products
Blue Revolution	Fish
Brown Revolution	Leather / Cocoa
Golden Fiber Revolution.	Jute Production.
Golden Revolution	Fruits / Honey Production / Horticulture Development
Grey Revolution	Fertilizers
Pink Revolution	Onion Production / Prawn Production

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Evergreen Revolution	Overall Production of Agriculture
Silver Revolution	Egg Production / Poultry Production
Silver Fiber Revolution	Cotton
Red Revolution	Meat Production / Tomato Production
Round Revolution	Potato
Green Revolution	Food Grains
White Revolution	Milk Production

Q95. Answer: (b) Coliform

The correct answer is Coliform.

Key Points

• Coliform bacteria are commonly found in the faeces of warm-blooded animals.

• It is a group of related bacteria whose presence in drinking water may indicate contamination by disease-causing micro-organisms.

• They directly don't cause illness but their presence in drinking water indicates that disease-causing bacteria can be present in the water system.

Additional Information

• Pseudomonas bacteria are a common form of bacteria that causes infection.

• They tend to live and breed in soil, water, and damp area.

• Clostridium is rod-shaped bacteria that are generally found in soil, water, and the intestinal tracts of humans and other animals. Various form of clostridium bacterial causes different kind of diseases some of the once are-

• Botulism- Due to Clostridium botulinum

• Tetanus- Due to Clostridium Tetani.

• Streptococcus is a kind of spherical-shaped bacteria belonging to the family Streptococcaceae. Streptococcus contains a variety of species, some of which cause disease in humans and animals, while others are important in the manufacture of certain fermented products.

• Streptococcus Lactic and Streptococcus cremoris- Used in the production of dairy products.

• Streptococcus pygenes- Flesh-eating bacteria. etc

Q96. Answer: (d) P.V Sindhu

The correct answer is PV Sindhu.

Key Points

• PV Sindhu became the first Indian to win the World Badminton Championship.

• She defeated Nozomi Okuhara of Japan to win this title.

• According to the current status of the Badminton World Federation ranking, PV Sindhu holds 7^(th) position worldwide in the Women's single category.

• PV Sindhu has won a silver medal in the Badminton women's single category at Rio Olympics 2016.

Q97. Answer: (a) Article 51

The correct answer is Article 51.

Key Points

• Directive principles of state policy-

• These are non-justiciable rights given to the citizens. DPSP lays down the objective and framework according to which state polices should be formed. The idea of DPSP was adopted from the Consitution of Ireland.

• Article 51-

• It states that to Promotion of international peace and security The State shall endeavor to

• Promote international peace and security.

• maintain just and honorable relations between nations.

• foster respect for international law and treaty obligations in the dealings of organized peoples with one another; and encourage settlement of international disputes by arbitration.

Additional Information

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• Article 69 -

• This article deals with the Oath or affirmation by the Vice-President.

• Article 62 -

• This article deals with the Time of holding an election to fill a vacancy in the office of the President and the term of office of the person elected to fill a casual vacancy.

• Article 49 -

• This article states that It shall be the obligation of the State to protect every monument or place or object of artistic or historic interest as declared by the parliament under the law to be of national importance, from spoliation, disfigurement, destruction, removal, disposal, or export, as the case may be.

Q98. Answer: (d) Second

The correct answer is Second.

Key Points

• First Generation Computers -

• Period 1940-1956.

• These generation computers were developed by using a vacuum tube or thermionic valve machine.

• The first generation computers worked on binary-coded concepts.

• Examples: ENIAC, EDVAC, etc.

• Second Generation Computers -

• Period 1956-1963.

• Second-generation computers were developed by using transistor technology.

• Third Generation Computers -

• The period 1963 to 1971.

• The third generation computers were developed by using Integrated Circuit technology.

• The computer of this generation was easier for commercial use.

• Fourth Generation Computers -

• The period 1972 to 2010.

• The fourth-generation computers were developed by using microprocessor technology.

• It is much faster and accuracy became more reliable.

• The production cost reduced to very low in comparison to the previous generation. This made it common among the people.

• Fifth Generation Computers -

• The period 2010 to date.

• Popular advanced technologies of the fifth generation include Artificial intelligence, Quantum computation, Nanotechnology, Parallel processing, etc.

Q99. Answer: (a) Plotter

The correct answer is Plotter.

Key Points

• Soft copy is data that is present as an electronic version inside any device.

• Devices that can process these data in humans' understandable format without presenting them in physical form are known as soft copy devices.

• Some of the examples of soft copy devices are a projector, monitor, speaker, etc.

• A hard copy is a printed data that is actually present in physical form.

• Devices that can produce these physical copies from the soft copy are known as hard copy devices.

• Some examples of a Laser printer, Dot-Matrix printer, Plotter, etc.

Plotter-

The plotter is a printing device that is used to print vector graphic images.

Additional Information

• Projector-

• The projector is an optical device that projects the electronic image on a surface also known as a projection screen.

• Monitor-

• The monitor is an output device that displays information in pictorial form.

• Speaker-

• Speaker is an electronic transducer that converts electromagnetic waves into sound waves.

Q100. Answer: (a) Tamil Nadu

The correct answer is Tamil Nadu.

Key Points

• The 'Mid-day meal Scheme' was first introduced in 1956 by Tamil Nadu's Chief Minister K. Kamaraj.

• The aim was to reduce the school dropout rate as well as increase school enrollment by providing free meals.

Additional Information

• Gujarat and Kerala were the 2^(nd) and 3^(rd)states respectively to implement it after Tamil Nadu.

• On 15 Aug 1995, it was taken as a National scheme called Nutrition Support to Primary Education Scheme or Mid-Day Meal program.

• It was taken under by the MHRD ministry (In 2020 name was changed to Ministry of Education).

• According to the scheme, all the primary and upper primary students of government schools and government-aided schools like Alternative and Innovative Education (AIE) centers and Madrasas will get free lunch.

• According to 2020 Ministry data over 11.9 Cr students are benefited from the scheme.

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