SSC CHSL Previous Paper 46 (Held On: 23 March 2018 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Rearrange the parts of the sentence in correct order.

What makes this "victory"

P-even more surprising was

Q-the complete asymmetry of

R-the two sides involved

(a) QRP
(b) RPQ
(c) PRQ
(d) PQR

Q2. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

He has seen (A)/ some bad days (B) / but now he is well off. (C)/ No error(D)

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

Q3. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

Involving many carefully arranged parts or details; detailed and complicated in design and planning.

(a) labyrinthine
(b) facile
(c) elaborate
(d) prodigious

Q4. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

Respect and admiration.

(a) peccant
(b) culpable
(c) vicious
(d) esteem

Q5. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

A _____education needs to include reading, writing, math, and a variety of other subjects.

(a) organic
(b) fundamental
(c) primitive

(d) radical

Q6. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Each day, the price of gold will _____ on the market.

(a) fluctuate
(b) wave
(c) flutter
(d) vibrate

Q7. In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active voice.

Anita will arrange the dresses.

(a) The dresses would be arranged by Anita.
(b) The dresses would have been arranged by Anita.
(c) The dresses would have had been arranged by Anita.
(d) The dresses will be arranged by Anita.

Q8. Improve the bracketed part of the sentence.

My daughter (is loving) Glucose biscuits.

(a) has been loving
(b) loves to
(c) loves
(d) no improvement

Directions

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

(1)_____democracies, citizens have command (2)_____who they want to be represented by as well as the competence to define issues worthy of representation. Outside the domain of often (3)____party politics lies an entire terrain of collective action (4)____which citizens press their collective will upon those (5)_____rule.

Q9. Select the most appropriate option to fill in blank number 1.

(a) In
(b) Into
(c) Inside
(d) Inner

Q10. Select the most appropriate option to fill in blank number 2.

(a) on
(b) about
(c) over
(d) with

Q11. Select the most appropriate option to fill in blank number 3.

(a) smelly
(b) obnoxious
(c) odourful
(d) rancid

Q12. Select the most appropriate option to fill in blank number 4.

(a) through
(b) to
(c) into
(d) for

Q13. Select the most appropriate option to fill in blank number 5.

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

Q14. Select the word with the correct spelling.

(a) Asyrian
(b) Apustate
(c) Marzipan
(d) Cucamber

Q15. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Hocus pocus

(a) walking in a zig-zag manner, especially under the influence of alcohol
(b) meaningless talk or activity, typically designed to trick someone
(c) rich people but who are shallow and greedy
(d) doing a job haphazardly

Q16. Improve the bracketed part of the sentence.

Your character depends on (your upbringing).

(a) how you were brought.
(b) your up bringing
(c) your way of upbringing.
(d) no improvement

Q17. Select the word with the correct spelling.

(a) Iminent
(b) Mouerning
(c) Laticed
(d) Neoplasm

Q18. Rearrange the parts of the sentence in correct order.

The current Indian

P-establishment’s priorities

Q-independence of writers

R-do not include the

(a) RPQ
(b) QRP
(c) PRQ
(d) QPR

Q19. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

to hit the sack

(a) to prepare for sleep
(b) to die
(c) to take one's anger out
(d) to hit where it hurts the most

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Q20. Select the synonym of

Blabber

(a) wary
(b) nonsense
(c) sophic
(d) sapient

Q21. Select the synonym of

to admonish

(a) to reprimand
(b) to rave
(c) to panegyrize
(d) to eulogise

Q22. Select the antonym of

divulgence

(a) testimony
(b) repudiation
(c) assent
(d) revelation

Q23. Select the antonym of

stratagem

(a) frankness
(b) ruse
(c) gimmick
(d) ploy

Q24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

I don't think I shall(A)/ get through all(B)/ this work this afternoon.(C)/ No error(D)

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

Q25. In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one, which best express the same sentence in Indirect/Direct speech.

The tutor said, “The sun rises in the East”.

(a) The tutor says the sun rises in the East.
(b) The tutor said that the sun rose in the East.
(c) The tutor said that the sun has been rising in the East.
(d) The tutor said that the sun rises in the East.

GENERAL INTELLIGENCE

Q26. In the following question, select the related word pair from the given alternatives.

Turtle : Reptile : : ? : ?

(a) Snake : Amphibian
(b) Frog : Bird
(c) Crow : Fly
(d) Elephant : Mammal

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Q27. In the following question, select the related number pair from the given alternatives.

16 : 48 : : ? : ?

(a) 25 : 75
(b) 11 : 32
(c) 25 : 64
(d) 49 : 72

Q28. In the following question, select the related letter/letters from the given alternatives.

APR : BQS : : ETV : ?

(a) FVX
(b) FUW
(c) GUX
(d) GVW

Q29. In the following question, select the odd word pair from the given alternatives.

(a) Pen - Ink
(b) Pen - Writer
(c) Book - Pages
(d) Word - Letter

Q30. In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) 7 - 14
(b) 11 - 22
(c) 5 - 10
(d) 3 - 8

Q31. In the following question, select the odd letter/letters from the given alternatives.

(a) KRY
(b) DKR
(c) FMT
(d) LVZ

Q32. From the given alternatives, according to dictionary, which word will come at SECOND position?

1. Conservative 2. Cooker 3. Conflict 4. Congratulate 5. Cool

(a) Conservative
(b) Congratulate
(c) Cooker
(d) Conflict

Q33. In the following question, select the missing number from the given series.

14, 19, 26, 37, 50, 67, ?

(a) 83
(b) 77
(c) 86
(d) 93

Q34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

K, O, S, W, ?

(a) A
(b) Z
(c) Y

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(d) D

Q35. From a hospital J, Pritam walked 49 metres to the south, then after turning to right he walked 49 metres. He again turned right and walked another 34 metres and finally turned to right and walked 49 metres. At what distance (in metres) and in which direction is he from the hospital J now?

(a) 15, North
(b) 22√3, North
(c) 15, South
(d) 22√3, South

Q36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

GRAMOPHONE

(a) Game
(b) Norm
(c) Ram
(d) Move

Q37. In a certain code language, “Sun is hot” is written as “fi lat muk”, “milk is sour” is written as “muk ti mu” and “milk makes sour” is written as “ti mu fa”. What is the code for “is” in that code language?

(a) ti
(b) fa
(c) muk
(d) mu

Q38. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

PCO, QDP, REQ, ?, TGS

(a) TGS
(b) SGR
(c) SFR
(d) TFS

Q39. In the following question, select the missing number from the given series.

133, 136, 139, 142, ?, 148

(a) 146
(b) 145
(c) 144
(d) 147

Q40. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (57, 61, 65)
(b) (92, 96, 100)
(c) (63, 67, 71)
(d) (64, 68, 70)

Q41. In a certain code language, '-' represents '+', '+' represents 'x', 'x' represents '÷' and '÷' represents '-'. Find out the answer to the following question.

20 + 6 x 5 ÷ 20 - 14 = ?

(a) 45
(b) 26
(c) 18
(d) 12

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Q42. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

19 - 16 + 5 ÷ 10 x 2 = 28

(a) x and -
(b) ÷ and -
(c) ÷ and x
(d) • and +

Q43. If 1&7 = 80, 4&5 = 90 and 6&8 = 140, then find the value of 5&5 = ?

(a) 40
(b) 100
(c) 20
(d) 90

Q44. Which of the following terms follows the trend of the given list?

XyXYXYXY, XYxYXYXY, XYXyXYXY, XYXYxYXY, XYXYXyXY, _____.

(a) xYXYXYXY
(b) XYXYXYxY
(c) XyXYXYXY
(d) XYxYXYXY

Q45. Two cruisers start from the same port. Cruiser A sails 50 miles South, then it turns right and sails 60 miles. In the meanwhile, cruiser B sails 105 miles West, then it turns left and sails 50 miles, then it turns West and sails 45 miles. Where is cruiser A with respect to cruiser B?

(a) 210 miles East
(b) 90 miles East
(c) 90 miles West
(d) 210 miles West

Q46. In the question, two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All doors are windows.

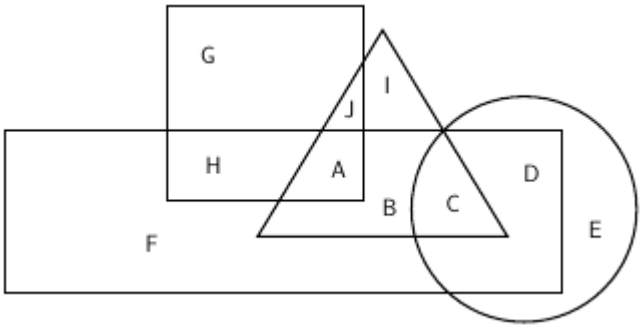
Statement II: No openings are windows.

Conclusion I: All windows are openings.

Conclusion II: No openings are doors.

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

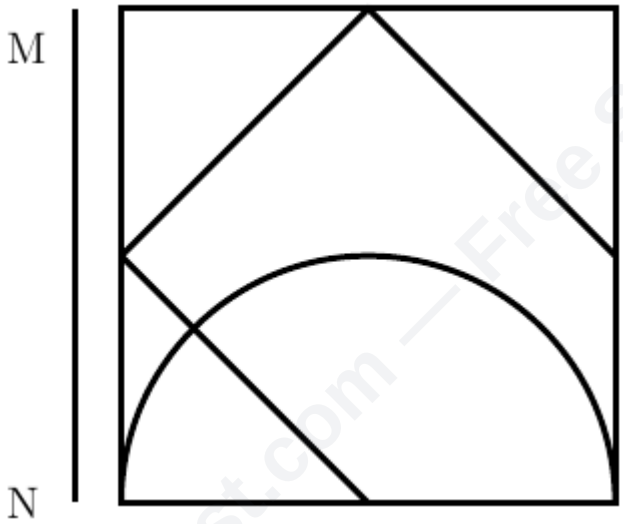
Q47. In the following figure, rectangle represents Reporters circle represents Dancers, triangle represents Playwrights and square represents Boxers. Which set of letters represents Boxers who are Playwrights?



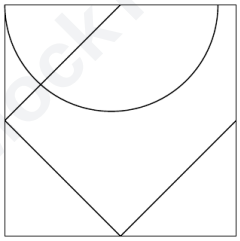
(a) GH
(b) JA
(c) IB

(d) BC

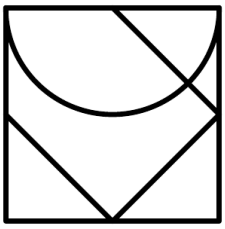
Q48. If a mirror is placed on the line MN, them which of the answer figures is the right image of the given figure?



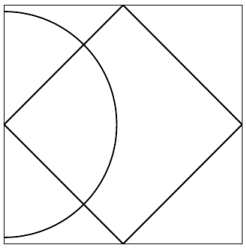
(a)



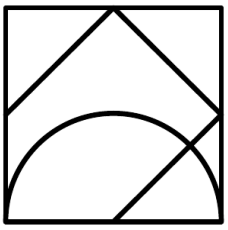
(b)



(c)

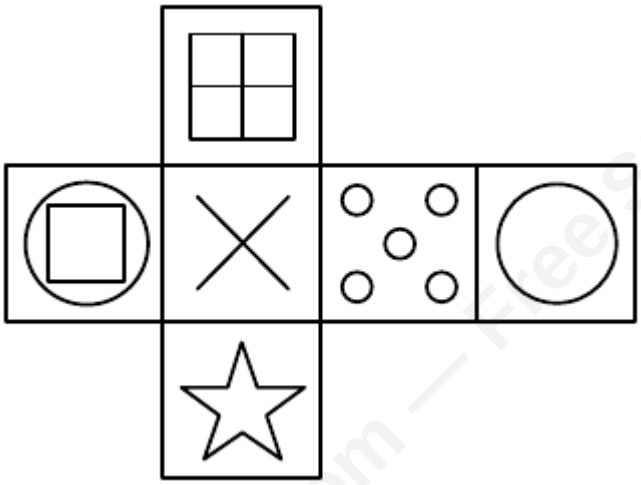


(d)

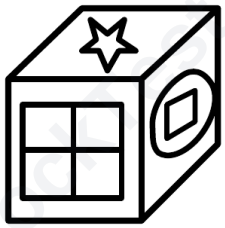


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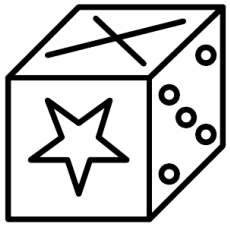
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



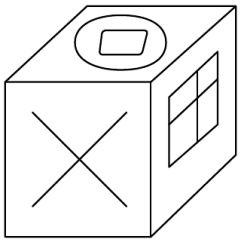
(a)



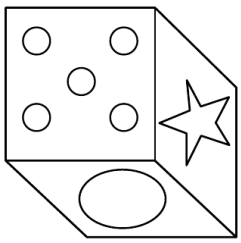
(b)



(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example ‘D’ can be represented by 30, 42 etc and ‘T’ can be represented by 67, 78 etc. Similarly, you have to identify the set for the word ‘HIND’.

Matrix-I		Matrix-II									

	0	1	2	3	4		5	6	7	8	9
0	G	L	H	D	I	5	Y	W	U	X	U
1	D	D	A	F	J	6	Q	S	T	N	Q
2	F	F	D	K	F	7	N	T	P	T	Q
3	D	B	A	J	I	8	Z	V	Y	X	Y
4	F	E	D	F	H	9	Q	Z	P	W	X

(a) 44,34,68,10
(b) 11,89,13,77
(c) 20,88,11,86
(d) 42,67,12,89

QUANTITATIVE APTITUDE

Q51. The difference between 66% of a number and 44% of the same number is 275. What is the 64% of that number?

(a) 800
(b) 840
(c) 760
(d) 600

Q52. Calculate the value of (5^(1/4)- 1)(5^(3/4)+ 5^(1/2) + 5^(1/4) + 1)

(a) 5
(b) 4
(c) 10
(d) 25

Q53. If √((2 + 7x)) = √((3x + 4)) then find the value of x.

(a) 0.5
(b) 1
(c) 1.5
(d) 2

Q54. The product of two even consecutive numbers is 168. Find the sum of numbers.

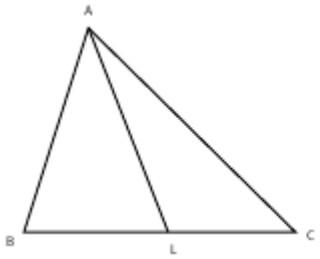
(a) 20
(b) 22
(c) 24
(d) 26

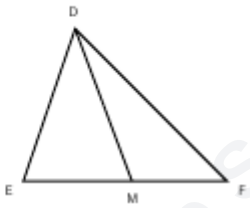
Q55. A line DE parallel to the side BC intersects the other two sides of triangle at point D and E such that AD = 1/6 AB and AE = 1/6 AC. If the value of BC is 18 cm then calculate the value of DE (in cm).

(a) 2
(b) 3
(c) 6
(d) 8

Q56. Consider the two equiangular triangles ABC and DEF having medians as AL and DM respectively as shown in figure below.

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(a) BC/EF = DM/AL
(b) BC/EF = AL/DM
(c) EF/BC = AL/DM
(d) All options are correct

Q57. The value of a car depreciates at the rate of 15% per annum. If its present value is Rs. 433500, then what was the value (in Rs) of the car before 2 years?

(a) 594200
(b) 620000
(c) 563550
(d) 600000

Q58. If A : B : C = 2 : 3 : 5 and C : D = 2 : 5, then what is A : D?

(a) 4 : 25
(b) 8 : 21
(c) 6 : 25
(d) 12 : 35

Q59. In a mixture of 35 litres, the ratio of water and acid is 6 : 1. If 5 litres of acid is added to the mixture, then what will be the ratio of water and acid in the new mixture?

(a) 5 : 2
(b) 4 : 1
(c) 3 : 1
(d) 6 : 5

Q60. The average savings of Champak in 5 days is Rs. 160. If his savings for the first 4 days is Rs. 155, Rs. 170, Rs. 134 and Rs. 168 respectively, then what is his saving (in Rs) of the 5th day?

(a) 161
(b) 163
(c) 169
(d) 173

Q61. A sum of Rs. 6000 is borrowed at compound interest at the rate of 8% per annum. What will be the amount (in Rs) after 2 years?

(a) 6998.4
(b) 6960
(c) 6784.4
(d) 6869.4

Q62. Cost price of an article is Rs. 122. If profit percentage is 56%, then what is the selling price (in Rs) of the article?

(a) 277.27
(b) 217.85
(c) 175.68
(d) 190.32

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Q63. On selling a watch at 4/5th of the marked price, there is a loss of 4%. What will be the ratio between the marked price and cost price of the watch?

(a) 6 : 5
(b) 5 : 3
(c) 10 : 7
(d) 7 : 5

Q64. What is the positive square root of [19 + 4√21]?

(a) √7 + 2√3
(b) √3 + 2√7
(c) √2 + 3√7
(d) √7 + 3√3

Q65. 18 men or 25 boys can complete a work in 25 days. How many days will 36 men and 10 boys will take to complete the work?

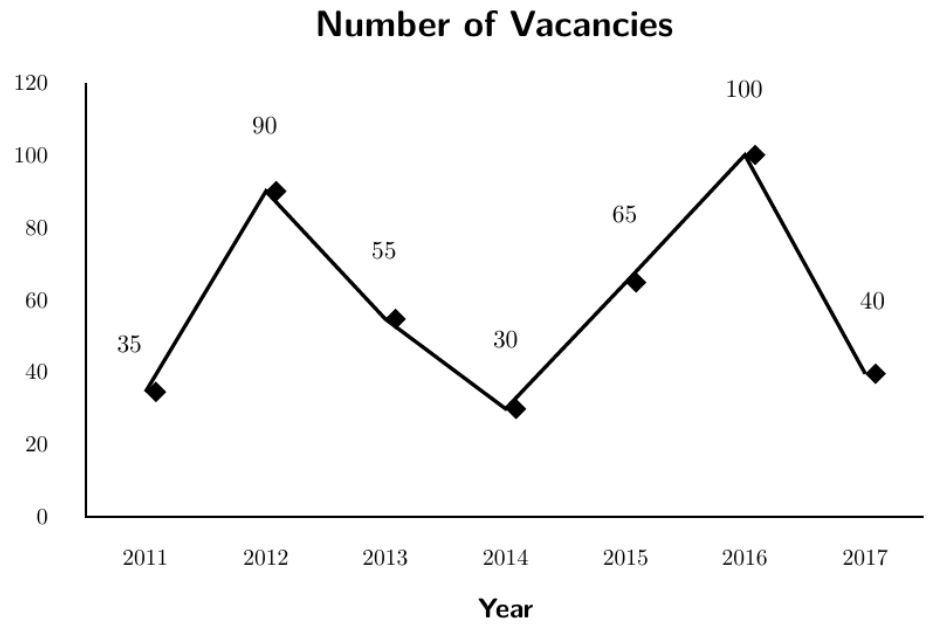
(a) 112/17
(b) 125/12
(c) 115/12
(d) 125/17

Q66. Vipin crosses a 450 metres wide road in 9 seconds. What is his speed (in km/hr)?

(a) 195
(b) 150
(c) 210
(d) 180

Directions

Directions: The line graph shows the number of vacancies for executives in a certain company. Study the diagram and answer the following questions.



Q67. In which year were the number of vacancies lesser than that of the previous year?

(a) 2015
(b) 2014
(c) 2016
(d) 2012

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Q68. What was the difference in the number of vacancies between the years 2016 and 2014?

(a) 60
(b) 50
(c) 70
(d) 40

Q69. The number of vacancies in 2014 were lesser than that in 2016 by _____.

(a) 1.167
(b) 0.7
(c) 0.6
(d) 2.333

Q70. The salary of an executive in the company is Rs 30,000, then what was the increase in the expense (in Rs lakhs) due to salaries that had to be paid when posts were filled for the vacancies in the year 2017?

(a) 3
(b) 6
(c) 9
(d) 12

Q71. If the lengths of the two parallel sides of a trapezium are 8 cm and 10 cm and the distance between these parallel sides is 6 cm. Find its area (in cm2).

(a) 27
(b) 108
(c) 54
(d) 81

Q72. If the diameter of a circle is 7 cm, then what will be its circumference (in cm)?

(a) 44
(b) 22
(c) 26
(d) 52

Q73. Find the volume (in cm^3) of a cube of side 6.5 cm.

(a) 56.515
(b) 274.625
(c) 35.605
(d) 14.925

Q74. ΔDEF is right angled at E. If mangle D = 30°, then find the value of (cosF + √3).

(a) 7/2√3
(b) (1 + 2√3)/2
(c) 4/√3
(d) (√3 + 4)/2

Q75. ΔDEF is right angled at E. If sinD = 15/17, then what is the value of cotF ?

(a) 15/17
(b) 8/17
(c) 15/8
(d) 17/15

GENERAL AWARENESS

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Q76. Which movie has won the most number of Oscars?

(a) Titanic
(b) Cabaret
(c) Jungle Book
(d) Avatar

Q77. Chittorgarh Fort is located in _____.

(a) Rajasthan
(b) Bihar
(c) Uttar Pradesh
(d) Gujarat

Q78. Which organ is the main digester and absorber of food?

(a) Stomach
(b) Liver
(c) Colon
(d) Small intestine

Q79. The bark of willow tree is a source of which medicine?

(a) Paracetamol
(b) Aspirin
(c) Antacid
(d) Antiseptic

Q80. Capra Hircus is the scientific name of _____.

(a) Sheep
(b) Cow
(c) Horse
(d) Goat

Q81. What does a positive catalyst do in a reaction?

(a) A catalyst is nothing but the final product of a reaction
(b) Does not alter the rate of reaction
(c) Speeds up chemical reaction
(d) Slows down chemical reaction

Q82. Atomic number of which of the following elements is greater than that of Bromine

(a) Silver
(b) Copper
(c) Iron
(d) Chromium

Q83. Commonly used abbreviation GUI in computer science stands for?

(a) Group User Interface
(b) Graphical User Interface
(c) Graphic User Integration
(d) Group User Integration

Q84. Tamil is the official language of _____.

(a) Puducherry
(b) Dadra and Nagar Haveli
(c) Daman and Diu
(d) Delhi

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Q85. A tyre tube manufacturer faces a -1.6 price elasticity of demand for its tubes. It is presently selling 24000 units/month. If it wants to increase quantity sold by 4%, it must lower its price by _____.

(a) 2.5 percent
(b) 5.6 percent
(c) 2.4 percent
(d) 6.4 percent

Q86. Consider the market for new two-wheelers. If the price of steel increases, then the equilibrium price of new two wheelers will _____ and the equilibrium quantity will _____.

(a) increase; increase
(b) decrease; decrease
(c) increase; decrease
(d) decrease; increase

Q87. Which type of pathogen causes the water-borne disease Ascariasis?

(a) Viral
(b) Protozoan
(c) Bacterial
(d) Parasitic

Q88. Which type of pathogen causes the water-borne disease dysentery?

(a) Algal
(b) Parasitic
(c) Fungal
(d) Bacterial

Q89. What is the major electricity generation power source in India?

(a) Coal
(b) Gas
(c) Nuclear
(d) Hydro

Q90. A person, who draws or makes maps or charts, is called _____.

(a) Hydrographer
(b) Cartographer
(c) Seismographer
(d) Lexicographer

Q91. Brihadeshwara Temple of Thanjavur was built by _____.

(a) Raja Raja Chola I
(b) Rajendra Chola I
(c) Rajaraja II
(d) Rajendra III

Q92. Salt March also known as Dandi March was initiated by _____.

(a) Raja Ram Mohan Roy
(b) Mahatma Gandhi
(c) Avantikabai Gokhale
(d) Kasturba Gandhi

Q93. Chauri-Chaura incident took place in?

(a) 1902
(b) 1912
(c) 1922
(d) 1932

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Q94. Who invented telephone?

(a) Alexander Graham Bell
(b) Thomas Edison
(c) Benjamin Franklin
(d) James Watt

Q95. Which instrument measures AF(Audio Frequency) signal level and noise?

(a) Vectorscope
(b) VU meter
(c) Q meter
(d) Psophometer

Q96. If a physical quantity has the units - ampere meters per second squared, then what are it's dimensions?

(a) [I LT^(-2)]
(b) [ALT^(-2)]
(c) [I MS^(-2)]
(d) [AMS^(-2)]

Q97. The 42nd Amendment of the Constitution of India was enacted in the year _____.

(a) 1947
(b) 1976
(c) 1991
(d) 2016

Q98. The number of parliamentary seats (Rajya Sabha) of Chhattisgarh is _____.

(a) 3
(b) 5
(c) 11
(d) 16

Q99. Which country's 7 swimmers were banned from the Rio Olympics?

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

Q100. Who is the author of "The Great Indian Novel"?

(a) Jawaharlal Nehru
(b) Shashi Tharoor
(c) Mahatma Gandhi
(d) Arun Shourie

ANSWER KEY

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

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81	c	82	a	83	b	84	a	85	a	86	c	87	d	88	d	89	a	90	b
91	a	92	b	93	c	94	a	95	d	96	b	97	b	98	b	99	a	100	b

SOLUTIONS

Q1. Answer: (d) PQR

Correct option - 4

Clearly, a sentence does not end with a preposition or transitive verb(verb that requires object). Hence, option 4 is the correct answer.

Q2. Answer: (a) A

Correct option - 1

Since, conjunction but is followed by "now", it means the main clause describes action related to past. Hence, replace has with had. Thus, option 1 is the correct answer.

Q3. Answer: (c) elaborate

The correct answer is "elaborate"

Key Points

• Let's find out the meaning of the following words:-

• labyrinthine - a network like a labyrinth; irregular and twisting. or a complicated irregular network of passages or paths in which it is difficult to find one's way; a maze.

• facile - moving, acting, working, etc. with ease, sometimes with superficiality.

• elaborate - involving many carefully arranged parts or details; detailed and complicated in design and planning.

• prodigious - remarkably or impressively great in extent, size, or degree.

Clearly, option 3 is the appropriate substitute word.

Q4. Answer: (d) esteem

Correct option - 4

Let's find out the meaning of the following words:-

peccant - having committed a fault or sin.

culpable - deserving blame.

vicious - deliberately cruel or violent.

esteem - respect and admiration.

Hence, option 4 gives the appropriate substitute.

Q5. Answer: (b) fundamental

The solution is in Hindi. Read it online.

Q6. Answer: (a) fluctuate

Correct option - 1

Let's find out the meaning of the following words:-

fluctuate -rise and fall irregularly in number or amount.

wave -move to and fro with a swaying motion while remaining fixed to one point.

flutter - a bird or other winged creature fly unsteadily or hover by flapping the wings quickly and lightly.

vibrate - move continuously and rapidly to and fro; quiver with a quality or emotion.

Here, the context explains that the price of gold will rise and fall irregularly. Hence, option 1 is the correct answer.

Q7. Answer: (d) The dresses will be arranged by Anita.

Correct option - 4

Here, active voice is given, so we need to change it into passive voice. Since, simple future tense is used. Thus, following pattern will be used :-

Obj + will/shall + be + V3 + by + Sub.

Hence, option 4 is the correct answer.

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Q8. Answer: (c) loves

Correct option - 3

Here, an interest or liking is shown in the sentence. When such liking, habit, etc. is described, then simple past tense is used. So, option 3 is the correct answer.

Q9. Answer: (a) In

The correct answer is: In

Key Points

• Let's look at the uses of the given words.

• In is used to show a position inside a particular area or object.

• Example - Unfortunately, this is a major ' grey area ' in democracy.

• Into is used toward or in the direction of something.

• Example - The nations entered into an alliance.

• Inside means the inner part or surface of something.

• Example - The door was locked from the inside.

• Inner means towards or close to the center of a place.

• Example - Leading off the main hall is a series of small inner rooms.

• Democracy is a system in which the government of a country is elected by the people.

• So, as per the meaning of the given words, "in" should be used in the given sentence.

Therefore, the correct answer is option 1.

Complete passage: (1) In democracies, citizens have command (2)_____who they want to be represented by as well as the competence to define issues worthy of representation. Outside the domain of often (3)____party politics lies an entire terrain of collective action (4)____which citizens press their collective will upon those (5)_____rule.

Q10. Answer: (c) over

The correct answer is: over

Key Points

• Let's look at the uses of the given prepositions.

• On is used to indicate touching and being supported by the top surface of something or moving to a position that is supported by something.

• Example - The book is lying on the table.

• About is used for stating who or what you are discussing, considering, describing, forgetting, etc.

• Example - I'm very worried about my brother.

• Over is used as a function word to indicate the possession of authority, power, or jurisdiction in regard to something or persons.

• Example - Colonel Sailing has command over the Guards Regiment.

• With means in the same place as someone or something or 'accompanying'.

• Example - I don’t like tea with milk.

• The term "command over" means control over someone or something and responsibility for him, her, or it.

• The implied meaning of the sentence is: Citizens have control over who they wish to represent them and the authority to determine what matters need representation.

• So, as per the meaning of the given words, "over" should be used in the given sentence.

Therefore, the correct answer is option 3.

Complete passage: (1) In democracies, citizens have command (2) over who they want to be represented by as well as the competence to define issues worthy of representation. Outside the domain of often (3)_____party politics lies an entire terrain of collective action (4)____which citizens press their collective will upon those (5)_____rule.

Q11. Answer: (b) obnoxious

The solution is in Hindi. Read it online.

Q12. Answer: (a) through

The correct answer is: through

Key Points

• Let's look at the uses of the given words.

• Through is used as a function word to indicate movement into at one side or point and out at another and especially the opposite side.

• To is used for approaching or reaching a particular condition.

• Into is used toward or in the direction of something.

• For is used to talk about a purpose or a reason for something.

• Here, an approach is shown since, outside politics, there is a collective action taken by the citizens to decide whom they are going to let rule.

• So, as per the use of the given words, "through" should be used in the given sentence.

Therefore, the correct answer is option 1.

Complete passage: (1) In democracies, citizens have command (2) over who they want to be represented by as well as the competence to define issues worthy of representation. Outside the domain of often (3) obnoxious party politics lies an entire terrain of collective action (4) through which citizens press their collective will upon those (5)_____rule.

Q13. Answer: (d) who

The correct answer is: who

Key Points

• Let's look at the uses of the given Wh-words.

• Whom is used as the object of a verb or preposition. It is an objective pronoun.

• Which is used to refer to a choice between two or more possible answers or alternatives.

• Whosoever means any person, no matter who.

• Who is used for saying exactly which person or what kind of person you are talking about. It is a subjective pronoun.

• Subjective pronouns tell us who or what the sentence is about.

• Objective pronouns receive the action in the sentence.

• Here, the representatives are people, and it is a subject pronoun, which means it performs the action.

• So, as per the use of the given words, "who" should be used in the given sentence.

Therefore, the correct answer is option 4.

Complete passage: (1) In democracies, citizens have command (2) over who they want to be represented by as well as the competence to define issues worthy of representation. Outside the domain of often (3) obnoxious party politics lies an entire terrain of collective action (4) through which citizens press their collective will upon those (5) who rule.

Q14. Answer: (c) Marzipan

The correct answer is marzipan

Key Points

• Here, the word "marzipan" is correctly spelled.

• Marzipan: a sweet yellow or white paste of ground almonds, sugar, and egg whites, used to coat cakes or to make confectionery.

• The correct spelling of other words is as follows:-

• Assyrian: an inhabitant of ancient Assyria.

• Apostate: a person who renounces a religious or political belief or principle

• Cucumber: a long, green-skinned fruit with watery flesh, usually eaten raw in salads or pickled.

Q15. Answer: (b) meaningless talk or activity, typically designed to trick someone

The solution is in Hindi. Read it online.

Q16. Answer: (d) no improvement

The correct answer is 'no improvement'.

Key Points

• The given sentence is error-free.

• The subject-verb agreement is correct in the given sentence as per grammar and context.

• The subject of the given sentence is 'your character' which is a singular subject.

• The singular subject requires a singular verb i.e. 'depends'.

• The preposition 'on' is used used to show that somebody belongs to a group or an organization.

• "to be on the committee/staff/jury/panel".

• **The bracketed part is also correct as it contains the correct form of the noun 'upbringing'.

Hence, the correct option is Option 4.

Q17. Answer: (d) Neoplasm

The solution is in Hindi. Read it online.

Q18. Answer: (c) PRQ

Correct option - 3

Firstly, a sentence does not end with an article. So, option 4 is eliminated. The starter ends with "Indian" that is a third person singular noun. Hence, verb "do" does not come with it. So, option 1 is eliminated. And, both 'Indian' and 'independence' are singular noun, they should be connected by something. Thus, option 2 is incorrect.

Hence, option 3 is the correct answer.

Q19. Answer: (a) to prepare for sleep

The correct answer is 'to prepare for sleep'

Key Points

• The meaning of the given phrase 'to hit the sack' is 'go to bed.'

• Let's see an example of the given phrase-

• I've got a busy day tomorrow, so I think I'll hit the sack.

Q20. Answer: (b) nonsense

Correct option - 2

Let's find out the meaning of following word 'blabber' :- talk foolishly, indiscreetly, or excessively.

Now, find the meaning of -

sophic - relating to, or full of wisdom; intellectual; sapient.

Hence, option 2 i.e. nonsense is the most appropriate synonym for the given word.

Q21. Answer: (a) to reprimand

Correct option - 1

Let's find out the meaning of following word 'to admonish' :-reprimand firmly.

Now, find the meaning of following words :-

reprimand - a formal expression of disapproval.

rave - address someone in an angry, uncontrolled way.

panegyrize - speak or write in praise of; eulogize.

Hence, option 1 i.e. to reprimand is the most appropriate synonym for the given word.

Q22. Answer: (b) repudiation

Correct option - 2

Let's find out the meaning of following word 'divulgence' :- to make known something, such as a confidence or secret; The action of revealing/disclosing private or sensitive information; revelation.

Now, find the meaning of -

testimony - evidence or proof of something.

repudiation - denial of the truth or validity of something; rejection; refusal to fulfil or discharge an agreement, obligation, or debt.

assent - the expression of approval or agreement.

Hence, option 2 i.e. repudiation is the most appropriate antonym for the given word.

Q23. Answer: (a) frankness

Correct option - 1

Let's find out the meaning of following word "stratagem" :- a plan or scheme, especially one used to outwit an opponent or achieve an end; cunning.

Now, find the meaning of following words :-

frankness - the quality of being open, honest, and direct in speech or writing.

gimmick - a trick or device intended to attract attention, publicity, or trade; ruse; ploy.

Hence, option 1 i.e. 'franknss' is the most appropriate antonym for the given word.

Q24. Answer: (d) 4

Correct option - 4

Key Points

• The above sentence is free from errors.

• I don't think I shall get through all this work this afternoon.

• Here "I shall get through" is in Future tense because here I am thinking now that by today afternoon I will not be able to complete this work that is in future.

• So, the above sentence is correct.

Additional Information

• Get through means to pass a difficult or testing experience or period.

• For Example - He just did what was needed to get through.

Q25. Answer: (d) The tutor said that the sun rises in the East.

Correct option - 4

Here, direct speech is given, so we change it into indirect speech. The reporting verb "said" remains same. So, option 1 is incorrect. Now, a universal truth is mentioned in the sentence, it means it remains same in past. present and future time. So, the tense used is always simple present tense. Hence, option 4 is the correct answer.

Q26. Answer: (d) Elephant : Mammal

The pattern followed here is:-

Turtles belong to the reptile category

1) Snakes belong to the reptile category

2) Frog belong to the amphibian category

3) Crow belong to family of birds

Similarly,

4) Elephants belong to the reptile category

Hence, the correct answer is "Elephant : Mammal".

Q27. Answer: (a) 25 : 75

The Logic followed here is:-

(First number × 3) = Second number

In 16 : 48

16 × 3 = 48

Similarly,

In 25 : 75

25 × 3 = 75

Hence, the correct answer is "25 : 75 ".

Q28. Answer: (b) FUW

The pattern followed here is:-

APR is related to BQS as

Similarly,

ETV is related to FUW as

Hence, the correct answer is "FUW".

Q29. Answer: (b) Pen - Writer

The pattern followed here is:-

1) Pen - Ink → Pen consists of ink

2) Pen - Writer → Writer using a pen.

3) Book - Pages → Book consists of pages

4) Word - Letter → Word consists of letter

As can be seen clearly from the above that the group i.e. Pen - Writer is the odd one out as it doesn't follow the same pattern.

Hence, the correct answer is "Pen - Writer".

Q30. Answer: (d) 3 - 8

The Logic followed here is:-

(First number × 2) = Second number

1) In 7 - 14

(7 × 2) = 14
2) In 11 - 22
(11 × 2) = 22
3) In 5 - 10
(5 × 2) = 10
4) In 3 - 8
(3 × 2) = 6 not 8
As we can see clearly, 3 - 8 is an odd pair as it does not follows the logic.
Hence, the correct answer is "3 - 8".

Q31. Answer: (d) LVZ

The pattern followed here is:-
As can be seen that LVZ doesn't follow the same pattern as the other three.
Hence, the correct answer is "LVZ".

Q32. Answer: (b) Congratulate

The correct order of the given words as they would appear in an English dictionary is as follows:-
3. Conflict
4. Congratulate
1. Conservative
2. Cooker
5. Cool
As can be seen the word that comes at second position is Congratulate.
Hence, the correct answer is "Congratulate".

Q33. Answer: (c) 86

The pattern followed here is:-
Hence, the correct answer is "86".

Q34. Answer: (a) A

The table shows the place value of the alphabet.
The pattern followed here is:
Hence, the correct answer is "A".

Q35. Answer: (c) 15, South

Distance between final position and Hospital = (49 - 34) m → 15 m
Hence, answer is ’15 m’.

Q36. Answer: (d) Move

GAME: GRAMOPHONE → Word can be formed.
NORM: GRAMOPHONE → Word can be formed.
RAM: GRAMOPHONE → Word can be formed.
MOVE: GRAMOPHONE → Cannot be formed as there is no ‘V’ in it.
Hence, the correct answer is "Move".

Q37. Answer: (c) muk

According to given information:-
As we can see clearly 'is' is coded as muk.
Hence, the correct answer is "muk".

Q38. Answer: (c) SFR

The table shows the place value of the alphabet.
The pattern followed here is:
Hence, the correct answer is ‘SFR’.

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Q39. Answer: (b) 145

The pattern/logic followed here is:

Hence, the correct answer is '145'.

Q40. Answer: (d) (64, 68, 70)

The Logic followed here is:-

First number + 4 → Second number

Second number + 4 → Third number

1) In (57, 61, 65)

57 + 4 = 61

61 + 4 = 65

2) In (92, 96, 100)

92 + 4 = 96

96 + 4 = 100

3) In (63, 67, 71)

63 + 4 = 67

67 + 4 = 71

4) In (64, 68, 70)

64 + 4 = 68

68 + 4 = 72 not 70

As can be seen clearly from the above that the group i.e. (64, 68, 70) is the odd one out as it doesn't follow the logic.

Hence, the correct answer is "(64, 68, 70)".

Q41. Answer: (c) 18

Symbol	•	•	×	÷
Meaning	•	×	÷	•

Given equation: 20 + 6 x 5 ÷ 20 - 14 = ?

On replacing the symbol:

20 × 6 ÷ 5 - 20 + 14 = ?

→ 20 × 1.2 - 20 + 14

→ 24 - 20 + 14

→ 38 - 20

→ 18

Hence, answer is '18'.

Q42. Answer: (c) ÷ and x

Given equation: 19 - 16 + 5 ÷ 10 x 2 = 28

1) After interchanging 'x and -' we get:

19 x 16 + 5 ÷ 10 - 2 = 28

LHS = 19 x 16 + 5 ÷ 10 - 2

→ 19 x 16 + 0.5 - 2

→ 304 + 0.5 - 2 ≠ RHS

2) After interchanging '÷ and -' we get:

19 ÷ 16 + 5 - 10 x 2 = 28

LHS = 19 ÷ 16 + 5 - 10 x 2

→ 1.1875 + 5 - 10 x 2 ≠ RHS

3)After interchanging '÷ and ×' we get:

19 - 16 + 5 × 10 ÷ 2 = 28

L.H.S : 19 - 16 + 5 × 10 ÷ 2

→ 19 - 16 + 5 × 5

→ 3 + 25

→ 28 = R.H.S

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4) After interchanging '- and +' we get:

19 + 16 - 5 ÷ 10 x 2 = 28

LHS = 19 + 16 - 5 ÷ 10 x 2

→ 19 + 16 - 0.5 x 2

→ 19 + 16 - 1 ≠ RHS

Hence, the correct answer is '÷ and ×'.

Q43. Answer: (b) 100

The Logic followed here is:-

(First number + Second number) × 10 = Result

Given:-

In 1&7 = 80

(1 + 7) × 10 = 80

In 4&5 = 90

(4 + 5) × 10 = 90

In 6&8 = 140

(6 + 8) × 10 = 140

Similarly,

In 5&5

(5 + 5) × 10 = 100

Hence, the correct answer is "100".

Q44. Answer: (b) XYXYXYxY

The pattern followed here is:-

There is a combination of 4 'XY' in which the letters starting from second position and in increasing order are small letters in each successive term

Table showing the pattern:-

X	**y**	**X**	**Y**	**X**	**Y**	**X**	**Y**
X	Y	x	Y	X	Y	X	Y
X	Y	X	y	X	Y	X	Y
X	Y	X	Y	x	Y	X	Y
X	Y	X	Y	X	y	X	Y
X	Y	X	Y	X	Y	x	Y

Hence, the correct answer is "XYXYXYxY".

Q45. Answer: (b) 90 miles East

Hence, answer is '90 miles East'.

Q46. Answer: (b) Only conclusion II follows

Conclusion I: All windows are openings → False (As all doors are windows and no openings are windows)

Conclusion II: No openings are doors → True (As all doors are windows and no openings are windows)

Hence, only conclusion II follows.

Q47. Answer: (b) JA

According to the given information:-

Rectangle that represents Reporters are → F, H, A, B, C and D

Circle that represents Dancers are → C, D and E

Triangle that represents Playwrights are → I, J, A, B and C

Square that represents Boxers are → G, H, A and J

We can see that the shaded part in the diagram as well as the common letter of the figure in triangle and square i.e. AJ denote the set of letter who are Boxers as well as Playwrights.

Hence, the correct answer is "AJ".

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Q48. Answer: (d) [figure]

The correct mirror image of the given figure when a mirror is placed on the line MN is as shown below:-

Hence, the correct answer is "Option 4".

Q49. Answer: (a) [figure]

From the figure we can conclude:

1) The face of dice with star will be opposite to the side with four squares.

2) The side with cross will be opposite the side with circle.

3) The side with circle and square will be opposite to the side with five small circles.

Hence, the correct answer is "Option 1".

Q50. Answer: (a) 44,34,68,10

The pattern followed here is:-

A letter is represented first by its row number of the matrix then by its column number of the matrix.

1) In 44, 34, 68, 10

44 → H; 34 → I; 68 → N; 10 → D (So, the word formed is 'HIND')

2) In 11, 89, 13, 77

11 → D; 89 → Y; 13 → F; 77 → P (So, the Letter formed is 'DYFP')

3) In 20, 88, 11, 86

20 → F; 88 → X; 11 → D; 86 → V (So, the Letter formed is 'FXDV')

4) In 42, 67, 12, 89

42 → D; 67 → T; 12 → A; 89 → Y (So, the Letter formed is 'DTAY')

Hence, the correct answer is "44,34,68,10".

Q51. Answer: (a) 800

Calculation:

Let the number be ‘x’

=> (66% of x) – (44% of x) = 275

=> 0.66x – 0.44x = 275

=> 0.22x = 275

=> x = 275/0.22 = 1250

Therefore 64% of the number = 0.64 × 1250 = 800

Q52. Answer: (b) 4

Laws of Indices:

1. a^m × aⁿ= a^({m + n})

2. a^m÷ aⁿ= a^({m - n})

3. (a^m)ⁿ= a^(mn)

4. (a)^(-m)= 1/a^m

5. (a)^(m/n) = ⁿ√a^m

6. (a)^0= 1

Calculation:

(5^(1/4)– 1)(5^(3/4)+ 5^(1/2) + 5^(1/4) + 1)

=> (5^(1/4)× 5^(3/4)) + (5^(1/4)× 5^(1/2)) + (5^(1/4)× 5^(1/4)) + 5^(1/4) – 5^(3/4) – 5^(1/2) – 5^(1/4)– 1

=> 5 + 5^(3/4) + 5^(1/2) + 5^(1/4) – 5^(3/4) – 5^(1/2) – 5^(1/4)– 1

=> 5 – 1

=> 4

Q53. Answer: (a) 0.5

Given:

√(2 + 7x) = √(3x + 4)

Calculation:

Squaring both sides,

=> 2 + 7x = 3x + 4
=> 7x – 3x = 4 – 2
=> 4x = 2
=> x = 2/4 = 0.5

Q54. Answer: (d) 26

Calculation:
Let the consecutive even numbers be ‘x’ and ‘(x + 2)’
Product of numbers = 168
=> x(x + 2) = 168
=> x^2 + 2x – 168 = 0
=> x^2 + 14x – 12x – 168 = 0
=> x(x + 14) – 12(x + 14) = 0
=> (x + 14)(x – 12) = 0
=> x = – 14, 12 (Neglecting negative values)
=> x + 2 = 12 + 2 = 14
Therefore Sum of the numbers = 12 + 14 = 26
Shortcut TrickWe will solve it using unit digits.
The unit digit of the number is 168.
The unit digits of two consecutive even numbers whose product of the digits is 8 = 2 × 4
Hence, the unit digits of the unknown numbers = 2 and 4
The sum of unit digits = 2 + 4 = 6
The unit digit of our answer must be equal to 6.
Therefore The sum is 26.

Q55. Answer: (b) 3

Calculation:
The given triangle can be drawn as:
Considering similar triangles ΔABC and ΔADE,
Because Their corresponding sides are in proportion,
=> AB/AD = BC/DE
Given, AD = (1/6)AB and BC = 18 cm
=> AB/(1/6)AB = 18/DE
=> 6 = 18/DE
Therefore DE = 18/6 = 3 cm

Q56. Answer: (b) BC/EF = AL/DM

Calculation:
Because Triangles ΔABC and ΔDEF are similar and equiangular triangles and their corresponding sides are in proportion,
=> AB/DE = BC/EF
Similarly, ΔABL and ΔDEM are also similar and equiangular triangles and their corresponding sides are in proportion,
=> AB/DE = AL/DM
Equating the above relations, we get,
=> BC/EF = AL/DM

Q57. Answer: (d) 600000

GIVEN:
Rate of Depreciation = 15%
Present value = Rs. 433500
FORMULA USED:
Value n years ago = P/[(1 – R/100)n]
CALCULATION:
If the present value of an article is Rs. P and it depreciates at a rate of R% per annum, then,

Its value n years ago = $P/[(1 – R/100)^n]$

Given, P = Rs. 433500, R = 15%, n = 2 years

Therefore Its value 2 years ago = $433500/[(1 – 15/100)^2] = 433500/0.7225$ = Rs. 600000

Alternate MethodFormula used: a + b - ab/100Equivalent rate of depreciation for two years = 15 + 15 - (15 × 15)/100

=> 30 - 2.25 = 27.75%

Let the current value is 100.

The value before 2 years = 100 - 27.75 = 72.25

72.25 units = 433500

1 unit = 6000

100 units = 600000

Therefore The current value is 600000.

Q58. Answer: (a) 4 : 25

Given:

A : B : C = 2 : 3 : 5

Calculation:

Multiplying by 2,

=> A : B : C = 4 : 6 : 10

Also, C : D = 2 : 5

Multiplying by 5,

=> C : D = 10 : 25

Therefore A : D = 4 : 25

Q59. Answer: (c) 3 : 1

Given:

In a mixture of 35 litres, the ratio of water and acid is 6: 1. If 5 litres of acid is added to the mixture, the Ratio of water and acid in the initial mixture = 6 : 1

Calculation:

Sum of ratios = 6 + 1 = 7

Quantity of acid in 35 litres of initial mixture = (1/7) × 35 = 5 litres

When 5 litres of acid is added to 35 litres of the initial mixture,

Quantity of new mixture = 35 + 5 = 40 litres

Quantity of acid in new mixture = 5 + 5 = 10 litres

Quantity of water in new mixture = 40 – 10 = 30 litres

Therefore Water-acid ratio in new mixture = 30 : 10 = 3 : 1

Q60. Answer: (d) 173

Calculation:

Total savings in five days = 5 × 160 = Rs. 800

Total savings in first 4 days = 155 + 170 + 134 + 168 = Rs. 627

Therefore Saving of 5^(th) day = 800 – 627 = Rs. 173

Q61. Answer: (a) 6998.4

Calculation:

When the interest is compounded annually on a sum of Rs. P at R% per annum, then

Amount after n years = $P[(1 + R/100)^n]$

Hence, when P = Rs. 6000, R = 8%

Therefore Amount after 2 years = $6000 × [(1 + 8/100)^2] = 6000 × 1.1664$ = Rs. 6998.4

Q62. Answer: (d) 190.32

Calculation:

Cost price = Rs. 122

Profit % = 56%

Because Selling price = Cost price + Profit

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Therefore Selling price of article = 122 + 56% of 122 = 122 + 68.32 = Rs. 190.32

Q63. Answer: (a) 6 : 5

Calculation:

Let the Marked price be Rs. 'x'

Selling price = (4/5)x

If there is a loss of 4%, then, Cost price – loss = Selling price

=> CP – 4% of CP = (4/5)x

=> 96% of CP = (4/5)x

=> (24/25) CP = (4/5)x

=> CP = (5/6)x

Therefore Ratio of Marked price to Cost price = x : (5/6)x = 6 : 5

Q64. Answer: (a) √7 + 2√3

Calculation:

Let √[19 + 4√21] = √x + √y

Squaring both sides, we get,

=> 19 + 4√21 = x + y + 2√xy

=> 19 + 2√(4 × 21) = x + y + 2√xy

Hence on comparing,

=> x + y = 19 ----(1)

=> xy = 21 × 4 = 84 ----(2)

Substituting (1) in (2), we get,

=> x(19 – x) = 84

=> x^2 – 19x + 84 = 0

=> x^2 – 7x – 12x + 84 = 0

=> x(x – 7) – 12(x – 7) = 0

=> (x – 7)(x – 12) = 0

=> x = 7, 12

=> y = 12, 7

Therefore Positive square root of [19 + 4√21] = √7 + √12 = √7 + 2√3

Alternate Solution:

(19 + 4√21) = {12 + 7 + 2√(4 × 21)}

= {$(√7)^2$+ $(√12)^2$+ 2√(7 × 12)}

= $(√7 + √12)^2$

=> √(19 + 4√21) = √{(√7 + √12)2} = √7 + √12

= √7 + 2√3

Q65. Answer: (b) 125/12

Calculation:

18 men 1-day work = 1/25

1 men 1 day work = 1/(18 × 25) = 1/450

36 men 1 day work = 36 × 1/450 = 2/25

Similarly,

25 boys 1 day work = 1/25

1 boy 1 day work = 1/(25 × 25) = 1/625

10 boys 1 day work = 10 × 1/625 = 2/125

Hence,

1 day work of 36 men and 10 boys = 2/25 + 2/125 = 12/125

Therefore 36 men and 10 boys will complete the work in 125/12 days

Alternate Method According to the question,

18 × M = 25 × B

=> M/B = 25/18

Total work = 25 × 25 × 18
Total efficiency = 36 × 25 + 10 × 18
=> 1080
Required time = (25 × 25 × 18)/1080
=> 125/12 days

Q66. Answer: (d) 180

Given:
Distance = 450 m
Time = 9 seconds
Formula used:
Speed = Distance/Time
Calculation:
Speed of Vipin = Distance traveled by Vipin/Time taken
=> 450/9 = 50 m/sec.
=> 50 × (18/5) = 180 km/hr

Q67. Answer: (b) 2014

In the year 2012, 2015 and 2016, the number of vacancies are more than their previous year
No. of vacancies in 2014 = 30
No. of vacancies in 2013 = 55
Therefore The no. of vacancies are lesser than the previous year in 2014

Q68. Answer: (c) 70

No. of vacancies in 2016 = 100
No. of vacancies in 2014 = 30
Therefore Required differnce = 100 – 30 = 70

Q69. Answer: (b) 0.7

No. of vacancies in 2016 = 100
No. of vacancies in 2014 = 30
Therefore The number of vacancies in 2014 were lesser than that in 2016 by = (100 – 30)/100 = 70% = 0.7

Q70. Answer: (d) 12

Salary of an executive = Rs. 30000
No. of vacancies in 2017 = 40
Therefore Increase in the expense = 30000 × 40 = Rs. 1200000 = Rs. 12 lakhs

Q71. Answer: (c) 54

Calculation:
Area of a trapezium = [(sum of parallel sides) × (height of trapezium)]/2
Area of given trapezium = [(10 + 8) × 6]/2
= 9 × 6
= 54 cm^2
Therefore Area of given trapezium is 54 cm^2

Q72. Answer: (b) 22

Calculation:
Diameter (d) of circle = 7 cm
Radius (r) = 7/2
Circumference of a circle = 2πr
Using π = 22/7
Circumference of given circle = 2 × 22/7 × 7/2
=> 22 cm

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Therefore The circumference of the circle is 22 cm.

Q73. Answer: (b) 274.625

Calculation:

Volume of a cube = $(side)^3$

Volume of the cube with side 6.5 cm = $(6.5)^3$

= 274.625 cm^3

Therefore Volume of the cube is 274.625 cm3

Q74. Answer: (b) (1 + 2√3)/2

Given:

in ΔDEF, angle E = 90° and angle D = 30°

Calculation:

Sum of angles of a triangle = 180°

=> angle D + angle E + angle F = 180°

=> 30° + 90° + angle F = 180°

=> angle F = 180° – 120° = 60°

(cos F + √3) = cos 60° + √3

= ½ + √3

= (1 + 2√3)/2

Q75. Answer: (c) 15/8

Calculation:

In the given ΔDEF shown below,

sin D = opposite/hypotenuse = EF/DF = 15/17

=> EF = 15 units and DF = 17 units

Using Pythagoras's theorem,

=> $DE^2 = DF^2 - EF^2 = 17^2 - 15^2 = 289 - 225 = 64$

=> DE = √64 = 8 units

Therefore cot F = hypotenuse/opposite = EF/DE = 15/8

Q76. Answer: (a) Titanic

The correct answer is Titanic.

Key Points

• Titanic:-

• It is an American movie honored with eleven Oscar Awards including Best Picture and Best Director on 23^(rd) March 1998.

• Though the film was nominated for 14 awards but won in 11 categories only.

• James Cameron is the director of this movie.

Additional Information

• Oscars:-

• The Oscar Award is cinema's most prestigious award,

• It is awarded to recognize the excellence of professionals including directors, actors, and writers in the film industry.

• The award is organized annually by the American Academy of Motion Picture Arts and Sciences (AMPAS).

• The award consists of 24 categories. Those given for artistic and technical qualifications in the film industry.

• This is the award ceremony given to the world's oldest cinema world.

• Award winners are given a copy of a gold statue.

• It is officially known as 'Academy Award Merit' and commonly known as 'Oscar'.

Q77. Answer: (a) Rajasthan

The correct answer is Rajasthan.

Key Points

• Chittorgarh Fort:-

• It is located in the southern part of Rajasthan.

• Earlier the fort was the capital of Mewar district.

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• It is one of the largest forts in India at 180 meters in height.
• It is also included in the list of UNESCO World Heritage Sites.
• Rana Kumbha Palace is the oldest monument of this fort.

Q78. Answer: (d) Small intestine

The correct answer is the small intestine.

Key Points

• The small intestine is the main digester and absorber of food.
• It consists of three parts namely - Duodenum, Jejunum, and Ileum.
• Duodenum - It is the first part of the small intestine. It helps in the digestion of chyme in food.
• Jejunum - It is the second part of the small intestine. Most of the nutrients take place in it.
• Ileum - It is the third part of the small intestine. It absorbs nutrients that did not get absorbed by the jejunum.
• Colan is part of the large intestine and the Liver is part of the digestive gland in the stomach.

Additional Information

• Stomach :
• The stomach is a muscular organ located on the left side of the upper abdomen.
• The stomach receives food from the esophagus.
• As food reaches the end of the esophagus, it enters the stomach through a muscular valve called the lower esophageal sphincter.
• The stomach secretes acid and enzymes that digest food.
• Liver
• The liver plays a central role in maintaining blood glucose levels.
• When the body doesn't need to use glucose for energy, it stores it in the liver and muscles.
• This stored form of glucose is made up of many connected glucose molecules and is called glycogen.
• When the body needs more energy, certain proteins called enzymes break down glycogen into glucose.
• They send the glucose out into the body.
• This is stimulated by the insulin release of around 100g of glycogen stored in the liver.
• Colon
• The term colon is sometimes used to refer to the entire large intestine.
• The primary function of the large intestine, however, is the absorption of water, electrolytes, and vitamins from digestive residues (a process that usually takes 24 to 30 hours) and the storage of fecal matter until it can be expelled.
• The last stages of chemical digestion occur in the large intestine through bacterial action. Substances are further broken down and some vitamins are synthesized.

Q79. Answer: (b) Aspirin

The correct answer is Aspirin.

Explanation:

• The bark of the willow tree is a source of the medicine “Aspirin”.
• It is a pain reliever medicine made up of the active ingredients of willow bark which is known as salicin.
• It is a herbal medicine tree that grows all around the world besides Antarctica and Australia.
• Tea can also be made out of it to cure a headache and fevers.

Q80. Answer: (d) Goat

The correct answer is Goat.

Key Points

• Capra Hircus is the scientific name of “Goat”.

Additional Information

Animals	Scientific Name
Sheep	Ovis aries
Cow	Bos indicus
Horse	Equus caballus

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Q81. Answer: (c) Speeds up chemical reaction

Functions of a catalyst in a chemical reaction:

• A positive catalyst speeds up a chemical reaction.

• A catalyst lowers the activation energy to a chemical reaction for it to start and happen quickly.

• It accelerates the rate of reaction.

• Note: An Inhibitor slows down a reaction.

Key Points

• Inhibitor: An inhibitor is a substance that slows down or retard a chemical reaction.Example: Acetanilide slows down the decomposition of hydrogen peroxide. $2H_2O_2 \rightarrow 2H_2O + O_2$

• Promoter: A promoter is a substance which added with a catalyst to increase its activity or selectivity. Example: Traces of molybdenum is used as a promoter in the Haber process(formation of ammonia) to increase the catalytic activity of iron

• Moderator: Moderators are used in nuclear reactors to slow down the fast-moving neutrons. Example: Graphite, heavy water(D_2O).

Q82. Answer: (a) Silver

The correct answer is Silver.

Explanation:

• Silver atomic no is greater than Bromine.

• Silver has a higher atomic number when compared to Bromine.

• In the periodic table also Silver has an atomic number 47, whereas bromine has atomic number 35.

Q83. Answer: (b) Graphical User Interface

The correct answer is Graphical User Interface.

Key Points

• Graphical User Interface:-

• It is a form of user interface that allows users to interact with electronic devices.

• The GUI interacts with electronic devices through graphical icons and visual indicators such as secondary notation, instead of text-based user interfaces, typed command labels, or text navigation.

Q84. Answer: (a) Puducherry

The correct answer is Puducherry.

Key Points

• Part XVII of the Constitution of India deals with the official language.

• It contains Article 343 to Article 351.

• It consists of the following chapters:

1. Language of the Union
2. Regional Languages
3. Languages of the Supreme Court, High Court, etc.
4. Special Directives

Additional Information

Union Territories	Official Language
Puducherry	Tamil
Dadra and Nagar Haveli	Marathi
Daman and Diu	Gujarati
Delhi	Hindi

Q85. Answer: (a) 2.5 percent

The correct answer is 2.5 per cent.

Key Points

• Here percentage method (Ed) = -1.6

• Percentage change in quantity demanded = 4

• Percentage change in price =?

• So as per the formula,

• The Elasticity of demand (Ed) = Percentage change in quantity demanded/Percentage change in price.

• Percentage change in price = -4/1.6 = -2.5.

• Hence the prices have to be reduced by 2.5 per cent.

Additional Information

ELASTICITY OF DEMAND

• The demand for goods moves in the opposite direction of their price. But the impact of the price change is always not the same. Sometimes, the demand for goods changes considerably, even for small price changes. On the other hand, there are some goods for which the demand is not affected much by price changes.

• Demands for some goods are very responsive to price changes, while demands for certain others are not so responsive to price changes.

• Price elasticity of demand is a measure of the responsiveness of the demand for a good to changes in its price.

• The price elasticity of demand for a good is defined as the percentage change in demand for the good divided by the percentage change in its price.

Q86. Answer: (c) increase; decrease

The correct answer is increase; decrease.

Key Points

• Here, are some facts about the supply and demand of a quantity in economics:

• If the price of steel increases, then the equilibrium price of new two-wheelers will increase and the equilibrium quantity will decrease.

• If the price of steel increases, the supply curve for two-wheelers will shift to the left because the suppliers are unable to bear high-priced steel to make cars, it compels the suppliers to produce less.

• The demand curve will remain the same.

• The equilibrium price will increase due to the fact that the suppliers want more money because they are losing money when buying expensive steel.

• The number (quantity) of two-wheelers will decrease because the suppliers are not interested to buy expensive steel to make and sell a large number of two-wheelers.

Q87. Answer: (d) Parasitic

The correct answer is Parasitic.

Explanation:

• Key facts about pathogens and the diseases caused by them:

• Parasitic type of pathogen causes the water-borne disease Ascariasis.

• It is a roundworm organism found in the small intestine and mostly occurs in children.

• The infection takes place by eating food or drinking contaminated water with Ascaris eggs from human excreta.

• Abdominal pain, Abdominal swelling, shortness of breathing, fever and diarrhoea are the main symptoms of this disease.

• Ascaris is a commonly found parasitic worm in humans.

• Ascariasis, a type of helminthiasis, is one of the groups of neglected tropical diseases.

• This disease is prevalent worldwide, especially in tropical and subtropical countries.

• Parasitic type of pathogen causes the water-borne disease Ascariasis.

• It is a roundworm organism found in the small intestine that mostly occurs in children.

• The infection takes place by eating food or drinking contaminated water with Ascaris eggs from human excreta.

• Abdominal pain, Abdominal swelling, shortness of breathing, fever, and diarrhoea are the main symptoms of this disease.

Q88. Answer: (d) Bacterial

Key Points

• Bacterial type of pathogen causes the water-borne disease dysentery.

• It is an inflammatory disease of the intestine mostly in the colon which prompts diarrhoea and abdominal pains.

• It is caused by various types of infectious pathogens such as bacteria, viruses, and parasites.

• Its most common symptoms are fever and dysentery.

Confusion Points

• The cause of dysentery is usually the bacteria from genus Shigella, in which case it is known as shigellosis, or the amoeba Entamoeba histolytica; then it is called amoebiasis.

• Hence the correct answer is bacteria.

Q89. Answer: (a) Coal

The correct answer is Coal.

Key Points

• Coal:-

• It is the major electricity generation power source in India.

• There are different types of thermal power plants based on the fuel, used to produce steam such as coal, gas, diesel and natural gas.

• It is the main source of electricity because coal-fired power plants convert coal to gas for use in a gas cylinder to produce electricity.

Additional Information

• Nuclear power

• Nuclear power is the fifth-largest source of electricity in India.

• As of March 2017, India has 22 nuclear reactors in operation at seven sites, having an installed capacity of 6780 MW.

• It produces a total of 30,292.91 GWh of electricity.

• 11 more reactors are under construction to generate an additional 8,100 MW.

• Hydro power

• India is 5th globally for installed hydroelectric power capacity

• India's hydroelectric power potential is estimated at 148,700 MW at 60% of load factor.

• In the fiscal year 2019–20, the total hydroelectric power generated in India was 156 TWh.

Q90. Answer: (b) Cartographer

The correct answer is Cartographer.

Key Points

• A person, who draws or makes maps or charts, is called Cartographer.

Additional Information

Occupation	Role
Hydrographer	Who measures the physical features of seas, oceans, rivers, lakes and coastal areas.
Cartographer	Someone who draws or makes maps or charts
Seismographer	Who measures and records earthquakes and other ground vibrations.
Lexicographer	a person who compiles dictionaries.

Q91. Answer: (a) Raja Raja Chola I

The correct answer is Raja Raja Chola I

Key Points

• Brihadeshwara Temple of Thanjavur

• It was built by Raja Raja Chola I.

• Brihadeshwara Temple, Thanjavur is in Tamil Nadu. It is a Hindu Temple dedicated to Lord Shiva.

• It is one of the largest Temple in the southern part of India.

• It is built between 1003 and 1010 AD by Raja Raja Chola I in Dravidian architecture style.

• It is in the list of UNESCO World Heritage Site.

• It is also called as Dakshina Meru which simplifies “Meru of South”.

• Rajaraja Chola I (985 - 1014 AD):

• He was one of the greatest emperors of the Chola empire.

• In his reign, the Cholas expanded beyond South India stretching from Klinga in the north to Sri Lanka in the south.

• He fought many battles with the Chalukyas in the north and the Pandyas in the south.

• He built the Brihadishwara temple in Thanjavur dedicated to Lord Shiva.

• He also helped in the construction of a Buddhist monastery at Nagapattinam.

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• He was succeeded by his son Rajendra Chola I in 1014 AD.

Additional Information

• Rajendra Chola I (1014-44 AD):

• He was considered as one of the greatest rulers and military generals of south India.

• He continued his father's policy of aggressive conquests and expansion.

• Apart from reaching northwards to river Ganga and moving overseas to the Maldives and Sri Lanka, he also invaded the Southeast Asian territories.

• He defeated Jayasimha II of the western Chalukyas and consequently, River Tungabhadra was recognized as the boundary between the Cholas and Chalukyas.

• He founded the city Gangaikondacholapuram and constructed the famous Rameshwaram temple in the city.

• He also excavated a large irrigation tank called Cholagangam on the western side of the city.

• He assumed many titles, the most important ones being Mudikondan, Gangaikondan, Kadaram Kondan and Pandita Cholan.

• He built Shiva temple at Gangaikondacholapuram.

• Rajaraja II:

• The Chola emperor Rajaraja II ruled from 1150 to 1173 CE.

• The inscriptions of Rajaraja II date his rule to 1146 because he was appointed his heir apparent and Co-Regent in that year.

• During Rajaraja's reign, indications of the dynasty's impending collapse started to appear.

Q92. Answer: (b) Mahatma Gandhi

About Salt March:

• Salt March is also known as Dandi March was initiated by Mahatma Gandhi.

• It was started on 12 March 1930 and rallied for 24 days at Sabarmati near Ahmedabad.

• Gandhiji and more than thousands of people got arrested while making their own salt as a protest of British rule and British taxation of salt production to make it legal and tax-free.

• It ultimately turned into a victory when the British unleashed the protesters from prison and granted the people to make their own salt.

Q93. Answer: (c) 1922

The correct answer is 1922.

Key Points

• Chauri-Chaura incident:-

• The Chauri Chaura incident took place on 5^(th) February 1922 in the Gorakhpur District of Uttar Pradesh.

• During the Non-cooperation Movement, a group of protestors clashed with the local Police and as a result of this, Policemen opened fire on the protestors.

• Many leaders of the Non-Cooperation Movement were arrested and locked up at the Chauri Chaura police station.

• Response to the beatings and imprisonment of verification against the police on the following day was known to be as Chauri Chaura incident.

Additional Information

• Non-Cooperation Movement (1920-1922):

• Mahatma Gandhi announced his plan to begin Non-Cooperation with the government as a response to the Rowlatt Act, the Jallianwala Bagh massacre, and the Khilafat movement.

• Programs:

• Surrender of titles and honorary position

• Resignation of membership from the local bodies

• Boycott of elections held under the provisions of the 1919 Act

• Boycott of government functions

• Boycott of courts, government schools, and colleges

• Boycott foreign goods

• Establishment of national schools, colleges, and private panchayat courts

• Popularising Swadeshi goods and Khadi

Q94. Answer: (a) Alexander Graham Bell

Alexander Graham Bell invented Telephone.

Inventor	Invented	Nationality
Alexander Graham Bell	Telephone	American
Thomas Edison	Incandescent light bulb	American
Benjamin Franklin	Lightning rod	American
James Watt	Watt steam engine	Scottish, British

Q95. Answer: (d) Psophometer

The correct answer is Psophometer.

Key Points

• The Psophometer measures AF(Audio Frequency) signal level and noise.

Additional Information

Instrument	Measures
Vectorscope	The colour components of a video signal.
VU meter(volume unit)	The volume of analogue audio signals.
Q meter	The testing of radio frequency circuits
Psophometer	The perceptible noise of a telephone circuit.

Q96. Answer: (b) [ALT^(-2)]

The correct answer is [ALT-2].

Key Points

• The process of defining dimensions for the physical quantities:

• If a physical quantity has the units - ampere meters per second squared, then its dimensions are [ALT^(-2)].

• Ampere is Electric current (Rate of flow of electrical charge per unit time) and its dimension is A.

• Metre is Length (one dimension extent of an object) and dimension is L.

• The Second is Time (The duration of an event) and its dimension is T.

Q97. Answer: (b) 1976

The correct answer is 1976

Key Points

• The 42nd Amendment of the Constitution of India:

• The 42^(nd) Amendment of the Constitution of India was enacted in the year 1976.

• It is officially known as the Constitution Act, of 1976.

• It was enacted during the Emergency by the Indian National Congress Head Indira Gandhi.

• It is considered the most controversial Constitutional Amendment in Indian history.

• Added three new Directive Principles viz., equal justice and free legal aid, the participation of workers in the management of industries, and protection of the environment, forests, and wildlife.

• Provided for the creation of the All-India Judicial Service.

Shortened the procedure for disciplinary action by taking away the right of a civil servant to make representation at the second stage after the inquiry (i.e., on the penalty proposed).

• It is often called a "mini-Constitution" or the "Constitution of Indira".

Additional Information

• Amendment in the Constitution of India:-

• Article 368 in Part XX deals with the powers of Parliament to amend the Constitution and its procedure.

• Parliament cannot amend those provisions which form the 'basic structure of the Constitution'. (Kesavananda Bharti Case)

• The amendment of the Constitution can be initiated by the introduction of a bill in either house of the Parliament. (does not in the legislature)

• The bill can be introduced either by a minister or by a private member. (does not require prior permission of the President)

• It must be passed in each house by a special majority. (the majority of the total membership of the house and a majority of 2/3rd of the members of the house present and voting)

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• Each house must pass the bill separately. (no provision for joint sittings)

• If the bill is for amending the federal structure of the Constitution, then it must be ratified by the legislature of half of the states by a simple majority. (the majority of the members of the house present and voting)

• President must give his assent to the bill. (neither withhold his assent nor return the bill)

• After the assent of the President, the bill becomes an Act.

Q98. Answer: (b) 5

The correct answer is option 2, i.e. 5.

Key facts of Chhattisgarh:

• The number of parliamentary seats (Rajya Sabha) of Chhattisgarh is 5.

States	Rajya Sabha Seats
Uttarakhand, National Capital Territory of Delhi and Himachal Pradesh.	3
Chhattisgarh and Haryana	5
Andhra Pradesh, Gujarat and Madhya Pradesh	11
Bihar and West Bengal	16

Q99. Answer: (a) Russia

Russia's seven swimmers were banned from the Rio Olympics.

• They are banned by the Governing body of World Aquatics FINA (Federation Internationale De Natation) over doping allegations.

• The swimmers who bannedin 2016 Olympics are Mikhail Dovgalyuk, Daria Ustinova, Natalia Lovtcova, Anastasia Krapivina, Vladimir Morozov, Yulia Efimova and Nikita Lobintsev.

Q100. Answer: (b) Shashi Tharoor

About Shashi Tharoor:

• Shashi Tharoor is the author of "The Great Indian Novel".

• He is the winner of the Commonwealth Writers Prize and Head of the Department of Public Information of the United Nations respectively.

• The novel is a fictional story, combined with epic Mahabharata and the history of Indian independence.

• The novel consists of eighteen books.

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