SSC CHSL Tier-1 2021: Official Paper (Held On : 27 May 2022 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2021 • 100 questions • 60 minutes • Answer key and solutions

Take this paper as a timed mock test

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

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

ENGLISH LANGUAGE

Q1. Select the most appropriate ANTONYM of the highlighted word.

She has a penchant for art and craft.

(a) hatred
(b) fear
(c) joy
(d) anxiety

Q2. Select the correct homonym from the given options to fill in the blank.

The police returned to the _____ of the crime.

(a) scene
(b) zen
(c) seen
(d) cene

Q3. Select the most appropriate synonym of the word given in the brackets to fill in the blank.

The western side of the country has some _____ (vacant) islands to explore.

(a) unexplored
(b) uninhabited
(c) undesired
(d) uninterested

Q4. Select the INCORRECTLY spelt word.

(a) Fecilitation
(b) Resplendent
(c) Jingoistic
(d) Segregation

Q5. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I goes / to school / every day / irrespective of the weather.

(a) every day
(b) I goes
(c) irrespective of the weather
(d) to school

Q6. Select the option that can be used as a one-word substitute for the underlined group of words.

Several literary pieces of the Old English period are written by authors whose names are not known.

(a) Anomalies
(b) Anonymous
(c) Renowned

(d) Undercover

Q7. Select the option that will improve the underlined part of the given sentence.

In this scene, a close-up shot was taken by the cameraman for display the emotions.

(a) to show emotions
(b) for show of emotions
(c) in order of emotions
(d) in order to display the emotions

Q8. Spot the error in the given sentence and select the correct sentence from the options given.

Fatima and Sana has both taken the vaccine.

(a) Fatima and Sana was both taken the vaccine.
(b) Fatima and Sana have both taken the vaccine.
(c) Fatima and Sana were both taken the vaccine.
(d) Fatima and Sana are both taken the vaccine.

Q9. Select the most appropriate ANTONYM of the highlighted word.

Hari's intimate nature has earned him many friends.

(a) unfriendly
(b) affectionate
(c) timely
(d) passionate

Q10. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I am not sure / if the red car / in the parking slot / is your.

(a) in the parking slot
(b) I am not sure
(c) if the red car
(d) is your.

Q11. Select the most appropriate option to substitute the underline segment in the given sentence.

I called off an explanation for his rude behaviour.

(a) called out
(b) called in
(c) called into
(d) called

Q12. Select the most appropriate meaning of the given idiom.

Donkey's years

(a) Leisure time
(b) Bad time
(c) Long time
(d) Good time

Q13. Select the most appropriate synonym of the given word.

Disseminate

(a) Implement
(b) Merge
(c) Circulate
(d) Facilitate

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Q14. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

My boss keeps telling me / all the time/ that money / doesn't grows on trees.

(a) My boss keeps telling me
(b) all the time
(c) that money
(d) doesn't grows on trees

Q15. Sentence of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. These great leaders never escaped from their responsibilities and challenges because they knew greatness would come through great responsibilities.

B. Leadership is one of the crucial elements in the field of management because most of the tie success or failure depends on the managerial skills of a leader.

C. There are not many leaders in the present world because, unlike ancient times, people are not ready to accept responsibilities.

D. Ancient India produced millions of people with leadership because it is an inner part of Indian culture to create leaders in every sphere of life. Chandragupta Mourya, Gandhi, Buddha, Bose etc. were leaders on this soil.

(a) ADBC
(b) BCAD
(c) ADCB
(d) BCDA

Q16. From among the words given in bold, select the INCORRECTLY spelt word in the following sentence.

And more than the muggings, the waiting to be mugged, fearing the dark that transformed shoddy innocous side streets into giant fangs crouching, springing to demolish this one last reminder.

(a) crouching
(b) innocous
(c) demolish
(d) shoddy

Q17. Select the most appropriate meaning of the given idiom.

Go to the wall

(a) To become strong
(b) To obtain protection
(c) To fail
(d) To start

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

Ecstasy

(a) Mourning
(b) Bliss
(c) Fantasy
(d) Appreciation

Q19. Select the option that will improve the underlined part of the given sentence.

I would like to thank you for your coming out tonight.

(a) for comes out
(b) for you came out
(c) for coming out
(d) for you will come out

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Q20. Select the most appropriate option that can substitute the underlined segment in the given sentence.

People was emptying out of the malls and roads.

(a) was emptying out of
(b) were emptying of
(c) was emptying of
(d) were emptying out of

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Personification gives (1) _____ qualities to non-living things or ideas. Imagery is a language used by poets, novelists and other writers to create images in the mind of the (2) _____. Rhyme scheme is the (3) _____ that is created at the end of the lines of poetry. Irony is defined as when (4) _____ meaning is completely (5) _____ from the literal meaning.

Q21. Select the most appropriate option to fill in blank number 1.

(a) supernatural
(b) divine
(c) animal
(d) human

Q22. Select the most appropriate option to fill in blank number 2.

(a) actors
(b) speakers
(c) readers
(d) humans

Q23. Select the most appropriate option to fill in blank number 3.

(a) pattern
(b) visual
(c) word
(d) idea

Q24. Select the most appropriate option of fill in blank number 4.

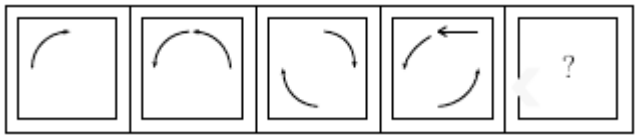
(a) actual
(b) common
(c) superficial
(d) unintentional

Q25. Select the most appropriate option to fill in blank number 5.

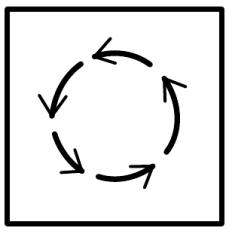
(a) different
(b) similar
(c) parallel
(d) against

GENERAL INTELLIGENCE

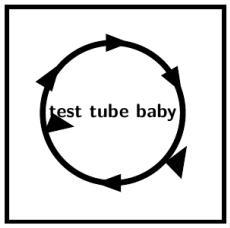
Q26. Select the figure that will replace the question mark (?) in the following figure series.



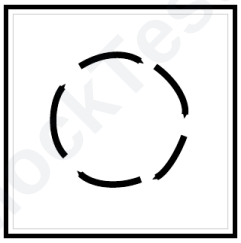
(a)



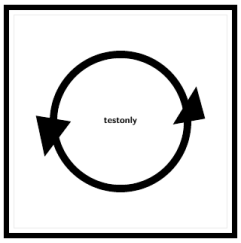
(b)



(c)



(d)

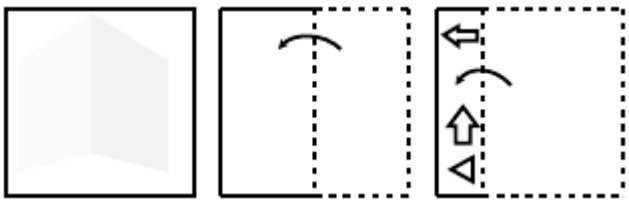


Q27. Which letter-cluster will replace the question mark(?) to complete the give series?

CFJK, JMQR, QTXY, ?, EHLM

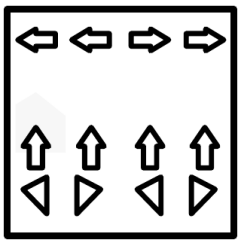
(a) XBCG
(b) XAEF
(c) WZDF
(d) WXEF

Q28. A paper is folded and cut as shown below. How will it appear when unfolded?

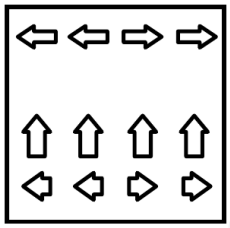


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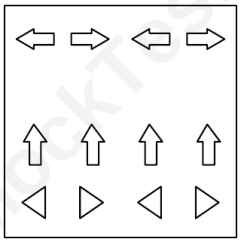
(a)



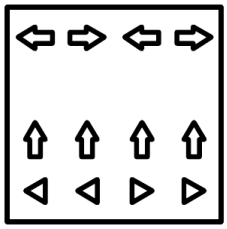
(b)



(c)



(d)



Q29. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs, except one. Find that odd number pair.

(a) 7 : 337
(b) 5 : 120
(c) 4 : 60
(d) 6 : 210

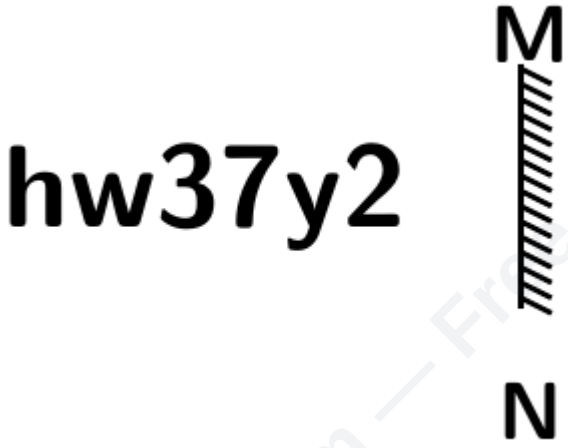
Q30. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

ABSENT : ANESBT :: NOTIFY : NFITOY :: LAUNCH : ?

(a) LCAUNH
(b) LCNHAU
(c) LCNUHA
(d) LCNUAH

Q31. Select the correct mirror image of the given combination when the mirror is placed at MN as shown,

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(a)



(b)



(c)



(d)



Q32. The second number in the given number performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs except one. Find that odd number pair.

(a) 47 : 2116
(b) 53 : 2703
(c) 24 : 528
(d) 68 : 4488

Q33. In a certain code language, 'BASKET' is coded as '211911520' and 'BOX' is coded as '21524'. How will 'COVER' be coded in that language?

(a) 31522519
(b) 31522518
(c) 21522519
(d) 31822518

Q34. In certain code language, 'TRAIN' is written as 'WUDLQ' and 'ROAD' is written as "URDG'. How will 'TAXI' be written in that language?

(a) WDAL
(b) WEAL
(c) WDBL
(d) WFAL

Q35. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs EXCEPT one. Find that odd number pair.

(a) 48 : 168
(b) 52 : 182
(c) 26 : 91
(d) 34 : 118

Q36. If 01 March 2012 was Thursday, then was the day of the week on 01 February 2016?

(a) Sunday
(b) Monday
(c) Saturday
(d) Friday

Q37. Select the correct combination of mathematical signs to sequentially replace the* signs and to balance the given equation.

57 * 35 * 7 * 14 * 2 * 43

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

Q38. Select the option that is related to the fifth term in the same way as the second term is related to the first term and fourth term related to third term.

786 : 7 :: 645 : 5 :: 282 : ?

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

Q39. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

9 : 109 :: 7 : 71 :: 13 : ?

(a) 238
(b) 229
(c) 218
(d) 209

Q40. In a certain code language, 'MATHS' is written as '13320819' and 'HINDI' is written as '82714427'. How will 'PHYSICS' be written in that language"

(a) 168251928319
(b) 168251923319
(c) 168251937319
(d) 168251927319

Q41. Which of the following numbers will replace the question mark(?) in the given series?

45, 55, 72, 97, 131, ?

(a) 183
(b) 189

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(c) 175
(d) 179

Q42. Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term

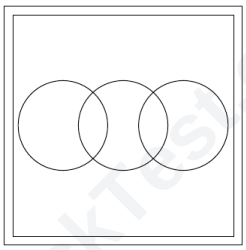
8 : 512 :: ? : 1728 :: 18 : 5832

(a) 8
(b) 14
(c) 12
(d) 9

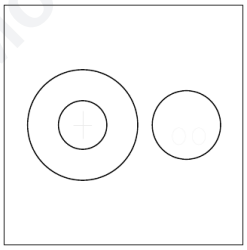
Q43. Select the Venn diagram that best illustrates the relationship between the following classes.

Hand, Feet, Chin

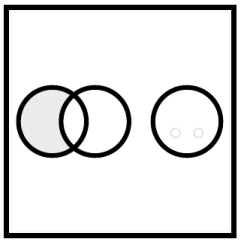
(a)



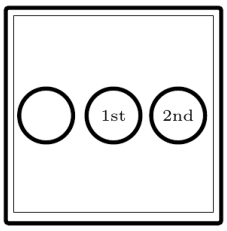
(b)



(c)



(d)



Q44. Select the option that represents the letters that when sequentially placed from left to right in the blanks below, will complete the letter series.

m n _ m n _ o m _ m _ n n o m _ m m _ n o

(a) m n n m n n
(b) o n n m n n
(c) m n o m n n
(d) m n n m o o

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Q45. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



(c)



(d)



Q46. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

15 - 4 + (8 × 6) ÷ 16 + 9 × 3 - 7 = 31

(a) 6 and 16
(b) 4 and 6
(c) 8 and 16
(d) 4 and 3

Q47. If 20 February 2013 was Wednesday, then what was the day of the week on 28 February 2016?

(a) Wednesday
(b) Sunday
(c) Monday
(d) Friday

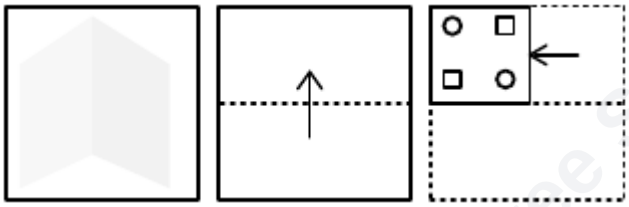
Q48. Which of the following numbers will replace the question mark (?) in the given series?

2, 22, 32, 42, 57, 87,162, ?

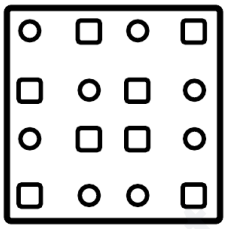
(a) 387
(b) 356
(c) 365

(d) 378

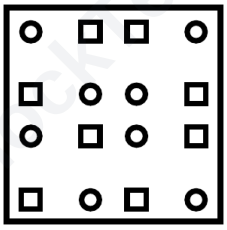
Q49. A paper is folded and cut as shown. How will it appear when unfolded?



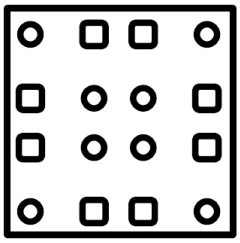
(a)



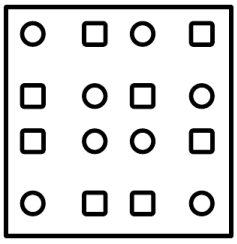
(b)



(c)

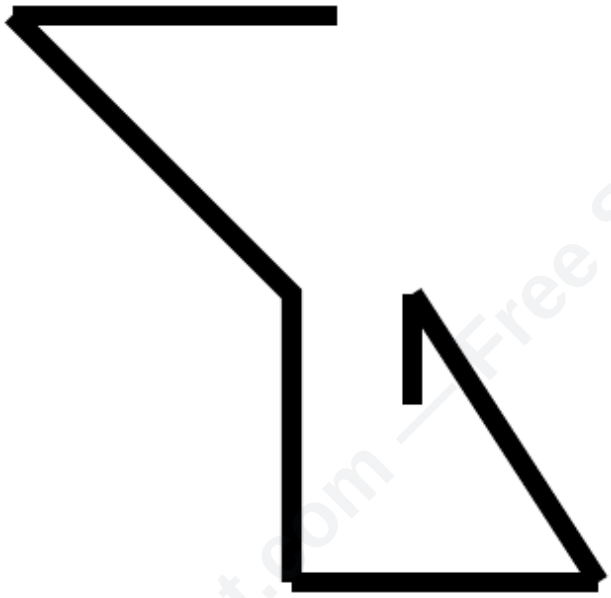


(d)

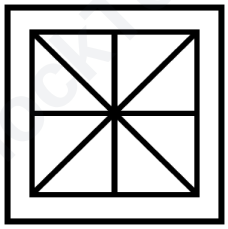


Q50. Select the option figure which is embedded in the given figure as its part(rotation is NOT allowed).

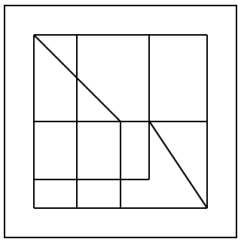
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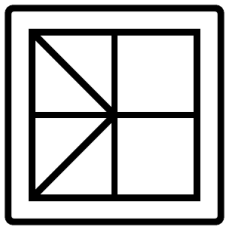
(a)



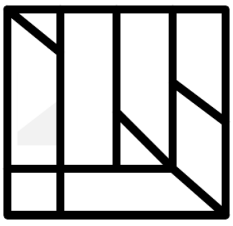
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. The marked price of a mobile phone is Rs. 36,000. A shopkeeper gives a discount of 11% on the marked price. Further, if a customer purchases it through a credit card then the final discount increases to 15%. Pooja purchases it with a credit card. How much does she pay?

(a) Rs.31,000
(b) Rs.32,000
(c) Rs.30,880
(d) Rs.30,600

Q52. Simplify the following expression.

(59×59×59)+(54×54×54)+(57×57×57)-3(59)(54)(57) over(59+54+57)

(a) 38
(b) 76
(c) 170
(d) 19

Q53. What is the surface area of a sphere whose diameter is 16.8 cm? [Use π = 22over7]

(a) 877.04 cm²
(b) 888.04 cm²
(c) 878.04 cm²
(d) 887.04 cm²

Q54. Suraj travels 124 km at a speed of 31 km/h by bus, 96 km at a speed of 16 km/h using a car, and another 105 km at 7 km/h by car. Find his average speed for the entire distance travelled.

(a) 13 km/h
(b) 21 km/h
(c) 15 km/h
(d) 18 km/h

Q55. Which of the following numbers is divisible by 33?

(a) 178750
(b) 164461
(c) 185592
(d) 171116

Q56. A mobile is marked at a price 25% above its cost price. At what discount percentage should it be sold to make a 10% profit?

(a) 10%
(b) 11%
(c) 12%
(d) 13%

Q57. The average weight of 52 girl is 47 kg. What will be the sum of their weights?

(a) 2544 kg
(b) 2458 kg
(c) 2454 kg
(d) 2444 kg

Q58. Air is pumped into a spherical balloon, its radius increases from 7 cm to 14 cm. Find the ratio of volume of the balloon's in both circumstances.

(a) 2 : 5
(b) 1 : 9
(c) 1 : 8
(d) 3 : 7

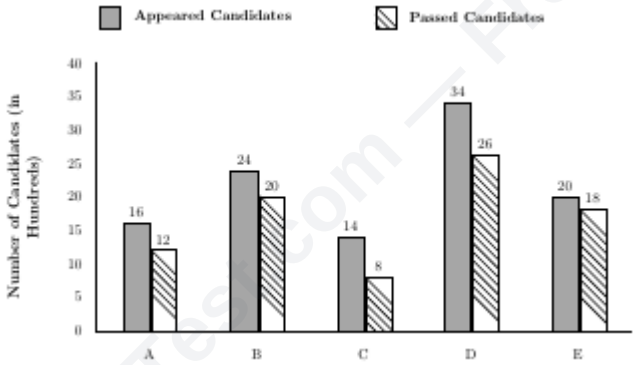
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Q59. The average age of a man and his son is 56 years. The ratio of their ages is 11 : 5. What is the son's age?

(a) 40 years
(b) 35 years
(c) 30 years
(d) 32 years

Q60. Study the given graph and answer the question that follows.

The graph shows the number of appeared candidates and passed candidates (in hundreds) in a test from six different institutions.



From which institution is the difference between the appeared candidates and passed candidates the maximum?

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

Q61. Loan is to be repaid in two equal yearly instalments. If the rate of interest is 10% per annum, compounded annually, and each instalment is Rs.6,897, then find the total interest charged.

(a) Rs.1,644
(b) Rs.1,824
(c) Rs.1,914
(d) Rs.1,734

Q62. The value of sin 4θ+sin 2 θovercos 4θ+cos 2θ is:

(a) tan 3θ
(b) cot 3 θ
(c) tan θ
(d) cot θ

Q63. Calculate the area of the quadrilateral formed with the vertices (-3, 2), (5, 4),(7, -6) and (-5, -4).

(a) 80 square units
(b) 160 square units
(c) 0 square units
(d) 150 square units

Q64. A shopkeeper normally makes a profit of 20% in a certain transaction; he weights 900 g instead of 1 kg, due to an issue with the weighing machine. If he charges 10% less than what he normally charges, what is his actual profit or loss percentage?

(a) 20%
(b) 28%
(c) 25%
(d) 30%

Q65. Admissions into a commerce course of a university increase by 5% every year. If the number of admissions presently is 2400 into that course, after three years, the number of admissions is Nearest to an integer:

(a) 2778
(b) 2770
(c) 2775
(d) 2780

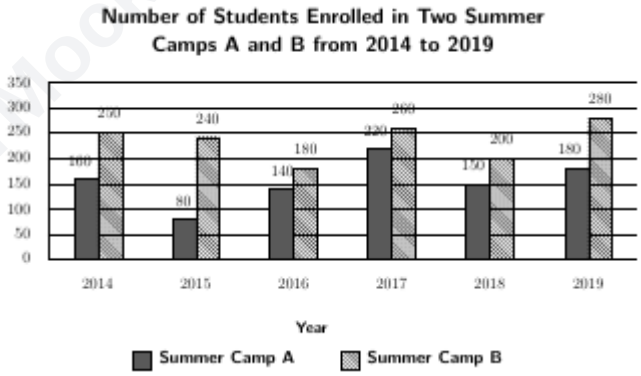
Q66. The fourth proportional to 5, 8 and 30 is:

(a) 50
(b) 60
(c) 48
(d) 90

Q67. If $x^2 + 4y^2 = 40$, $xy = 6$ and $x > 2y$ then the value of $x - 2y$ is:

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

Q68. The following Bar Chart shows the number of students enrolled in two Summer Camps A and B from 2014 to 2019. Study the charts carefully and answer the question that follows:



For the years 2014 to 2019, what is the ratio of the total number of students enrolled for Summer Camp A to that for Summer Camp B?

(a) 47 : 31
(b) 31 : 47
(c) 41 : 37
(d) 37 : 41

Q69. Study the given table and answer the question that follows.

The table shows the number of students doing various courses in various cities.

City	MBA	MCA	M.Sc.	M.Com.	M.A.	Total
Ahmedabad	1234	1384	1440	1289	1332	6679
Bengaluru	1156	1783	1874	1003	1340	7156
Bhopal	1187	1347	1532	1321	1486	6873
Chennai	1342	1473	1129	1765	1666	7375
New Delhi	1230	1098	1128	1865	1777	7098
Hyderabad	1456	1234	1556	1653	1789	7688
Kolkata	1239	1785	1865	1504	1762	8155

Which city has maximum number of student?

(a) Kolkata

(b) Bhopal
(c) Hyderabad
(d) Chennai

Q70. A man and a boy together can do a certain amount of digging in 24 days. Their speeds in digging are in the ratio of 4 : 3. How many days will the boy take to complete the work if engaged alone?

(a) 52 days
(b) 26 days
(c) 60 days
(d) 56 days

Q71. The value of x^2+y^2, when x = 1, y = 2 is _____

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

Q72. $9 \div [5 + 7 \div \{9 + 9 \div (9 + 9 \div 4)\}] = ?$

(a) 48over40
(b) 63over40
(c) 59over40
(d) 37over40

Q73. If the circumradius of an equilateral triangle is 18 cm, then the measure of its in-radius is:

(a) 9 cm
(b) 3 cm
(c) 10 cm
(d) 12 cm

Q74. In a class of 45 students, there are 20 girls who scored an average of 42 marks in a test of 50 marks. If the class average is 36, what are the average marks of the boys?

(a) 32.50
(b) 32.10
(c) 30.80
(d) 31.20

Q75. A number is increased by 10% and then the increased number is decreased by 20%. The net increase or decrease is:

(a) 18% decrease
(b) 2% decrease
(c) 12% decrease
(d) 12% increase

GENERAL AWARENESS

Q76. Who among the following cricketers won the orange cap in IPL 2021?

(a) KL Rahul
(b) Venkatesh Iyer
(c) Harshal Patel
(d) Ruturaj Gaikwad

Q77. Which type of carbohydrate CANNOT be broken down by the GI tract, does not provide energy, but helps the body get rid of wastes and keeps the intestinal tract healthy?

(a) Fibre
(b) Starch

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(c) Sugar
(d) Glycogen

Q78. Who among the following players wrote his autobiography entitled 'The Race of My Life'?
(a) Milkha Singh
(b) Mary Kom
(c) Yuvraj Singh
(d) Kapil Dev

Q79. Who among the following came up with his own style of dance call 'Hi-dance', which he later rechristened it and called it 'Creative dance'?
(a) Uday Shankar
(b) Rajendra Shankar
(c) Debendra Shankar
(d) Ravi Shankar

Q80. Who among the following Bharatanatyam exponents received the 'Chevalier of Arts and Letters award' from the Government of France in 2004?
(a) Mallika Sarabhai
(b) Sonal Mansingh
(c) Mrinalini Sarabhai
(d) Alarmel Valli

Q81. 'An Autobiography' is the name of the autobiography of _____.
(a) Jawaharlal Nehru
(b) Mahatma Gandhi
(c) Sardar Vallabhbhai Patel
(d) Subhash Chandra Bose

Q82. Who was the recipient of Nobel prize for literature in 2021?
(a) Bob Dylan
(b) Abdulrazak Gurnah
(c) Peter Handke
(d) Louise Gluck

Q83. S Balachander a famous musician from India is known for playing which of the following instruments?
(a) Sitar
(b) Veena
(c) Tabla
(d) Ghatam

Q84. The Kalaimamani awards are given in which of the following states of India?
(a) Tamil Nadu
(b) Telangana
(c) Kerala
(d) Odisha

Q85. Which Indian sportsperson has been nominated for the prestigious Laureus World Breakthrough of the Year Award 2022?
(a) Mithali Raj
(b) Neeraj Chopra
(c) Virat Kohli
(d) PV Sindhu

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Q86. What is the mode of adaptation done by aquatic plants and animals where the osmotic concentration of the body fluids changes with that of the ambient air and water osmotic concentration?

(a) Regulate
(b) Conform
(c) Migrate
(d) Suspend

Q87. Who among the following is an Indian Singer of Hindustani Classical Music?

(a) L Subramaniam
(b) Shubha Mudgal
(c) Kishan Maharaj
(d) Dwaram Venkataswamy Naidu

Q88. Which river basin covers an area of 65,145 km², of which about 80% liesin Maharashtra?

(a) Krishna
(b) Narmada
(c) Godavari
(d) Tapi

Q89. The first regional rural bank set up in India was _____.

(a) Grameen Bank
(b) Aarohan Bank
(c) Prathama Grameen Bank
(d) Vikas Bank

Q90. What is the maximum number of players that can be on the field during a football match in team?

(a) 12
(b) 9
(c) 10
(d) 11

Q91. Which violinist was conferred Pt. Bhimsen Joshi Lifetime Achievement Award for 2021?

(a) Lalgudi Vijaylakshmi
(b) Nandini MUthuswamy
(c) N Rajam
(d) Jyotsna Srikanth

Q92. The first playback song in Hindi Movies was recorded by music directors RC Boral and Pankaj Mullick in which year?

(a) 1939
(b) 1941
(c) 1943
(d) 1935

Q93. _____ government launched Dayanand Social Security Scheme 2022 for senior citizens, single women, disabled persons and HIV/AIDS patients.

(a) Goa
(b) Kerala
(c) Karnataka
(d) Maharashtra

Q94. Which of the following is NOT a federal feature of the Indian Constitution?

(a) Dual Government
(b) Division of Powers
(c) All India Service
(d) Written Constitution

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Q95. In 1869, who named a new term 'Oecologie' that defined the study of the relationship of organisms with their environment?

(a) Charles Elton
(b) Ernst Haeckel
(c) Eugene Odum
(d) Arthur Tansley

Q96. In which year was the Board of Control for Cricket in India established

(a) 1958
(b) 1938
(c) 1928
(d) 1948

Q97. Shobana Chandrakumar, a recipient of Padma Shri, is a dancer of which of the following India classical dance forms?

(a) Manipuri
(b) Bharatanatyam
(c) Kathak
(d) Odissi

Q98. One of the important minerals for the generation of nuclear energy is:

(a) Uranium
(b) mica
(c) manganese
(d) coal

Q99. What type of trees are found in the northern central Himalayan range (1801 to 3001 m) and the southern Nilgiri high mountain ranges?

(a) Oak, Junipers, Maple
(b) Kusum, Arjun, Mulberry
(c) Rosewood, Mahogany, Bamboo
(d) Teak, Sal, Peepal

Q100. Which group of animals has a body wall composed of both circular and longitudinal muscle fibres surrounded by a moist, cellular cuticle that is secreted by an epidermal epithelium?

(a) Arthropoda
(b) Annelida
(c) Platyhelminthes
(d) Coelenterata

ANSWER KEY

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

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SOLUTIONS

Q1. Answer: (a) hatred

The solution is in Hindi. Read it online.

Q2. Answer: (a) scene

The correct answer is option 1) i.e. 'scene'.

Key Points

• The given sentence is talking about the police have returned to the place where the crime was committed.

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

• According to the context, the word 'scene' means 'a place where an unpleasant event has happened.'

• Example:

• The investigation department has cordoned off the scene of the murder and ordered no one to enter the place.

• Hence, the correct answer is option 1.

Complete Sentence: The police returned to the scene of the crime.

Additional Information

• Let's know the meaning of other options:

Word	Meaning
Zen	a form of Buddhism, originally developed in Japan, that emphasizes that religious knowledge is achieved through emptying the mind of thoughts and giving attention to only one thing
Seen	to be conscious of what is around you by using your eyes

Q3. Answer: (b) uninhabited

The solution is in Hindi. Read it online.

Q4. Answer: (a) Fecilitation

The correct answer is option 1) i.e. “Fecilitation”.

Key Points

• The correct spelling is ‘Facilitation’.

• ‘Facilitation’ means the process of making something possible or easier.

• Example:

• The company focuses on the facilitation of tour and travel services.

• Therefore, 'Fecilitation' is incorrectly spelled among the given options.

• Hence, option 1 is the correct answer.

Additional Information

• Let's know the meaning of other options:

Word	Meaning
Resplendent	having a very bright or beautiful appearance
Jingoistic	related to the belief that your own country is always best
Segregation	to keep one thing separate from another

Q5. Answer: (b) I goes

The erroneous part is option 2) i.e. 'I goes.'

Key Points

• The error lies in the part 'I goes'

• We can note that the subject of the sentence is 'I' which is a first-person singular number.

• Therefore we should not add 's/es' after the verb.

• So the correct verb will be 'go.'

• In the given sentence we need to use 'go' instead of 'goes' to make the sentence grammatically correct.

• Hence, the correct answer is option 2.

Correct sentence: I go to school every day irrespective of the weather.

Q6. Answer: (b) Anonymous

The correct answer is option 2) i.e. 'Anonymous.'

Key Points

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

• Anonymous- a name that is not known or not made public.

• Example:

• The author of the folktale is anonymous.

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

• Anomalies- something that is unusual enough to be noticeable or seem strange.

• Renowned- the state of being famous.

• Undercover- working secretly using a false appearance in order to get information for the police or government.

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

• So, the correct answer is option 2.

Correct one-word substitute: Anonymous.

Q7. Answer: (d) in order to display the emotions

The correct answer is option 4) i.e. 'in order to display the emotions.'

Key Points

• The error lies in Part (for display the emotions) of the sentence.

• The structure of the given sentence is incorrect.

• According to the rules of grammar, after the word 'for' the 'ing form of verb' is used to explain the purpose of something. But, no such option is given here.

• Whereas, 'in order to with a present form of the verb' introduces a subordinate clause in a sentence to express the purpose of something.

• Example:

• Rohan works very hard in order to achieve his goal.

• Therefore, the use of 'for display the emotions' in the sentence should be replaced with 'in order to display the emotions' to make it grammatically correct.

• Therefore, the correct answer is Option 4.

Correct sentence: In this scene, a close-up shot was taken by the cameraman in order to display the emotions.

Q8. Answer: (b) Fatima and Sana have both taken the vaccine.

The correct sentence is option 2) i.e. 'Fatima and Sana have both taken the vaccine.'

Key Points

• The error lies in the part ' has' in the given sentence.

• We can note that there are two subjects 'Fatima' and 'Sana,' and they are connected by 'and'.

• According to rules of grammar, when two or more subjects are connected by 'and' then the verb will be also in plural form.

• In the given sentence we need to use 'have' instead of 'has' to make the sentence grammatically correct.

• Example:

• Rahul and Amit are going to school.

• Hence, the correct answer is option 2.

Correct sentence: Fatima and Sana have both taken the vaccine.

Q9. Answer: (a) unfriendly

The correct answer is option 1) i.e. 'unfriendly'.

Key Points

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

• Intimate- being a close, personal friend, or having a close, personal relationship.

• Unfriendly- having an attitude or acting in a way that shows you do not like people and do not care if they like you.

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

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• Affectionate- showing feelings of liking or love.
• Timely- happening at the best possible moment.
• Passionate- having very strong feelings or emotions.
• Hence from the given meanings, we find that ‘intimate’ and ‘unfriendly’ are antonyms.
• So, the correct answer is option 1.

Additional Information
• Let's look at the synonyms and antonyms for the given word 'intimate':
• Synonyms: confidant, confidante, associate, companion, comrade, familiar, lover, friendly.
• Antonyms: enemy, foe, opponent, stranger, unfriendly.

Q10. Answer: (d) is your.

The erroneous part is option 4) i.e. 'is your.'
Key Points
• The error lies in the part 'is your.'
• The word 'your' is a possessive adjective, whereas the word in the given sentence
• 'Yours' is used to indicate the ownership of something.
• In the given sentence we need to use 'yours' instead of 'your' to make the sentence grammatically correct.
• Example:
• Everyone knows that this book is yours.
• Hence, the correct answer is option 4.
Correct sentence: I am not sure if the red car in the parking slot is yours.

Q11. Answer: (a) called out

The solution is in Hindi. Read it online.

Q12. Answer: (c) Long time

The correct answer is option 3) i.e. “Long time.”
Key Points
• Let’s look at the meaning of the given idiom/ phrase:
• The phrase ‘Donkey's years’ means 'for a very long period of time.'
• Example:
• He has been preparing for job examinations for donkey's years.
• Hence, the only possible answer is option 3 ‘Long time’, which exactly resembles the meaning of the given idiom/ phrase.
Correct meaning: Long time.

Q13. Answer: (c) Circulate

The solution is in Hindi. Read it online.

Q14. Answer: (d) doesn't grows on trees

The erroneous part is option 4) i.e. 'doesn't grows on trees.'
Key Points
• The error lies in the part 'doesn't grows on trees'.
• We can note that the erroneous part contains the be verb 'doesn't' as the subject 'money' is an uncountable (which will be followed by verb in singular form)
• Therefore we have to use the verb 'grow' instead of 'grows'. (To make verb in singular form -addition of s/es to the main verb)
• In the given sentence we need to use 'grow' in place of 'grows' to make the sentence grammatically correct.
• Hence, the correct answer is option 4.
Correct sentence: My boss keeps telling me all the time that money doesn't grow on trees.

Q15. Answer: (d) BCDA

The correct answer is option 4) i.e. "BCDA."
Key Points
• In the above mentioned paragraph, there is a chronological sequence of the sentences.

• Statement B begins with the noun ‘Leadership’ and describes its purpose in relation to failure and success, it will be the first sentence.

• Statement C is an expletive sentence that begins with ‘There are' and it mentions that nowadays people lack leadership skills because they don't want to take responsibility.

• Statement D begins with the noun ‘ Ancient India’ and mentions that in Ancient India many people like Chandragupta Mourya, Gandhi, Buddha, and Bose emerged as powerful leaders and led the country.

• Statement A begins with the noun ‘These great leaders’ and describes that these leaders took responsibility and faced various challenges while changing the course of development of this country and eventually achieving greatness. So, it will be the last sentence.

• The correct arrangement is BCDA.

The correct passage is: (B) Leadership is one of the crucial elements in the field of management because most of the tie success or failure depends on the managerial skills of a leader. (C) There are not many leaders in the present world because, unlike ancient times, people are not ready to accept responsibilities. (D) Ancient India produced millions of people with leadership because it is an inner part of Indian culture to create leaders in every sphere of life. Chandragupta Mourya, Gandhi, Buddha, Bose etc. were leaders on this soil. (A) These great leaders never escaped from their responsibilities and challenges because they knew greatness would come through great responsibilities.

Q16. Answer: (b) innocous

The correct answer is option 2) i.e. “innocous”.

Key Points

• The correct spelling is ‘innocuous’.

• ‘Innocuous’ means 'completely harmless.'

• Example:

• Our pet dog Tommy is an innocuous animal.

• Therefore, 'innocous' is incorrectly spelled among the given options.

• Hence, option 2 is the correct answer.

Additional Information

• Let's know the meaning of other options:

Word	Meaning
Crouching	to bend your knees and lower yourself so that you are close to the ground and leaning forward slightly
Demolish	to completely destroy a building, especially in order to use the land for something else
Shoddy	badly and carelessly made, using low-quality materials

Q17. Answer: (c) To fail

The correct answer is option 3) i.e. “To fail.”

Key Points

• Let’s look at the meaning of the given idiom/ phrase:

• The phrase ‘Go to the wall’ means 'to be defeated, or losing in a conflict, or to fail in a task.'

• Example:

• Ranjan tried different ways to make his business successful but eventually, he went to the wall.

• Hence, the only possible answer is option 3 ‘To fail’, which exactly resembles the meaning of the given idiom/ phrase.

Correct meaning: To fail.

Q18. Answer: (b) Bliss

The correct answer is option 2) i.e. 'Bliss'.

Key Points

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

• Ecstasy- a state of extreme happiness, especially when feeling pleasure.

• Let's look at the meaning of the correct answer:

• Bliss- complete happiness.

• Clearly, the word 'Bliss' is closest in meaning to the given word 'Ecstasy'.

• Therefore, the correct synonym of the given word is 'Bliss'.

Additional Information

Let's know the meaning of other options

Word	Meaning
Mourning	to feel or express great sadness, especially because of someone's death
Fantasy	a pleasant situation that you enjoy thinking about but is unlikely to happen, or the activity of imagining things like this
Appreciation	the act of recognizing or understanding that something is valuable, important

Q19. Answer: (c) for coming out

The correct answer is option 4) i.e. 'for coming out.'

Key Points

• The error lies in Part (for your coming out) of the sentence.

• The structure of the given sentence is incorrect.

• In the underlined part the use of the possessive adjective 'your' is not required after the word 'for'.

• According to the rules of grammar, the 'for+ ing form of verb' is used to talk about the function or purpose of something.

• Therefore, the use of 'for your coming out' in the sentence should be replaced with 'for coming out' to make it grammatically correct.

• Therefore, the correct answer is Option 3.

Correct sentence: I would like to thank you for coming out tonight.

Q20. Answer: (d) were emptying out of

The correct answer is option 4) i.e. 'were emptying out of.'

Key Points

• The error lies in Part (was emptying out of) of the sentence.

• The structure of the given sentence is incorrect.

• In the given sentence the noun 'People' is plural in number. So we have to use the plural 'be verb' with it.

• The correct 'be verb' will be 'were.'

• Therefore, the use of 'was emptying out of ' in the sentence should be replaced with 'were emptying out of' to make it grammatically correct.

• Therefore, the correct answer is Option 4.

Correct sentence: People were emptying out of the malls and roads.

Q21. Answer: (d) human

The correct answer is option 4) i.e. 'human'.

Key Points

• The context of the concerned line is the definition of the figure of speech 'personification' as it gives human attributes to something that is non-human.

• According to the above-mentioned points, the most appropriate word is 'human'.

• 'Human' means 'relating to people.'

• Therefore, the correct answer is Option 4.

Correct Sentence: Personification gives human qualities to non-living things or ideas.

Additional Information

• Let's look at the meaning of other given words:

Word	Meaning
Supernatural	things that cannot be explained by science
Divine	connected with a god, or like a god

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Animal	something that lives and moves but is not a human, bird, fish, or insect

Q22. Answer: (c) readers

The correct answer is option 3) i.e. 'readers'.

Key Points

• The context of the concerned line is the definition of the figure of speech 'imagery' as it creates visual imagery in the mind of readers.

• According to the above-mentioned points, the most appropriate word is 'readers'.

• 'Readers' means 'someone who reads for pleasure.'

• Therefore, the correct answer is Option 3.

Correct Sentence: Imagery is a language used by poets, novelists and other writers to create images in the mind of the readers.

Additional Information

• Let's look at the meaning of other given words:

Word	Meaning
Actors	someone who pretends to be someone else while performing in a film, play, or television or radio programme
Speakers	a person who gives a speech at a public event

Q23. Answer: (a) pattern

The correct answer is option 1) i.e. 'pattern'.

Key Points

• The context of the concerned line is the definition of the figure of speech 'rhyme scheme' as it is the rhythmic pattern of sounds that is repeated at the end of a line or stanza of a poem.

• According to the above-mentioned points, the most appropriate word is 'pattern'.

• 'Pattern' means 'a particular way in which something is done, is organized or happens.'

• Therefore, the correct answer is Option 1.

Correct Sentence: Rhyme scheme is the pattern that is created at the end of the lines of poetry.

Additional Information

• Let's look at the meaning of other given words:

Word	Meaning
Visual	something such as a picture, photograph, or piece of film used to give a particular effect or to explain something
Word	a single unit of language that has meaning and can be spoken or written
Idea	a suggestion or plan for doing something

Q24. Answer: (a) actual

The correct answer is option 1) i.e. 'actual'.

Key Points

• The context of the concerned line is the definition of the figure of speech 'irony' as it expresses the meaning of something not in the actual literal sense but in the opposite sense.

• According to the above-mentioned points, the most appropriate word is 'actual'.

• 'Actual' means 'real or existing in fact.'

• Therefore, the correct answer is Option 1.

Correct Sentence: *Irony is defined as when actual meaning is completely...*

Additional Information

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• Let's look at the meaning of other given words:

Word	Meaning
Common	the same in a lot of places or for a lot of people
Superficial	appearing to be real or important when this is not true or correct
Unintentional	not intentional

Q25. Answer: (a) different

The correct answer is option 1) i.e. 'different'.

Key Points

• The context of the concerned line is the definition of the figure of speech 'irony' as it expresses the meaning of something not in the actual literal sense but in the opposite sense.

• According to the above-mentioned points, the most appropriate word is 'different'.

• 'Different' means 'not similar or same.'

• Therefore, the correct answer is Option 1.

Correct Sentence: ...meaning is completely different from the literal meaning.

Additional Information

• Let's look at the meaning of other given words:

Word	Meaning
Similar	looking or being almost, but not exactly, the same
Parallel	if two or more lines, streets, etc. are parallel, the distance between them is the same all along their length
Against	disagreeing with a plan or activity

Q26. Answer: (c) [figure]

The figure which will replace the question mark (?) in the given series is shown below:

The logic followed here is:

• Direction of arrows is changing from clockwise to anti-clockwise and vice-versa in every step.

• The no. of arrows are increasing by +1 in each step forward.

• The 4th figure has 4 arrows in anti-clockwise direction, so 5th figure will have 5 arrows in clockwise direction.

Hence, the correct answer is option 3).

Q27. Answer: (b) XAEF

The logic followed here is

The pattern in the given series is:

Here the first two characters are interchanged in every step and the rest two are increased by 2 positional value.

By following the pattern the next step will be:

Here we get NHQW.

Hence, the correct answer is NHQW.

Q28. Answer: (c) [figure]

After unfolding the given paper, the paper will appear like :-

Hence, the correct answer is Option 3).

Q29. Answer: (a) 7 : 337

The logic followed here is:

Second number = (First number)^3 - (First number)

1. 7 : 337 → 7^3 - 7 = 343 - 7 = 336 ≠ 337

2. 5 : 120 → 5^3 - 5 = 125 - 5 = 120

3. 4 : 60 → 43 - 4 = 64 - 4 = 60

4. 6 : 210 → 63 - 6 = 216 - 6 = 210

Hence, '7 : 337' is the odd one out.

Q30. Answer: (d) LCNUAH

The pattern followed here is:
In ABSENT : ANESBT,
In NOTIFY : NFITOY,
Similarly,
In LAUNCH: ?

We get 'LCNUAH'.
Hence, LCNUAH is the correct answer.

Q31. Answer: (d) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below :-
Detailed Explanation :-
• The line MN is the mirror.
• The word "
" ends with "
". So, the mirror image will start with "
" → Options 2 is eliminated.
• The second last word is "
". So, the second word in the mirror image will be "
"→ Options 1,3 are eliminated.
Hence, Option 4) is the correct answer.
Additional Information
• In a mirror image Left changes to rightand theright changes to leftwheretop and bottom remains the same.
• When placement of mirror not given, by default we will assume it in vertical direction.
• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q32. Answer: (a) 47 : 2116

The logic followed here is:
Second number = (First number)² - (2 × First number)
1. 47 : 2116 → 472 - (2 × 47) = 2209 - 94 = 2115 ≠ 2116
2. 53 : 2703 → 532 - (2 × 53) = 2809 - 106 = 2703
3. 24 : 528 → 242 - (2 × 24) = 576 - 48 = 528
4. 68 : 4488 → 682 - (2 × 68) = 4624 - 136 = 4488
Hence, '47 : 2116' is the odd one out.

Q33. Answer: (b) 31522518

According to the English alphabet series and its positional value:
The logic follows here is:
Positional values of the letter is the given coded number.
In BASKET,
B → 2 ; A → 1; S → 19; K → 11; E → 5; T → 20.
Hence, BASKET → 211911520
In BOX,
B → 2; O → 15; X → 24.
Hence, BOX → 21524
Similarly, In COVER →
C → 3; O → 15; V → 22; E → 5; R → 18.
So, COVER will be coded as 31522518.
Hence, "31522518" is the answer.

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Q34. Answer: (a) WDAL

The logic followed here is:-

TRAIN

T + 3 → W

R + 3 → U

A + 3 → D

I + 3 → L

N + 3 → Q

Therefore, code = WUDLQ

ROAD

R + 3 → U

O + 3 → R

A + 3 → D

D + 3 → G

Therefore, code = URDG

Similarly, TAXI

T + 3 → W

A + 3 → D

X + 3 → A

I + 3 → L

Therefore, code = WDAL

Hence, "WDAL" is the correct answer.

Q35. Answer: (d) 34 : 118

In the above question, following pattern is followed,

48 × 4 - (48 ÷ 2)= 168

52 × 4 - (52 ÷ 2)= 182

26 × 4 - (26 ÷ 2)= 91

34 × 4 - (34 ÷ 2)= 119 (not following the pattern)

Therefore, only option(4) is not following this pattern.

Hence, the correct answer is 34 : 118

Q36. Answer: (b) Monday

If an ordinary year comes immediately after a leap year, then the day on a certain date of the ordinary year will be 1 day ahead of the same date of the leap year from March to December.

Therefore,

01 March 2013 will be Friday

01 March 2014 will be Saturday

01 March 2015 will be Sunday

01 March 2016 will be Tuesday, because in year 2016, February will have 29 days.

29 February 2016 will be Monday.

Therefore, 01 February will be Monday.

Hence, the correct answer is Monday.

Q37. Answer: (b) +, -, ×, ÷, =

Given : 57 * 35 * 7 * 14 * 2 * 43

In this type of questions, we check the options and solve the equation

Option 1: ×, +, ÷, -, =

57 × 35 + 7 ÷ 14 - 2

= 57 × 35 + 0.5 - 2

= 1995 + 0.5 - 2

=1995.5 - 2

=1993.5, not equal to 43

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Option 2. +, -, ×, ÷, =
= 57 + 35 - 7 × 14 ÷ 2 = 43
= 57 + 35 - 7 × 7 = 43
= 57 + 35 - 49 = 43
= 92 - 49 = 43
= 43 = 43
Option 3. +, ÷, -, ×, =
57 + 35 ÷ 7 - 14 × 2 = 43
= 57 + 5 - 14 × 2 = 43,
= 57 + 5 - 7 = 43
= 62 - 7 = 43
= 55 not equal to 43
Option 4. -, ÷, +, ×, =
57 - 35 ÷ 7 + 14 × 2 = 43
= 57 - 5 + 14 × 2 = 43,
= 57 - 5 + 7
= 64 - 5
= 59 not equal to 43
Therefore, only option(2) is equating the equation.
Hence, the correct answer is "+, -, ×, ÷, ="

Q38. Answer: (d) 4

The logic followed here is:
Here, the sum of the digits of first number is divided by 3 to get the second number.
7 + 8 + 6 = 21, 21 ÷ 3 = 7
6 + 4 + 5 = 15, 15 ÷ 3 = 5
Similarly,
2 + 8 + 2 = 12, 12 ÷ 3 = 4
Hence, the correct answer is 4.

Q39. Answer: (d) 209

The logic followed here is:
In the above question, following pattern is followed,
(First number + 1)²+ First number = Second number
So, following the same pattern, we have
(9 + 1)²+ 9 = 109
(7 + 1)²+ 7 = 71
(13 + 1)²+ 13 = 209
Hence, the correct answer is 209.

Q40. Answer: (d) 168251927319

The logic followed here is:
Here, the consonants are coded as their position in the alphabets and vowels are coded as their position number multiplied by 3.
M = 13
A = 1 × 3 = 3 (vowel)
T = 20
H = 8
S = 19
So, MATHS = 13320819
H = 8
I = 9 × 3 = 27 (vowel)
N = 14
D = 4

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I = 9 × 3 = 27 (vowel)

So, HINDI = 82714427

Similarly,

P = 16

H = 8

Y = 25

S = 19

I = 9 × 3 = 27 (vowel)

C = 3

S = 19

So, PHYSICS = 168251927319

Hence, the correct answer is 168251927319.

Q41. Answer: (c) 175

The pattern followed is as follows,

Hence, the correct answer is 175

Q42. Answer: (c) 12

The logic followed here is:

In the above question, second term is the cube of first term,

8^3= 512

12^3= 1728

18^3 = 5832

Therefore, only option (3) is showing the correct answer.

Hence, the correct answer is 12.

Q43. Answer: (d) [figure]

The logic followed here is:

There is no relationship between hand, feet and chin.

Hence, the correct answer is option (4)

Q44. Answer: (a) m n n m n n

In the above series,

Option 1.

mnmmnno / mnmmnno / mnmmnno

Option 2.

mnomnno / mnmmnno / mnmmnno

Option 3.

mnmmnno / mommnno / mnmmnno

Option 4.

mnmmnno / mnmmnno / mommono

Only option(1) follows a common pattern m and n come 3 times and O comes once at the end.

The complete series is as follows mnmmnno/mnmmnno/mnmmnno

Hence, the correct answer is an option (1)

Q45. Answer: (b) [figure]

The logic followed here is:

When the mirror is placed vertically to the objects/ alphabets, then the image will be laterally inverted. In other words, the Left Hand Side and the Right Hand Side will interchange their positions, while top and bottom will remain same.

Therefore, only option (2) shows the correct mirror image.

Hence, the correct answer is option(2)

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Q46. Answer: (b) 4 and 6

The logic followed here is

By using BODMAS Rule (Brackets of division, multiplication, addition, subtraction) and going with the options,

Option 1) 6 and 16

Given equation:15 - 4 + (8 × 6) ÷ 16 + 9 × 3 - 7 = 31

By interchanging 6 and 16 in the given equation.

Interchanged equation is : 15 - 4 +(8 × 16) ÷ 6 + 9 × 3 - 7 = 31

= 15 - 4 + 128 ÷ 6 + 27 - 7 =31

= 15 - 4 + 21.333 + 20 = 31

= 56.33 - 4 = 31

= 52.333 ≠ 31

=> LHS ≠ RHS

Option 2) 4 and 6

Given equation:15 - 4 + (8 × 6) ÷ 16 + 9 × 3 - 7 = 31

By interchanging 4 and 6 in given equation.

Interchanged equation is:15 - 6 + (8 × 4) ÷ 16 + 9 × 3 - 7 = 31

= 15 - 6 + 32 ÷ 16 + 27 - 7 = 31

= 15 - 6 + 2 + 20 = 31

= 37 - 6 = 31

= 31 = 31

=> LHS = RHS

Option 3): 8 and 16

Given equation:15 - 4 + (8 × 6) ÷ 16 + 9 × 3 - 7 = 31

By interchanging 8 and 16 in given equation.

Interchanged equation is: 15 - 4 + (16 × 6) ÷ 8 + 9 × 3 - 7 = 31

= 15 - 4 + 96 ÷ 8 + 27 - 7 =31

= 15 - 4 + 12 + 7 = 31

= 15 - 4 + 12 + 7 = 31

= 34 - 4 = 31

=30 ≠ 31

=> LHS ≠ RHS

Option 4): 4 and 3

Given equation: 15 - 4 + (8 × 6) ÷ 16 + 9 × 3 - 7 = 31

By interchanging 4 and 3 in given equation.

Interchanged equation is: 15 - 3 + (8 × 6) ÷ 16 + 9 × 4 - 7 = 31

= 15 - 3 + 48 ÷ 16 + 9 × 4 - 7 = 31

= 15 - 3 + 3 + 9 × 4 - 7 = 3

= 15 - 3 + 3 + 36 - 7 = 31

= 54 - 3 - 7 = 31

= 44 ≠ 31

=> LHS ≠ RHS

Thus, the correct answer is 4 and 6.

Q47. Answer: (b) Sunday

The logic followed here is

In any two consecutive ordinary years, date of the next year will be one day ahead of the same day of the previous year.

Therefore,

20 February 2014 = Thursday

20 February 2015 = Friday

20 February 2016 = Saturday

28 February is 8 days ahead of 20 February, the number of odd day = 8 - 7 = 1

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Therefore, 28 February will be Sunday.
Hence, the correct answer is Sunday.

Q48. Answer: (a) 387

The pattern is as follows-
Hence, the correct is 387.

Q49. Answer: (c) [figure]

The pattern formed will be as follows
Hence, the correct answer is option (3)

Q50. Answer: (b) [figure]

The embedded is as follows:
Hence, The correct answer is option (2)

Q51. Answer: (d) Rs.30,600

Given:
Marked price of an article is Rs. 36, 000
Discount % = 11% and which further increases by 15%.
Concept used:
S.P = (100- Discount)/100
Calculation:
According to the Question,
Discount % = 11%
=> Final Discount % = 15%
Now, Selling price = (100-Discount%)/100 × 36, 000
=> S.P = (100-15)/100 × 36, 000
=> S.P = 85/100 ×36, 000
=> S.P = Rs. 30, 600
Therefore Required S.P = Rs. 30,600.

Q52. Answer: (d) 19

Given:
(59×59×59)+(54×54×54)+(57×57×57)-3(59)(54)(57) over(59+54+57)
Formula used:
$a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ac)$
Calculations:
(59×59×59)+(54×54×54)+(57×57×57)-3(59)(54)(57) over(59+54+57)
=> $(59)^3+(54)^3+(57^3)$-3(59)(54)(57) over(59+54+57)
Using $a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ac)$
=> $54^2 + 59^2 + 57^2$ - (3186 + 3363 + 3078)
=> 2916 + 3481 + 3249 - 9627
=> 9646 - 9627 = 19
Therefore The simplified value is 19.
Shortcut Trick
$a^3 + b^3 + c^3 - 3abc = 1/2(a + b + c)[(a - b)^2 + (b - c)^2 + (c - a)^2]$
a = 59, b = 57 and c = 54
so
$= (1/2)(2^2 + 3^2 + 5^2)$
= (1/2)(4 + 9 + 25)
= 19

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Q53. Answer: (d) 887.04 cm²

Given:

Diameter of sphere is 16.8 cm.

Formula used:

The surface area of a Sphere = $4\pi r^2$

Calculations:

Since the diameter is 16.8 cm, radius is 8.4 cm

Now,

The surface area of Sphere,

=> 4 × 22/7 × $(8.4)^2$= 887.04 cm^(2.)

Therefore The Surface area of sphere is 887.04 cm^2.

Shortcut Trick Answer should be the multiple of 11 as the surface area of sphere is the multiple of π. And out of all the option we have only one such option that is 887.04 cm^2

Q54. Answer: (a) 13 km/h

Given:

Suraj travels 124 km at a speed of 31 km/h by bus,

96 km at a speed of 16 km/h using a car,

and another 105 km at 7 km/h by car.

Formula used:

Average speed = Total distance Travelled/Total time taken

Calculations:

Total distance travelled= 124 + 96 + 105

Total time taken = 124/31+96/16+105/7

Average speed = (124+96+105)/(124/31+96/16+105/7)

Average speed = 325/(4+6+15)

Average speed = 325/25 = 13 km/h

Therefore The average speed is 13 km/h.

Q55. Answer: (c) 185592

• Concept used:

The divisibility rule of 3 states that a number is completely divisible by 3 if the sum of its digits is divisible by 3.

The divisibility rule of 11 states that the difference between the sum of the digits at even places and odd places is either be 0 or divisible by 11.

Calculations:

Factors of the number 33 is

=> 33 = 3 × 11

So, the number which is divisible by 33 is also divisible by 3 and 11

Now, we go through option elimination method

Option (1) is 178750

=> 178750 = 1 + 7 + 8 + 7 + 5 + 0 = 28 [not divisible by 3]

Option (2) is 164461

=> 164461 = 1 + 6 + 4 + 4 + 6 + 1 = 22 [not divisible by 3]

Option (3) is 185592

=> 185592 = 1 + 8 + 5 + 5 + 9 + 2 = 30 [divisible by 3]

Option (4) is 171116

=>171116 = 1 + 7 + 1 + 1 + 1 + 6 = 17 [not divisible by 3]

Now, Check 185592 is divisible by 11 or not

Take the sum of digits at odd places,

=> 1 + 5 + 9 = 15

Take the sum of digits at even places,

=> 8 + 5 + 2 = 15

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Difference between the sum of the digits at even places and odd places is
=> 15 – 15 = 0
And, 0 is divisible by 11
So, 185592 is divisible by 33
Therefore 185592 is divisible by 33
-

Q56. Answer: (c) 12%

Given:
A mobile is marked at a price 25% above its cost price.
Profit = 10%
Formula used:
SP = (100+Profit)/100×CP
Calculations:
Let CP of the article be Rs. 100
MP of the article = Rs. 125
SP of the article = 100 × (110/100)
= Rs. 110
Discount = 125 – 110 = 15
Discount percentage = 15/125 × 100 = 12%
Hence, the Discount percentage is 12%.
Shortcut Trick
Short Trick:
10 = 25 – x – (25x/100)
10 = 25 – x – x/4
5x/4 = -15
x = - 12%

Q57. Answer: (d) 2444 kg

Given:
The average weight of 52 girl is 47 kg.
Formula used:
Average = sum of observations / no. of observations
Calculations:
Let the sum of weight of 52 girls be x.
According to question,
Average = sum of observations / no. of observations
=> 47 = x/52
=> x = 2444
Therefore The sum of weight of 52 girls is 2444 kg.

Q58. Answer: (c) 1 : 8

Given:
=> r : R = 7 : 14 = 1 : 2
Where r is radius before pumping and R is radius after pumping air.
Concept used:
In case of sphere,
=> v : V = r^3: R^3
Calculations:
According to the concept,
=> v : V = r^3 : R^3 = 7^3: 14^3
=> 1^3 : 2^3 = 1 : 8
Therefore The ratio of Volume of Sphere before and after pumping is 1:8.

Q59. Answer: (b) 35 years

Given:

The average of man and his son is 56 years.

The ratio of their ages is 11 : 5.

Calculations:

Total age = Average age × number of people

=> Total age of man and his son = 56 × 2 = 112 years

Ratio of their ages = 11 : 5

Let the ratio of age of man and son be 11x : 5x

=> 11x + 5x = 112 years or x = 7 years

Therefore Age of son = 5x = 5 × 7 = 35 years.

Q60. Answer: (b) D

Given:

Calculations:

Difference between appeared students and passed students in institution A = 16 - 12 = 4

Difference between appeared students and passed students in institution B = 24 - 20 = 4

Difference between appeared students and passed students in institution C = 14 - 8 = 6

Difference between appeared students and passed students in institution D = 34 - 26 = 8

Difference between appeared students and passed students in institution E = 20 - 18 = 2

Therefore Difference between appeared students and passed students is maximum in institution D.

Q61. Answer: (b) Rs.1,824

Given:

Amount of each installment = Rs. 6,897

Rate of interest compounded annually = 10%

Number of years (n) = 2

Concept used:

P = A/[1 + (R/100)]n

Interest = 2 × Installment – P

Calculation:

Let the loan amount be P.

P = 6897/[1 + (10/100)] + 6897/[1 + (10/100)]2

=> P = 6897 [1 / (1 + 1/10) + 1 / (1 + 1/10)2]

=> P = 6897 [1 / (11/10) + 1/ $(11/10)^2$]

=> P = 6897 [10/11 + $(10/11)^2$]

=> P = 6897 [10/11 + 100/121]

=> P = 6897 [(110 + 100)/121]

=> P = 6897 × 210/121

=> P = 57 × 210 = 11970

Interest = 2 × 6897 – 11970

=> 13794 – 11970 = 1824

Therefore The total interest charged in this scheme is Rs. 1,824.

Q62. Answer: (a) tan 3θ

Formula used:

sinA + sinB = 2 sin (A+B)/2 cos (A-B)/2

cosA + cosB = 2 cos (A+B)/2 cos (A-B)/2

Calculations:

sin 4θ+sin 2 θovercos 4θ+cos 2θ

= (2sin3θ cosθ)/(2cos3θ cosθ)

= tan3θ

Therefore The simplified value is tan3θ.

Q63. Answer: (a) 80 square units

Given:

Quadrilateral formed with the vertices (-3, 2), (5, 4),(7, -6) and (-5, -4).

Concept:

Area of quadrilateral ABCD = (1/2) ? [(x1y2 + x2y3 + x3y4 + x4y1) – (x2y1 + x3y2 + x4y3 + x1y4)]

Calculations:

Let A(-3, 2), B(5, 4), C(7, -6) and D(-5, -4) be the vertices of a quadrilateral ABCD.

Thus,

A(-3, 2) = (x1, y1)

B(5, 4) = (x2, y2)

C(7, -6) = (x3, y3)

D(-5, -4) = (x4, y4)

We know that,

Area of quadrilateral ABCD = (1/2) ? [(x1y2 + x2y3 + x3y4 + x4y1) – (x2y1 + x3y2 + x4y3 + x1y4)]

Substituting the values,

= (1/2). {[-3(4) + 5(-6) + 7(-4) + (-5)2] – {[5(2) + 7(4) + (-5)(-6) + (-3)(-4)]}

= (1/2).[(-12 – 30 – 28 – 10) – (10 + 28 + 30 + 12)]

= (1/2) [-80 – 80]

= 160/2 {since area cannot be negative}

= 80

Therefore The area of the quadrilateral formed with the given vertices is 80 sq. units.

Q64. Answer: (a) 20%

Shortcut Trick

Net multiplier = (Price ratio) × (Weight ratio)

Price ratio = Normal profit × New discount = 1.20 × 0.90 = 1.08

Weight ratio = True weight / False weight = 1000 / 900 = 10 / 9

Actual Profit multiplier = 1.08 × (10 / 9) = 1.2

Profit % = (1.2 − 1) × 100 = 20%

Therefore The correct answer is 20%.

Alternate Method

Given:

Normal profit = 20%

False weight = 900 g instead of 1 kg (1000 g)

Discount on normal SP = 10%

Standard: 1000g

Actual: 900g (CP)

Normal SP (120%)

New SP: 108%

Profit vs 900g

Actual Gain: 20%

Calculations:

=> Let Cost Price (CP) of 1000 g be 1000 units.

=> Normal Selling Price (SP) = CP + 20% of CP = 1000 + 200 = 1200 units.

=> Actual weight used = 900 g.

=> Cost Price for shopkeeper for 900 g (Actual CP) = 900 units.

=> New Selling Price = Normal SP − 10% of Normal SP

=> New SP = 1200 − (0.10 × 1200) = 1200 − 120 = 1080 units.

=> Actual Profit = New SP − Actual CP = 1080 − 900 = 180 units.

=> Actual Profit % = (Actual Profit / Actual CP) × 100

=> Profit % = (180 / 900) × 100 = 20%.

Therefore The correct answer is 20%.

Additional Information

Dishonest Dealer Formula

Profit % = [(True Weight / False Weight) × (SP / CP) − 1] × 100. This handles both weight and price changes together.

Weight Error Profit

If a dealer sells at CP but uses a false weight, Profit % = [Error / (True Weight − Error)] × 100.

Successive Percentage Change

For two successive changes x% and y%, the net change = [x + y + (xy/100)]%.

Q65. Answer: (a) 2778

Given:

Principal amount = 2400

Rate = 5% per annum

Time = 3 years

Formula used:

Amount = P (1+R/100) ^(Time)

Calculations:

Amount = P (1+R/100) Time

= 2400 (1+5/100) ³

= 2400 (21/20) ³

= 2400 × 9261/8000

= 2778.3 ≈ 2778

Hence, Number of admission after 3 year is nearest to 2778.

Q66. Answer: (c) 48

Concept Used:

a/b = c/d,

Where d is the fourth proportional of a, b, and c

Calculation:

Using the concept,

Let the fourth proportional be x

=> 5/8 = 30/x

=> x = 6 × 8

=> x = 48

Therefore Fourth proportional of 5, 8 and 30 is 48.

Q67. Answer: (d) 4

Given:

x2 + 4y2 = 40, xy = 6 and x > 2y.

Formula used:

$a^2 + b^2 = (a - b)^2 + 2ab$

Calculations:

According to question,

$x^2 + 4y^2 = (x - 2y)^2 + 4xy$ Therefore (x2 + 4y2 = x2 - 4xy + 4y2 + 4xy)

=> $(x - 2y)^2 = 40 - 4(6)$

=> (x - 2y) = (16)^(1/2)

Hence, x - 2y = 4

Therefore The value of (x - 2y) is 4.

Q68. Answer: (b) 31 : 47

Given:

Bar Chart shows the number of students enrolled in two Summer Camps A and B from 2014 to 2019.

Calculations:

Sum of no. of students in camp A = 930

Sum of no. of students in camp B = 1410
Hence, Ratio between them is
= 930 : 1410
= 31 : 47
Therefore The ratio between students in camp A and camp B = 31 : 47.

Q69. Answer: (a) Kolkata

Given:
The no. Of students doing different courses in different cities.
Calculations:
According to question,
Kolkata has 8155 students as whole from all different courses.
Therefore Kolkata has maximum no. of students.

Q70. Answer: (d) 56 days

Given:
A man and a boy can together do a work in 24 days.
Efficiency can be written as Men: Boy = 4:3
Concept:
Number of Men × Number of days = constant
Calculations:
Efficiency can be written as Men: Boy = 4 : 3
So 1Man work = 4x (where x is any number)
1 Boy work = 3x
We know that,
Number of Men × Number of days = constant
(Man + Boy) × 24 = (Boy) × Days
=> 7x × 24 = 3x × Days
Days = 56
Therefore Number of days boys will take to complete the work is 56.

Q71. Answer: (b) 5

Given:
x = 1, y = 2
Calculations:
$x^2+ y^2$
$= (1)^2 + (2)^2$
= 1 + 4
= 5
Therefore The value of $x^2 + y^2$ is 5.

Q72. Answer: (b) 63over40

Given:
9 ÷ [5 + 7 ÷ {9 + 9 ÷ (9 + 9 ÷ 4)}] = ?
Concept Used:
Calculations:
9 ÷ [5 + 7 ÷ {9 + 9 ÷ (9 + 9 ÷ 4)}]
= 9 ÷ [5 + 7 ÷ {9 + 9 ÷ (9 + 9/4)}]
= 9 ÷ [5 + 7 ÷ {9 + 9 ÷ (45/4)}]
= 9 ÷ [5 + 7 ÷ {9 + 9 × 4/45 }]
= 9 ÷ [5 + 7 ÷ { 9 + 4/5 }]
= 9 ÷ [5 + 7 × 5/49]
= 9 ÷ [5 + 5/7]

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= 9 × 7/40

= 63/40

Therefore The Required simplified value is 63/40.

Q73. Answer: (a) 9 cm

Given:

Circumradius of equilateral triangle = 18 cm.

Formula used:

Inradius of equilateral triangle = side/2√3

Circumradius of equilateral triangle = side/√3

Calculations:

Circumradius of equilateral triangle = side/√3

=> 18 = Side/√3

=> Side = 18√3

Inradius of equilateral triangle = side/2√3

=> 18√3/2√3 = 9

Therefore The inradius of the triangle is 9 cm.

Shortcut TrickThe ratio of circumradius and inradius in equilateral triangle is 2 : 1

So if the circumradius is 18 then the inradius is 9.

Q74. Answer: (d) 31.20

Given:

Total students in class = 45

There are 20 girls who scored an average of 42 marks a test of 50 marks.

The class average is 36.

Calculations:

Let the average marks scored by boys be a.

According to the question

=> Average of class = 36 = (42 × 20 + 25 × a)/45

=>1620 – 840 = 25a

=> a = 780/25 = 31.20

Therefore Boys average marks are 31.20.

Q75. Answer: (c) 12% decrease

Shortcut Trick

Use the successive percentage change formula: Net Change % = a + b + (a × b)/100

Here, a = +10% (increase) and b = −20% (decrease).

Net Change = 10 − 20 + (10 × (−20))/100

Net Change = −10 − 2 = −12%

Negative sign indicates a decrease.

Therefore The correct answer is 12% decrease.

Alternate Method

Given: Initial increase = 10%, Subsequent decrease = 20%.

Formula: Final Value = Initial Value × (100 + r1)/100 × (100 + r2)/100

Initial: 100

+10%

Step 1: 110

−20%

Final: 88

Net Change: 100 → 88 = 12% decrease

=> Let the initial number be 100.

=> Number after 10% increase = 100 + (10% of 100) = 110.

=> Number after 20% decrease = 110 − (20% of 110).

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=> 20% of 110 = (20 ÷ 100) × 110 = 22.

=> Final number = 110 − 22 = 88.

=> Net decrease = Initial − Final = 100 − 88 = 12.

=> Net decrease percentage = (12 ÷ 100) × 100 = 12%.

Therefore The correct answer is 12% decrease.

Additional Information

Successive Percentage Formula

For two successive changes of x% and y%, the net change is given by [x + y + (xy/100)]%. Use positive for increase and negative for decrease.

Product Stability Ratio

If a value increases by x/y, it must decrease by x/(x+y) to return to the original value.

Successive Discounts

If two discounts d1% and d2% are given, the single equivalent discount is [d1 + d2 − (d1 × d2)/100]%.

Q76. Answer: (d) Ruturaj Gaikwad

The correct answer is Ruturaj Gaikwad.

Key Points

• In 2021, Ruturaj Gaikwad became the first uncapped Indian player to win the Orange Cap.

• The Chennai Super Kings opener smacked 635 runs in 16 matches, striking at 136.27 with an average of 45.36. Consequently, CSK also managed to win the title in 2021.

• Jos Buttler wins the Orange Cap with 863 runs in 2022.

• He is followed by KL Rahul, Quinton De Kock, Hardik Pandya, and Shubman Gill.

Additional Information

• Venkatesh was the revelation of IPL 2021, where he scored 370 runs in 10 innings at a strike rate of 128.47 for Kolkata Knight Riders (KKR) in the second phase of IPL 2021.

• The fast bowler, Harshal Patel, won the Purple Cap in the 2021 edition of the league with 32 wickets

• In IPL 2021, KL Rahul amassed 616 runs in 13 matches.

Q77. Answer: (a) Fibre

The correct answer is Fibre.

Key Points

• Fibre is a type of carbohydrate that the body can't digest.

• Though most carbohydrates are broken down into sugar molecules called glucose, fibre cannot be broken down into sugar molecules, and instead, it passes through the body undigested.

• Dietary fibre comes from plant-based foods that contain cellulose, hemicellulose, lignin, pectin, mucilage, and gum.

• Your digestive system lacks the enzymes to break down these food components, and they travel through your gut without being digested.

Additional Information

• Starch is a soft, white, tasteless powder that is insoluble in cold water, alcohol, or other solvents.

• The basic chemical formula of the starch molecule is $(C_6H_{10}O_5)_n$.

• Sugar is the generic name for sweet-tasting, soluble carbohydrates, many of which are used in food.

• This stored form of glucose is made up of many connected glucose molecules and is called glycogen.

Q78. Answer: (a) Milkha Singh

The correct answer is Milkha Singh.

Key Points

• The Race of My Life: An Autobiography is the autobiography of Indian athlete Milkha Singh.

• He composed it with his daughter Sonia Sanwalka.

• The film Bhaag Milkha Bhaag is based on it.

• Milkha Singh shares the amazing highs of winning India's first-ever gold in athletics at the Commonwealth Games.

• The unbridled joy of being hailed as the 'Flying Sikh' in Pakistan, as well as the shattering low of failure at the Olympics.

Additional Information

• Unbreakable: An Autobiography is the autobiography of the unbreakable Mary Kom who never let anything come between her and her quest for winning.

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• The book “The Test of My Life: From Cricket to Cancer and Back” is an autobiography of Yuvraj Singh.

• It's an amazing autobiography written by Great Cricket Legend "Kapil Dev"." The Straight from the Heart" is a highly motivational and highly inspirational book.

Q79. Answer: (a) Uday Shankar

The correct answer is Uday Shankar.

Key Points

• Fusing European theatrical techniques with India's very own classical and folk dance forms, Uday Shankar came up with his own style of dance.

• After having named the new dance form 'Hi-dance', he later rechristened it and called it 'Creative dance'.

• Uday Shankar (8 December 1900 – 26 September 1977) was an Indian dancer and choreographer, best known for creating a fusion style of dance.

• Uday Shankar was the first to bring the concept of modern dance to India with his novel approach and works.

Additional Information

• The Hindu god Shiva, known as Nataraja, Lord of the Dance, is portrayed as a many-armed being balanced on one leg.

• In Hindu mythology, dance is thought to have been conceived by Brahma. Brahma motivated the sage Bharata Muni to write the Natya Shastra, a treatise on performing arts, from which a codified practice of dance and drama come out.

• The classical dance form originated from the Natya Shastra. There are 8 classical dance forms in India as per the source and scholar.

Q80. Answer: (d) Alarmel Valli

The correct answer is Alarmel Valli.

Key Points

• Alarmel Valli is a leading Indian classical dancer and choreographer and the foremost exponent of the Pandanallur style, in the Indian classical dance form, Bharatanatyam.

• She is widely acclaimed for her ability to turn traditional grammar into a deeply internalized, personal dance poetry.

• She founded The Dipasikha Dance Foundation in Chennai in 1984, where she teaches Bharatanatyam.

• In 1991, Alarmel Valli was the second youngest dancer to be conferred the Padma Shri from the Government of India, after Vyjayanthimala.

Additional Information

• Mallika Sarabhai is an activist and Indian classical dancer and actress from Ahmedabad, Gujarat, India.

• Sonal Mansingh, (born April 30, 1944, in Bombay), was a dancer of Odissi, a classical Indian dance form that originated in Orissa, and other Indian classical forms.

• Mrinalini Vikram Sarabhai (11 May 1918 – 21 January 2016) was an Indian classical dancer, choreographer and instructor.

Q81. Answer: (a) Jawaharlal Nehru

The correct answer is Jawaharlal Nehru.

Key Points

• An Autobiography, also known as Toward Freedom (1936), is an autobiographical book written by Jawaharlal Nehru while he was in prison between June 1934 and February 1935, and before he became the first Prime Minister of India.

• The first version was issued in 1936 by John Lane, The Bodley Head Ltd, London, and has since been through more than 12 editions and translated into more than 30 languages.

• It has 68 chapters over 672 pages and is published by Penguin Books India.

• As stated by Walter Crocker, had Nehru not been popular as India's first prime minister, he would have been popular for his autobiography.

Additional Information

• Gandhi's autobiography, which he titled 'My experiments with Truth' can be rated as one of the most popular and the most influential books in recent history.

• There is no autobiography of Sardar Vallabhbhai Patel.

• An Indian Pilgrim: An Unfinished Autobiography is the autobiography of Subhash Chandra Bose.

Q82. Answer: (b) Abdulrazak Gurnah

The correct answer is Abdulrazak Gurnah.

Key Points

• The 2021 Nobel Prize for Literature was awarded to Tanzanian novelist Abdulrazak Gurnah "for his immovable and pitying

penetration of the results of colonialism and the fate of the refugee in the gulf between cultures and continents."

• Gurnah's latest novel from 2020, "Afterlives," deals with racism, submission and sacrifice.

• Gurnah, now in his early 70s, has recently retired from his position as Professor of English and Postcolonial Literature at the University of Kent, Canterbury.

Additional Information

• The Nobel Prize in Literature 2016 was awarded to Bob Dylan "for having created new poetic expressions within the great American song tradition."

• Austrian writer Peter Handke received the 2019 Nobel Prize in literature. The award is for “a writer's life work,” and Handke has written novels, travelogues, theatre plays, screenplays and poetry.

• Louise Elisabeth is an American poet and essayist. She won the 2020 Nobel Prize in Literature, whose judges praised "her unmistakable poetic voice that with austere beauty makes individual existence universal".

Q83. Answer: (b) Veena

The correct answer is Veena.

Key Points

• Balachander, is the unchallenged king of the veena on which he plays Carnatic music with dazzling virtuosity.

• S. Balachander, is the unchallenged king of the veena on which he plays Carnatic music with dazzling virtuosity.

• He directed, produced, and also composed music for a few of his films. Balachander was awarded the Padma Bhushan in 1982.

• He died of a massive heart attack at the age of 63, while on a music tour of India.

Additional Information

• Ravi Shankar born Robindro Shaunkor Chowdhury sometimes spelt as Rabindra Shankar Chowdhury; was an Indian sitarist and composer. A sitar virtuoso, he became the world's best-known exponent of North India

• n classical music in the second half of the 20th century.

• Zakir Hussain: Arguably India's most famous tabla virtuoso in the post-independence era, Zakir Hussain is a recipient of the Padma Bhushan and Padma Shri and the Sangeet Natak Akademi Award.

• Thetakudi Harihara Vinayakram also known as Vikku Vinayakram, is an Indian percussionist.

• He is also known as the God of ghatam.

Q84. Answer: (a) Tamil Nadu

The correct answer is Tamil Nadu.

Key Points

• The Kalaimamani is the highest civilian award in the state of Tamil Nadu, India.

• These awards are given by the Tamil Nadu Iyal Isai Nataka Mandram (literature, music and theatre), a unit of the Directorate of Art and Culture, Government of Tamil Nadu, to acknowledge artists in the state for their attainment.

• Susheela and Jamuna Rani and Bharatanatyam artistes Ambika Kameshwar and Parvathi Ravi Ghantasala have been named for the Puratchi Thalaivi Dr J. Jayalalithaa Special Kalaimamani Awards for 2019 and 2020 by the Tamil Nadu government.

• The Tamil Nadu government has appointed dancer Chitra Visweswaran as the secretary of Tamil Nadu Iyal Isai Nataka Manram.

Additional Information

• The Global Indian Music Academy Awards are presented annually by Global Indian Music Academy to honour and recognise Indian music.

Q85. Answer: (b) Neeraj Chopra

The correct answer is Neeraj Chopra.

Key Points

• India's Neeraj Chopra was nominated for the prestigious 'Laureus World Breakthrough of the Year' award 2022 for his historic gold medal win at the Tokyo 2020 Olympics.

• Indian Tokyo Olympics gold medallist Neeraj Chopra became only the 3rd Indian to be nominated for Laureus World Sports Awards

• He is the first Asian athlete to win an Olympic gold medal in men's javelin throw.

• On 14 June 2022, Chopra marked his return with a new national record of 89.30m that he set at the Paavo Nurmi Games in Turku.

• Additional Information

• Mithali Dorai Raj is an Indian cricketer who plays as a right-handed batter. She played for India between 1999 and 2022, and captained the side between 2004 and 2022.

• Virat Kohli is regarded as the one of the best batsman in the world and is also known as the king of cricket.

• Pusarla Venkata Sindhu is an Indian badminton player. Considered one of India's most successful sportspersons.

Q86. Answer: (b) Conform

The correct answer is Conform.

Key Points

• The aquatic organisms in which the osmotic concentration and temperature of the body change according to the ambient conditions of water are referred to as conformers.

• The natural source of water that is present in our surroundings in the environment like in ponds, lakes, rivers etc. is termed as ambient water.

• The osmotic concentration of that water is 'ambient water osmotic concentration'.

• Osmoregulation is the active regulation of the osmotic pressure of an organism 's fluids to maintain the homeostasis of the organism 's water content.

Additional Information

• Migrate - to move from one country or region to another Families migrated west in search of work.

• Suspend - The state in which the particles of a substance are dispersed but not totally dissolved in a fluid.

• Biological regulation is what allows an organism to handle the effects of a perturbation, modulating its own constitutive dynamics in response to particular changes in internal and external conditions.

Q87. Answer: (b) Shubha Mudgal

The correct answer is Shubha Mudgal.

Key Points

• Shubha Mudgal is a famous Indian singer of 'Hindustani classical music.

• Her repertoire includes the genres of Khyal, thumri, Dadra, and Indian pop.

• She has received Padma Shri in 2000.

• Shubha grew up in Allahabad and after finishing school, attended St. Mary's Convent Inter College. As children, she and her sister were sent by their artistic-minded parents to a dance class to learn kathak.

Additional Information

• Sripathi Panditaradhyula Balasubrahmanyam also known as SPB or Balu, was an Indian playback singer, television presenter, music director, actor and film producer who worked predominantly in Telugu, Tamil, Kannada, Hindi and Malayalam films.

• Pandit Kishan Maharaj was an Indian tabla player who belonged to the Benares Gharana of Hindustani classical music.

• Dwaram Venkataswamy Naidu was one of the most important Carnatic music violinists of the 20th century.

Q88. Answer: (d) Tapi

The correct answer is Tapi Basin.

Key Points

• The Tapi Basin is situated in the northern part of the Deccan Plateau and extends over an area of 65145 sqkm which is nearly 2% of the total geographical area of the country.

• Nearly 80% of the basin lies in the State of Maharashtra.

• It lies between 72°33’ to 78°17’ east longitudes and 20°9’ to 21°50’ north latitudes.

• The basin is bounded by the Satpura range on the north, by the Mahadev hills on the east, by the Ajanta Range and the Satmala hills on the south and by the Arabian Sea on the west.

• The Tapi is the second largest westward draining river of the Peninsula.

Additional Information

• Godavari basin. The Godavari River basin is the longest river in Maharashtra and the second-longest river in India after Ganga.

• The total length of the river is 1,465 km.

• Godavari river rises near Nasik in Maharashtra at an elevation of about 1067 m and flows for a length of about 1465 km before outfalling into the Bay of Bengal.

• The Godavari originates in the Western Ghats of central India near Nashik in Maharashtra, from the Arabian Sea.

Q89. Answer: (c) Prathama Grameen Bank

The correct answer is Prathama Grameen Bank.

Key Points

• The first Regional Rural Bank “Prathama Grameen Bank” was set up on October 2, 1975.

• At present, there are 82 RRBs in India.

• The equity of a regional rural bank is held by the Central Government, the concerned State Government and the Sponsor Bank

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in the proportion of 50:15:35

• The purpose was to include rural areas into the economic mainstream since around 70% of the Indian population was rural. Prathama Bank, with head office in Moradabad, Uttar Pradesh was the first RRB.

Additional Information

• In October 1983, the Grameen Bank Project was transformed into an independent bank by government legislation.

• Today Grameen Bank is owned by the rural poor whom it serves. Borrowers of the Bank own 90% of its shares, while the remaining 10% is owned by the government.

• The journey of Vikas Bank which started as a small dream of like-minded friends to the proud moment of being a prestigious cooperative bank is a curious and inspirational one

• A group of social-minded youths of Sindhanur in Raichur district came together to form Vikas Yuvaka Mandali in 1979.

Q90. Answer: (d) 11

The correct answer is 11.

Key Points

• A match is played by two teams, each with a maximum of eleven players.

• One must be the goalkeeper.

• A match may not start or continue if either team has fewer than seven players.

• Each of the two competing teams can have a maximum of 11 players on the field at any time.

• Playing with more on the field is punishable by a penalty.

Additional Information

• Lacrosse has a number of 12 Players in a team.

• Kho Kho has a number of 09 Players in a team.

Q91. Answer: (c) N Rajam

The correct answer is N Rajam.

Key Points

• N Rajam was conferred Pt Bhimsen Joshi Lifetime Achievement Award for 2021.

• She was conferred on how she created a space of her own in the world of music.

Additional Information

• Bhimsen's memoir was written in Persian and is titled the Tarikh-i Dilkusha.

• Joshi belongs to the Kirana Gharana tradition of Hindustani Classical Music.

• Bharat Ratna Bhimsen Joshi, the doyen of Hindustani classical music, has been chosen for the lifetime achievement award instituted by Gangubai Hangal Music Foundation.

Q92. Answer: (d) 1935

The correct answer is 1935.

Key Points

• The first playback song in Hindi movies was recorded by music directors RC Boral and Pankaj Mullick in 1935.

• 85 years ago, in 1935, the first playback song was recorded, for Nitin Bose's Dhoop Chhaon.

• Before that, actors sang their own songs on the set, and the musicians played on set too, often hidden behind trees and other props.

• But as India became independent, the playback song too was on the brink of making history. And as often happens, fate played a role: Noorjehan went to Pakistan, leaving behind a huge void. That void was filled by Lata Mangeshkar.

Additional Information

• Pankaj Kumar Mullick was an Indian music composer, playback singer, and actor, who was a pioneer of film music in Bengali cinema and Hindi Cinema at the advent of playback singing as well as an early exponent of Rabindra Sangeet.

• Rai Chand Boral was an Indian composer, considered by music connoisseurs to be the Bhishma Pitamah, the father of film music in India.

Q93. Answer: (a) Goa

The correct answer is Goa.

Key Points

• Goa government has launched Dayanand Social Security Scheme 2022 for senior citizens, single women, disabled persons, and HIV / AIDS patients.

• The main objective of the DSSS scheme is to provide financial assistance to the most vulnerable sections of society.

• Chief Minister Pramod Sawant, in his budget speech for the year 2021-22, had assured on the floor of the House that financial assistance to widows would be increased by Rs 500 per month.

• While no separate category exists for widows under this scheme, it is included as a sub-category under the head “Single Women”.

Additional Information

• The scheme was launched in 2022.

• Atmanirbhar Bharat Abhiyan.

• Mission Karmayogi.

• Pradhan Mantri SVANidhi Scheme

• Samarth Scheme.

• Savya Shiksha Abhiyaan.

• Rashtriya Gokul Mission.

• Production Linked Incentive (PLI) Scheme.

• PM FME – Formalization of Micro Food Processing Enterprises Scheme.

Q94. Answer: (c) All India Service

The correct answer is All India Service.

Key Points

• In the Federal form of Government, the power is shared between the central government and the states.

• In a Unitary form of government, the Union government has all the powers and the state governments are subordinate to it.

• Federal Features of Indian Constitution:

• Dual polity

• Written Constitution

• Division of powers (seventh schedule)

• The supremacy of the constitution

• Rigid constitution (basic structure)

• Independent judiciary (headed by SC)

• Bicameralism (Lok Sabha and Rajya sabha)

Q95. Answer: (b) Ernst Haeckel

The correct answer is Ernst Haeckel.

Key Points

• In 1869, Ernst Haeckel named a new term 'Oecologie' that defined the study of the relationship of organisms with their environment.

• Ecology was originally defined in the mid-19th century when biology was a vastly different discipline than it is today.

• The original definition is from Ernst Haeckel, who defined ecology as the study of the relationship of organisms with their environment.

• The term ecology is believed to have been coined by Ernst Haeckel in 1869 though its first authentic use was made by Reiter in 1885.

• It is used to describe the “economies” of living forms.

Additional Information

• One of the first ecologists whose writings survive may have been Aristotle or perhaps his student, Theophrastus, both of whom had an interest in many species of animals and plants.

• Theophrastus described interrelationships between animals and their environment as early as the 4th century BC.

• 'Ramdeo Misra' is known as the father of Ecology in India.

Q96. Answer: (c) 1928

The correct answer is 1928.

Key Points

• The Board of Control for Cricket in India (BCCI) was set up on December 4, 1928, by a group of players at Delhi's Roshnara Club to end the British monopoly in cricket.

• The Board of Control for Cricket in India is the governing body for cricket in India.

• Its headquarters are situated at Wankhede Stadium in Mumbai.

Additional Information

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• The role of the BCCI is to regulate and overlook the growth and development of everything related to Indian Cricket.

• The cricket board has set rules and regulations in its constitution that behave as guidelines for the National team.

• BCCI has a lion's share of around 80% of the annual revenue of ICC.

Q97. Answer: (b) Bharatanatyam

The correct answer is Bharatanatyam.

Key Points

• Shobana Chandrakumar Pillai is an Indian actress and Bharatanatyam dancer. Shobana danced Abhinaya, a pivotal element in Bharata Natyam.

• Bharatanatyam is a major form of Indian classical dance that originated in Tamil Nadu. Savitha Sastry is an Indian dancer and choreographer best known as an exponent of Bharatanatyam.

• Bharatanatyam traces its origins back to the Natyashastra, an ancient treatise on theatre written by the mythic priest Bharata.

Additional Information

• Elam Endira Devi, is an Indian classical dancer and teacher, known for her expertise and scholarship in the classical dance form of Manipuri. The Manipuri Dance originating from the state of Manipur.

• The world famous Kathak dancer, Pandit Birju Maharaj is the face of the Kalka-Bindadin gharana of Lucknow. Kathak is the classical dance form of Uttar Pradesh.

• Sonal Mansingh, dancer of odissi, a classical Indian dance for that originated in Orissa, and other Indian classical forms. Odissi is a major ancient Indian classical dance.

Q98. Answer: (a) Uranium

The correct answer is Uranium.

Key Points

• Nuclear energy is the energy in the nucleus, or core, of an atom.

• All nuclear power plants use nuclear fission and most nuclear power plants use uranium atoms.

• Uranium occurs naturally in low concentration in soil rock and water, and is commercially extracted from uranium-bearing minerals such as uraninite.

Additional Information

• Micas are fairly light and relatively soft, and the sheets and flakes of mica are flexible.

• Manganese is a very hard, brittl, gray-white transition metal that is naturally found in a variety of minerals, but never on its own.

• Coal is also a key ingredient in the manufacturing of steel and cement.

Q99. Answer: (a) Oak, Junipers, Maple

The correct answer is Oak, Junipers, or Maple.

Key Points

• Montane Temperate Forest, These types of forests are mainly generated in the Northern middle Himalayas ranges (1801 to 3001 Meters) and Southern Nilgiri higher Mountain ranges.

• Some significant trees of a montane temperate forest are rhododendrons, ferns, oak, maple, juniper, deodar, chilgoza, etc.

• These types of forests are found in the state of Assam, Nagaland, Mizoram, Meghalaya, Manipur, Arunachal Pradesh, etc.

Additional Information

• There are mainly two types of tropical forests that are found in the Himalayas - the tropical rainforests, and the tropical deciduous forests.

• The tropical rainforests are dense, evergreen, gloomy, and, similar to the forests of the Amazon basin and other equatorial areas.

• Oak, laurel, and, chestnut trees are also found up to 7,000 feet above sea level.

• Pine trees are found up to 12,000 feet above sea level; above that point only lichens, grass, and moss can be found since it is so cold in the higher regions.

Q100. Answer: (b) Annelida

The correct answer is Annelida.

Key Points

• Besides being segmented, the body wall of Annelida is characterized by being made up of both circular and longitudinal muscle fibres surrounded by a moist, acellular cuticle that is secreted by an epidermal epithelium.

• The body cavity of annelids is lined by epithelium.

• Successive body segments are separated by walls that correspond to the external rings.

• In grooves between the segments of some oligochaetes are dorsal pores through which coelomic fluid may be discharged.

Additional Information

• The phylum Arthropoda contains a wide diversity of animals with hard exoskeletons and jointed appendages.

• The flatworms, flatworms, Platyhelminthes, or platyhelminths are a phylum of relatively simple bilaterian, unsegmented, soft-bodied invertebrates.

• Coelenterata is a term encompassing the animal phyla Cnidaria (coral animals, true jellies, sea anemones, sea pens, and their relatives) and Ctenophora (comb jellies).

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