SSC CHSL Previous Paper 45 (Held On: 23 March 2018 Shift 2) (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. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) valedection
(b) velediction
(c) veledection
(d) valediction

Q2. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

In those days

A- ambulances available on

B- call to ferry patients to hospitals

C- there were hardly any

(a) BCA
(b) BAC
(c) ACB
(d) CAB

Q3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'.

You (have been) a very good girl.

(a) has been
(b) is been
(c) have being
(d) no improvement

Q4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select 'no improvement'.

There was hardly any traffic and my father told us the history of the place we (is trekking) to.

(a) was trekking
(b) were trekking
(c) were trek
(d) no improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Exposed to the possibility of being attacked or harmed, either physically or emotionally

(a) Robust
(b) Tenacious
(c) Vulnerable

(d) Stout

Q6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A stately or impressive building housing a tomb or group of tombs

(a) Mausoleum
(b) Shanty
(c) Hovel
(d) Tepee

Q7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Bend over backwards

(a) Use unfair means to succeed.
(b) Make every effort to achieve something, especially to be fair or helpful.
(c) Lose self respect to please others.
(d) To step back from an unpleasant situation.

Q8. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

A cold fish

(a) Someone who seems unfriendly and who does not share his feelings.
(b) Something valuable preserved for a long time.
(c) A lost business opportunity.
(d) A fish which can survive in freezing water.

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.

But there is _____ reason to worry that the next Shakespeare or Valmiki is being suppressed by social media. _____ is also crowd-sourced even though we just can't see the forest for the trees when so many postings, I mean trees, seem to take birth _____ die every minute. I am certain that some great creative personalities will emerge in art, ____ and literature from social media. Instant stars are born via viral postings but self-selection _____be the best filter to extract the superstars of the ilk of history's greatest.

Q9. But there is _____ reason to worry

(a) none
(b) neither
(c) nor
(d) no

Q10. social media. _____ is also crowd-sourced

(a) Creativity
(b) Creative
(c) Creation
(d) Create

Q11. take birth _____ die every minute.

(a) nor
(b) and
(c) for
(d) neither

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Q12. emerge in art, _____ and literature

(a) musically
(b) musician
(c) musical
(d) music

Q13. self-selection _____ be the best

(a) since
(b) until
(c) may
(d) whether

Q14. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Accommodate
(b) Acommodate
(c) Accomodate
(d) Accomeodate

Q15. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

"Is it snowing?" she asked.

(a) She asked whether the snow has started.
(b) She inquired about the snow.
(c) She ask whether it was snowing.
(d) She asked if it was snowing.

Q16. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

He ate pizza ravenously.

(a) Pizza is eaten by him.
(b) Pizza was eaten ravenously by him.
(c) Pizza was ate ravenously by him.
(d) Pizza ate ravenously by him.

Q17. Rearrange the parts of the sentence in correct order.

The majority of

P : during the general elections

Q : highly educated Indians

R : do not vote

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

Q18. In the following question, out of the given four alternatives, select the one which is opposite in the meaning of the given word.

Scholarly

(a) Learned
(b) Ignorant
(c) Cultured
(d) Trained

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Q19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Baffling

(a) Puzzling
(b) Unclear
(c) Mystifying
(d) Comprehensible

Q20. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Monolithic

(a) Huge
(b) Written
(c) Minute
(d) Cramped

Q21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Devoid

(a) Empty
(b) Complete
(c) Sufficient
(d) Happy

Q22. 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.

The mind gives man the ability to understand, think and feel and is the _____ of the soul.

(a) Innovation
(b) Temptation
(c) Invention
(d) Manifestation

Q23. 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.

Everyone is mad _____ each other.

(a) to
(b) for
(c) towards
(d) at

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'.

The British Council has brought the Museum of the Moon to India (1)/ to mark the last phase of the UK-India Year of Culture (2)/ and 70 year of the British Council in India. (3)/ No error (4)

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

Q25. 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'.

The bell rung (1)/ while I (2)/ was brushing my teeth. (3)/ No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

Q26. In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem 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: Medicines today have become an integral part of everyone's life.

Statement II: People undergo medicinal treatment at any age.

Conclusion I: Lifestyle has made us easy going and less caring for health.

Conclusion II: Medicines have become a compulsory part of one's life

(a) Only conclusion 2 follows
(b) Conclusion 1 and 2 both follow
(c) Neither 1 nor 2 follows
(d) Only conclusion 1 follows

Q27. Select the related word from the given alternatives.

Rickets : Bone :: Thalassemia : ?

(a) Brain
(b) Kidney
(c) Blood
(d) Liver

Q28. Select the related word/letters/number from the given alternatives.

FG : 13 : : UV : ?

(a) 45
(b) 55
(c) 21
(d) 43

Q29. Select the odd word from the given alternatives.

(a) Light pen
(b) Monitor
(c) Printer
(d) Speaker

Q30. Select the related word/letters/number from the given alternatives.

543 : 12 : : 764 : ?

(a) 25
(b) 17
(c) 23
(d) 16

Q31. Select the odd word/letters/number/number pair from the given alternatives.

(a) PT
(b) DH
(c) VZ
(d) KN

Q32. Select the odd word/letters/number/number pair from the given alternatives.

(a) 190
(b) 149
(c) 197

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(d) 191

Q33. Select the odd word/letters/number/number pair from the given alternatives.

(a) 363
(b) 297
(c) 253
(d) 487

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

Triangle, Square, Pentagon, ?

(a) Decagon
(b) Heptagon
(c) Octagon
(d) Hexagon

Q35. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

200, ?, 50, 25, 12.5

(a) 123
(b) 225
(c) 100
(d) 198

Q36. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

40, 70, 130, 220, ?

(a) 425
(b) 430
(c) 150
(d) 340

Q37. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

DFE, GIH, JLK, ?

(a) LTS
(b) IJK
(c) MON
(d) PRS

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

IJ, MN, RS, ?

(a) NM
(b) BA
(c) OP
(d) XY

Q39. If the tenth day of a month having 30 days is Tuesday, then what day of the week will the last day of the same month be?

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

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Q40. Arrange the given words in the sequence in which they occur in the dictionary.

i. Derogate

ii. Dictum

iii. Dictate

iv. Dictionary

(a) iv, ii, i, iii
(b) iii, iv, ii, i
(c) iv, iii, i, ii
(d) i, iii, iv, ii

Q41. In a certain code language, “INTERVIEW” is written as “VIEWRINTE” How is “PROTECT” written in that code language?

(a) ECTTPRO
(b) ETCTPRO
(c) ECTTPOR
(d) CETTPRO

Q42. In the following question, select the missing number from the given series.

54	**9**	**45**
61	12	49
45	10	?

(a) 45
(b) 10
(c) 35
(d) 50

Q43. If “A” denotes “added to”, “C” denotes “divided by”, “D” denotes “multiplied by” and “B” denotes “subtracted from”, then 192 C 2 D 5 B 8 A 6 = ?

(a) 402
(b) 495
(c) 478
(d) 132

Q44. In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

x_za_c_yzab_

(a) ybba
(b) ybxc
(c) bycx
(d) Cccx

Q45. A watch shows 4:30 AM. If the minute hand is pointing towards north, then which direction is the hour hand pointing to?

(a) East
(b) South
(c) North-west
(d) South-west

Q46. A word is represented by only one 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 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, ‘N’ can be represented by 21, 67 etc. and ‘R’ can be represented by 66, 98 etc. Similarly, you have to identify the set for the word ‘HUMP’.

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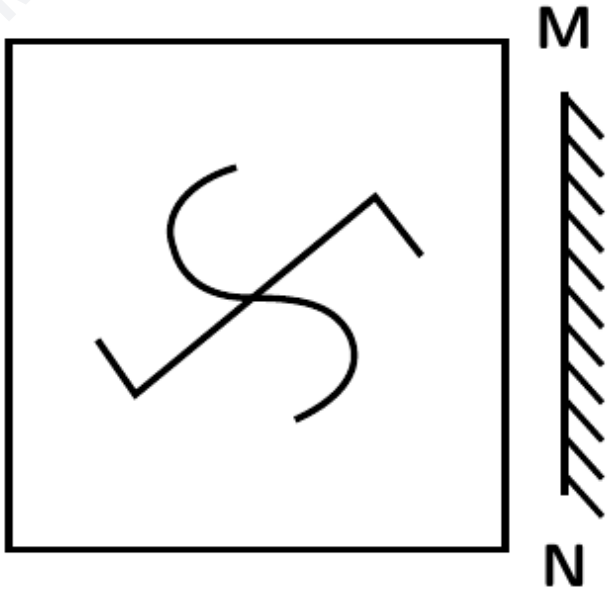
Matrix-I		Matrix-II								
	0	1	2	3	4		5	6	7	8	9
0	H	R	A	N	B	5	H	M	U	I	Q
1	W	U	N	H	L	6	X	R	N	W	P
2	E	N	S	H	O	7	C	S	Y	E	U
3	N	Y	P	O	M	8	S	N	M	M	S
4	H	M	O	F	A	9	G	B	E	R	U

(a) 23, 57, 41, 88
(b) 13, 11, 34, 69
(c) 32, 02, 11, 86
(d) 00, 99, 87, 33

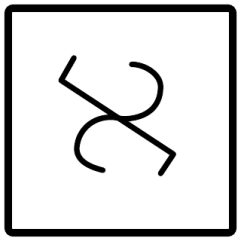
Q47. Introducing a girl a boy says, “She is the only daughter of the wife of my brother-in-law”. How is the girl related to the boy?

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

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

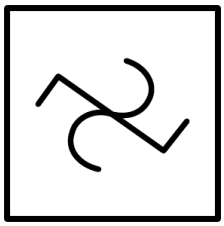


(a)

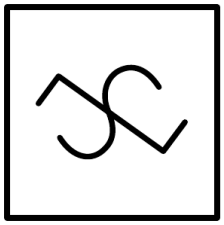


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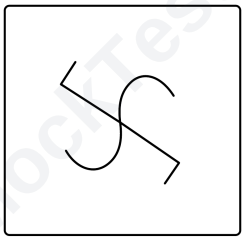
(b)



(c)



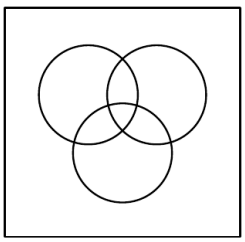
(d)



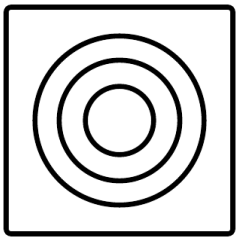
Q49. Identify the diagram that best represents the relationship among the given classes.

Ministers, Politicians, Actor

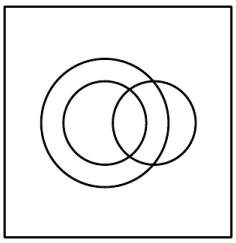
(a)



(b)

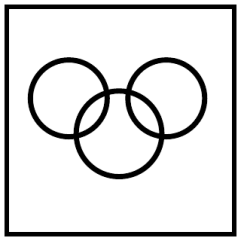


(c)

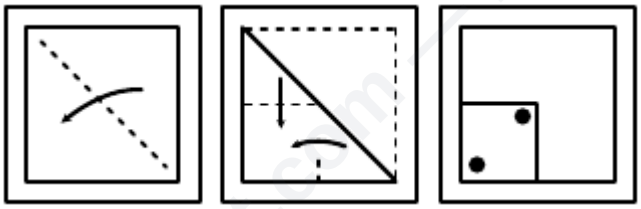


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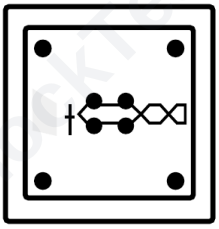
(d)



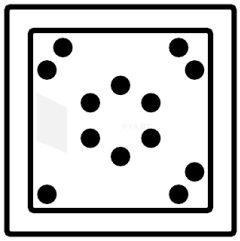
Q50. A piece of paper is folded and punched as shown below in the question figures. Form the given answer figures, indicate how it will appear when opened.



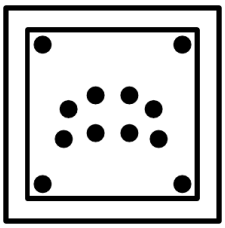
(a)



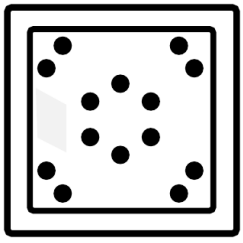
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. If 11a + 11b = 29282 find the value of (a + b)/4

(a) 661.5
(b) 663.5
(c) 665.5
(d) 667.5

Q52. If the sum of two numbers is 25 and their product is 156. Find the larger number.

(a) 11
(b) 12
(c) 13
(d) 15

Q53. If 16^(2x+6)= 64, then what is the value x^1

(a) -9/4
(b) 9/4
(c) -18/4
(d) 18/4

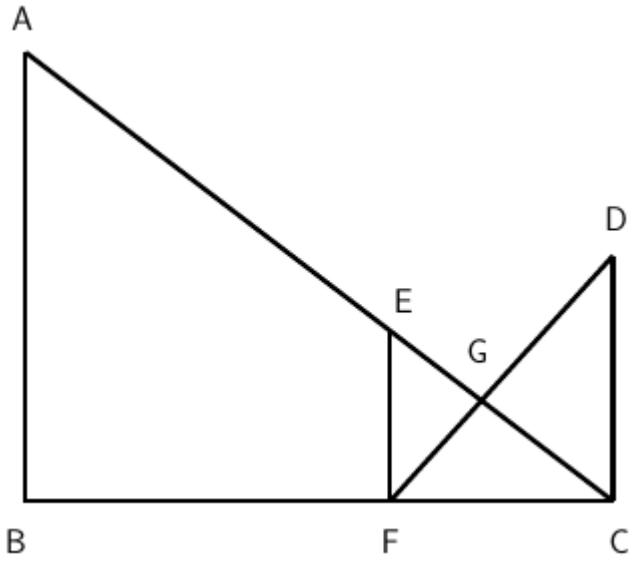
Q54. Find the value of 'x', if 8^x × 32^x = 2^(10).

(a) 1/8
(b) 10/8
(c) 20/8
(d) 30/8

Q55. The radius of the two concentric circles is 5 cm and 13 cm. The tangent to the smaller circle is the chord to the greater circle. What is the length (in cm) of that chord?

(a) 12
(b) 20
(c) 22
(d) 24

Q56. AB, EF and CD are the parallel lines as shown in the adjoining figure below. The dimension of the sides GE = 6 cm, GC = 12 cm and DC = 16 cm. Calculate the length of EF.



(a) 4
(b) 8
(c) 10
(d) 12

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Q57. If P is 50% less than Q and Q is 70% more than 640, then what is the value of P?

(a) 768
(b) 544
(c) 618
(d) 448

Q58. If x : y = y : z, then what is the value of $x^3 : y^3$?

(a) $x^2 : yz$
(b) $x^3 : y^2 z$
(c) x : z
(d) $z^2 : xy$

Q59. In an amalgam, mercury and silver are in the ratio of 3 : 7. In the second amalgam, the ratio of same elements is 1 : 9. If equal quantities of these two amalgam are mixed to form a new amalgam, then what will be the ratio of both of these elements in the new amalgam?

(a) 1 : 4
(b) 7 : 81
(c) 4 : 15
(d) 2 : 7

Q60. Average of the weight of 138 students of a school is 45 kg. If the average weight of the boys is 49 kg and the average weight of the girls is 25 kg, then what will be the respective ratio of the total weight of boys and the total weight of girls?

(a) 5 : 43
(b) 49 : 5
(c) 3 : 49
(d) 7 : 1

Q61. What is the difference (in Rs) between the compound interest (compounded annually) and simple interest for 3 years on a principal of Rs 2500 at the rate of 30% per annum?

(a) 742.5
(b) 624.5
(c) 714.5
(d) 825.25

Q62. A person sells a pen at 15% profit. If he had bought it at 7% less price and sold it for Rs. 250 more, then he would have gained 25%. What is the cost price (in Rs) of the pen?

(a) 20000
(b) 18000
(c) 25000
(d) 23000

Q63. The marked price of a chair is 75% more than its cost price. What maximum discount percentage can be offered by the shopkeeper to sell his chair at no profit or no loss?

(a) 42.85
(b) 36.58
(c) 60
(d) 52

Q64. What is the square root of the sum of first 36 odd natural numbers?

(a) 6
(b) 36
(c) 64
(d) 72

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Q65. 21 workers can repair a road in 40 days. If they are joined by 7 more workers, then in how much time (in days) the road can be repaired?

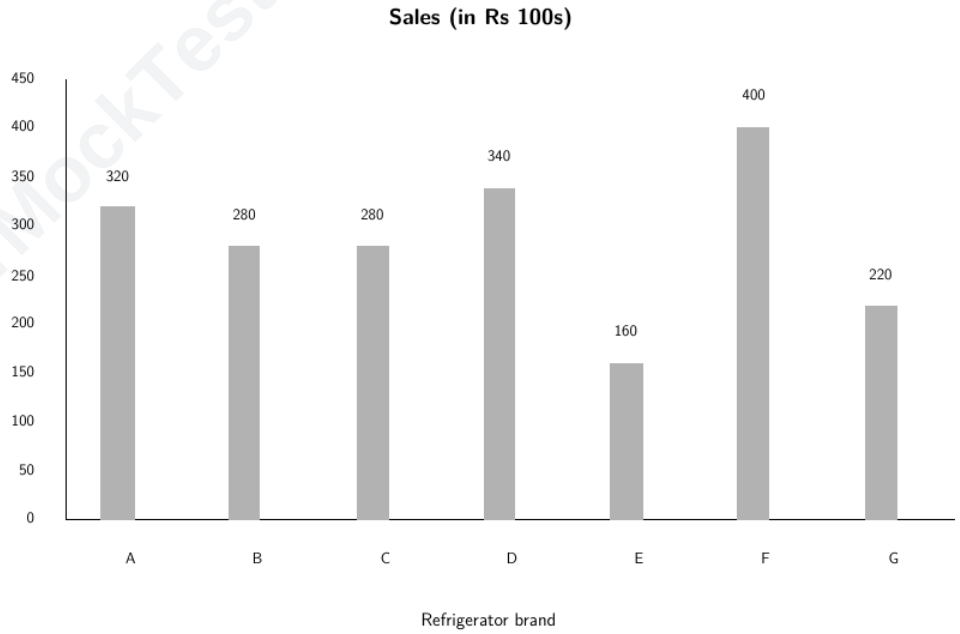
(a) 27
(b) 28
(c) 30
(d) 32

Q66. Two trains are moving towards each other with the speed of 25 km/hr and 83 km/hr respectively. What will be the distance (in metres) between the trains one second before collide?

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

Directions

The bar graph shows 1 month's sales figures for different brands of the refrigerator of a certain electronics store in Rs. 1000s. Study the diagram and answer the following questions.



Q67. Sales of which refrigerator brand were the second highest?

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

Q68. What is the ratio of sales of brand B to that of brand E?

(a) 7 : 4
(b) 4 : 7
(c) 4 : 1
(d) 1 : 4

Q69. Sales of brand F was greater than that of brand E by _____.

(a) 1.5 times
(b) 0.5 times
(c) 2.4 times
(d) 0.6 times

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Q70. If the sales figures are exclusive of tax then at the rate of 5% tax how much is the tax to be paid (in Rs) on the sales of all the 7 brands of refrigerators?

(a) 10000
(b) 1000000
(c) 100000
(d) 1000

Q71. The length of the diagonal and the breadth of a rectangle is 29 cm and 20 cm respectively. Calculate its area (in cm^2).

(a) 840
(b) 160
(c) 320
(d) 420

Q72. If the area of a semi-circle is 308 cm^2, then find its radius (in cm).

(a) 28
(b) 10
(c) 20
(d) 14

Q73. The volume of a hemisphere is 718.67 cm^3. Find its diameter (in cm).

(a) 7
(b) 28
(c) 14
(d) 21

Q74. What is the value of (sec 45°+ 1/√3) ?

(a) (2 + √3)/2√3
(b) (2 + 2√3)/√3
(c) (2 + 2√3)/3
(d) (√6 + 1)/√3

Q75. In ΔABC measure of angle B is 90°. If cos A = 8/17, and AB = 4 cm, then what is the length (in cm) of side BC?

(a) 8.5
(b) 7.5
(c) 5
(d) 6

GENERAL AWARENESS

Q76. Most of the sculptures in 'Rani ki Vav' are in devotion to _____.

(a) Shiva
(b) Ganesha
(c) Mahavira
(d) Vishnu

Q77. For the movie "Jab We Met", Kareena Kapoor won the Filmfare Award for _____

(a) Best Supporting Actress
(b) Best Female Debut
(c) Lifetime Achievement
(d) Best Actress

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Q78. Which vitamin is essential for the absorption of calcium?

(a) Vitamin E
(b) Vitamin A
(c) Vitamin D
(d) Vitamin C

Q79. Cockroaches belongs to the phylum _____.

(a) Echinodermata
(b) Arthropoda
(c) Platyhelminthes
(d) Mollusca

Q80. Chemical formula of Ozone is _____.

(a) H2O2
(b) O2
(c) O3
(d) NH3

Q81. Atomic number of which of the following elements is greater than that of Barium.

(a) Iodine
(b) Silver
(c) Bromine
(d) Gold

Q82. Commonly used abbreviation OS in computer science stands for?

(a) Operating System
(b) Operating Search
(c) Optimization System
(d) Optimization Search

Q83. Who traveled throughout South Asia to teach Jain philosophy?

(a) Siddhartha Gautama
(b) Mahavira
(c) MakkhaliGosala
(d) Chanakya

Q84. Mr. Shah is willing to spend up to Rs. 50 lakh for a German luxury car. Luckily he finds a dealer who says the price of the car is Rs. 42 lakh. Mr. Shah convinces the dealer to give him a 5% discount on the said price. Mr. Shah's consumer surplus is

(a) Rs. 8 lakh
(b) Rs. 10.1 lakh
(c) Rs. 2.1 lakh
(d) Rs. 39.9 lakh

Q85. Customs duty is an instrument of _____.

(a) Fiscal policy
(b) Monetary policy
(c) Trade policy
(d) Revenue policy

Q86. Radon is formed in the alpha decay of _____.

(a) radium
(b) uranium
(c) actinium
(d) thorium

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Q87. The circular depression containing a volcanic vent is called?

(a) Crater
(b) Smog
(c) Crust
(d) Delta

Q88. Beijing is the capital city of _____.

(a) Iraq
(b) Thailand
(c) China
(d) Russia

Q89. Taj Mahal was built in _____.

(a) 14th Century
(b) 15th Century
(c) 16th Century
(d) 17th Century

Q90. Sikh Khalsa Army was formed under the rule of _____.

(a) Sher Shah
(b) Rana Pratap
(c) Hemu Vikramaditya
(d) Ranjit Singh

Q91. Telephone was invented in which decade?

(a) 1670s
(b) 1770s
(c) 1870s
(d) 1970s

Q92. Which device is used to limit electric current in a circuit?

(a) Fuse
(b) Resistor
(c) Capacitor
(d) Both 1 and 2

Q93. If a physical quantity has the units - ampere per meter squared, then what are it's dimensions?

(a) [AL^(-2)]
(b) [IM^(-2)]
(c) [IL^(-2)]
(d) [AM^(-2)]

Q94. Who conducts oath of office to the President of India?

(a) The Prime Minister
(b) The Chief Justice
(c) Lok Sabha Speaker
(d) Rajya Sabha Chairman

Q95. The number of parliamentary seats (Rajya Sabha) of Himachal Pradesh is _____.

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

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Q96. Which sport is called the Gentleman's Game?

(a) Golf
(b) Baseball
(c) Cricket
(d) Snooker

Q97. Who is the author of "Rise of Kali: Duryodhana's Mahabharata"?

(a) Anand Neelakantan
(b) R. K. Narayan
(c) Bharath Veeraraghavan
(d) Sakshama Puri Dhariwal

Q98. Pyrrhotite is an ore/mineral of

(a) Lead
(b) Nickel
(c) Gold
(d) Tin

Q99. Which is the longest canal in the world?

(a) Panama
(b) Welland
(c) Grand Canal
(d) Corinth

Q100. In fertilisation of a flower, the fertilised central cell will develop into _____.

(a) zygote
(b) embryo
(c) endosperm
(d) sperm

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) valediction

The correct answer is- 'valediction'

Key Points

• 'Valediction' is a 'noun' and it means 'the action of saying farewell.'

• Example: He lifted his hand and spread his palm in valediction.

Here, the correct spelling is- valediction.

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Q2. Answer: (d) CAB

The correct sentence is- 'CAB'

Key Points

• Clearly, In the started sentence does not end with a preposition or determiner. so we easily eliminate options 1 & 2.

• And option 3 does not make a meaningful sentence according to the context of the question.

Hence, option 4 is the most appropriate answer here.

Q3. Answer: (d) no improvement

The correct option is- 'No improvement'

Key Points

• In the given question there is no improvement.

• Because we know that 'you' is a plural subject and it will take 'plural helping verb' with it so that 'have been' is correct here.

Hence the correct sentence is- You have been a very good girl.

Additional Information

• The given sentence is in the present perfect.

• Structure: Sub + has/have + V3 + object

• Example: Ram has gone to the market.

Q4. Answer: (b) were trekking

The correct option is- 'were trekking'

Key Points

• Using 'were trekking' in the place of 'is trekking'.

• We know that the given sentence is in the past form so we can not use it in the present continuous.

• 'We' is a plural subject here so 'were' will be used with it.

Hence the correct sentence is- There was hardly any traffic and my father told us the history of the place we were trekking to.

Additional Information

• Past continuous: The past continuous describes actions or events in a time before now, which began in the past and were still going on when another event occurred.

• Structure: Sub + was/were + V1 + ing + object

• Example: Harish was going to the market.

Q5. Answer: (c) Vulnerable

The correct option is- 'Vulnerable'

Key Points

• 'Vulnerable' is an adjective and it means 'susceptible to physical or emotional attack or harm.'

• Example: we were in a vulnerable position.

Hence the correct word is- Vulnerable

Let's find out the meaning of other options:

WORDS	MEANING
Robust*(adjective)*	strong and healthy; vigorous.
Tenacious*(adjective)*	tending to keep a firm hold of something; clinging or adhering closely.
Stout*(adjective)*	a person rather fat or of heavy build.

Q6. Answer: (a) Mausoleum

The correct answer is- 'Mausoleum'

Key Points

• 'Mausoleum' is a noun and it means 'a stately or impressive building housing a tomb or group of tombs.

• Example: The cathedral was built in 1517 as a royal mausoleum.

Hence the correct word is- Mausoleum

Let's find out the meaning of the other options:

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WORDS	MEANING
Shanty*(noun)*	a small, crudely built shack.
Hovel*(noun)*	a small squalid or simply constructed dwelling.
Tepee*(noun)*	a portable conical tent made of skins, cloth, or canvas on a frame of poles, used by North American Indians of the Plains and Great Lakes regions.

Q7. Answer: (b) Make every effort to achieve something, especially to be fair or helpful.

The correct answer is- 'Make every effort to achieve something, especially to be fair or helpful.'

Key Points

• 'Bend over backwards' is an idiom and it means 'make every effort to achieve something, especially to be fair or helpful.'

• Example: We have bent over backwards to ensure a fair trial for the defendants.

Hence the option 2 is giving the correct meaning of the given idiom Bend over backwards

Q8. Answer: (a) Someone who seems unfriendly and who does not share his feelings.

The correct answer is- 'Someone who seems unfriendly and who does not share his feelings.'

Key Points

• 'A cold fish' is an idiom and it means 'someone who seems unfriendly and who does not share their feelings'

• Example: The manager decided not to hire Bill as the store greeter because he came across like a cold fish during the interview.

Hence the option 1 gives the correct meaning of the idiom cold fish.

Q9. Answer: (d) no

The correct answer is- 'no'

Key Points

• On looking at the above passage, we observe that it is based upon how art and literature are being suppressed by social media now a days. But, the author does not deny the positive effects of social media but also contradicts by saying that such great people had emerged only by selecting them in personal.

• Here, determine 'no' should be used. Because, the conjunction 'neither....nor' is used together.

• So that options 2 & 3 are eliminated and the pronoun 'none' is not directly used with a noun, it is used either as 'none of' or with an article.

Hence, option 4 is the most appropriate answer here.

Q10. Answer: (a) Creativity

The correct answer is- 'Creativity'

Key Points

• Since the sentence starts with a subject. So, it should probably be a noun or pronoun.

• So that creativity goes well with the blank since the passage is based on the impact of social media on the creativity of a person.

Hence option 1 is the most appropriate answer here

Q11. Answer: (b) and

The correct answer is- 'and'

Key Points

• Using 'and' in the blank space to make the sentence meaningful.

• If we use the preposition 'for', then it should be followed by a noun/pronoun. But, 'die' is a verb so we can say option 3 is incorrect. Here, conjunction should be placed in a blank.

• Since 'neither.....nor' is used in pair, but no such pair is indicated in the context, hence, options 1 & 4 are eliminated.

Thus, option 2 is the most appropriate answer here.

Q12. Answer: (d) music

The correct answer is- 'music'

Key Points

• Here 'art' and 'literature' are nouns. So, to go along with them, 'music' should be used.

Hence option 4 is the most appropriate answer here.

Q13. Answer: (c) may

The correct answer is- 'may'

Key Points

• Conjunctions are used to connect nouns, pronouns, verbs, etc. But, here no such connection is shown in the sentence. Thus, use modal verb 'may'.

Hence option 3 is the most appropriate answer here.

Q14. Answer: (a) Accommodate

The correct answer is- 'Accommodate'

Key Points

• 'Accommodate' is a 'verb' and it means '(of a building or other area) provide lodging or sufficient space for.'

• Example: the cottages accommodate up to six people.

Hence the correct spelling is- Accommodate.

Additional Information

• Always remember 'Accommodate' consists two 'c' and two 'm'.

Q15. Answer: (d) She asked if it was snowing.

The correct answer is- 'She asked if it was snowing.'

Key Points

• The sentence is in DIrect speech and it is an interrogative statement.

• When converting in Indirect speech, it becomes an assertive statement.

• When we convert from direct to indirect speech, we make the following changes:

• Quotation marks are omitted and the sentence ends with a full stop.

• The tense of the verb, in the reported speech involving an order, request, and instruction does not undergo any change during the conversion from direct to indirect mode. This is also true if the statement is a universal truth.

• If the reporting verb is in the present tense, it does not undergo any change.

• When the reporting or principal verb is in the present tense, all present tenses of the direct are changed into the corresponding past tenses.

• Words expressing nearness in time or place are generally converted into words expressing distance. For eg. now becomes then, today becomes that day, yesterday becomes the previous day, this becomes that, etc.

• In reporting commands and requests, the verb expressing command or request is added and the imperative is changed into the infinitive.

• In reporting questions the verbs like asked inquired are added

• If the question in inverted commas starts with a helping verb, then conjunction if/whether is used.

• In reporting exclamations and wishes, the verbs expressing exclamation or wish are added.

• When we convert a sentence from the direct to the indirect mode(especially for a sentence ending with a mark of interrogation), we reverse the subject-verb placement. In direct sentences, we have the verb before the subject; while in indirect, the verb follows the subject.

Following the rules, the correct sentence that we get is- She asked if it was snowing.

Q16. Answer: (b) Pizza was eaten ravenously by him.

The correct answer is- 'Pizza was eaten ravenously by him.'

Key Points

• In the given question the sentence 'He ate pizza ravenously.' is in 'Active voice' which is in the past indefinite and we know that after converted this sentence into 'Passive voice' the tense will same which also should in past indefinite.

• Past indefinite:

• Sub + V2 + object (Active)

• Object + was/were + V3 + by + subject (Passive)

• Example:

• Reema cleaned the floor (Active)

• The floor was cleaned by Reema (Passive)

Hence the correct answer is- Pizza was eaten ravenously by him.

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Q17. Answer: (d) QRP

The correct answer is- 'QRP'

Key Points

• In the started sentence which is ended with the preposition 'of' so it will take the objective case after it so that the noun will come and which is mentioned in the 'Q'.

• According to the sense of the paragraph after 'Q', 'R' will come, and then 'P'.

Hence option 4 is the most appropriate answer here.

Q18. Answer: (b) Ignorant

The correct answer is- 'Ignorant'

Key Points

• 'Scholarly' is an adjective and it means 'involving or relating to serious academic study' and the opposite word of 'Scholarly' is 'Ignorant'.

• Example: He was told constantly that he was ignorant and stupid.

Hence the correct opposite word is Ignorant.

WORDS	MEANING
Learned*(adjective)*	(of a person) having acquired much knowledge through study.
Cultured*(adjective)*	characterized by refined taste and manners and good education.
Trained*(adjective)*	having been taught a particular skill or type of behavior through practice and instruction over a period of time.

Q19. Answer: (d) Comprehensible

The correct answer is- 'Comprehensible'

Key Points

• 'Baffling' is an adjective and it means 'impossible to understand; perplexing' so the opposite word of 'Baffling' is 'Comprehensible'.

• Example: The crime is a baffling mystery for the police.

Hence the correct opposite word is Comprehensible.

WORDS	MEANING
Puzzling*(adjective)*	causing one to be puzzled; perplexing.
Unclear*(adjective)*	not easy to see, hear, or understand.
Mystifying*(adjective)*	utterly bewildering or perplexing.

Q20. Answer: (a) Huge

The solution is in Hindi. Read it online.

Q21. Answer: (a) Empty

The correct answer is- 'Empty'

Key Points

• 'Devoid' is an adjective and it means 'entirely lacking or free from.' so that the similar word of 'Devoid' is 'Empty'.

• Example: Lisa kept her voice devoid of emotion.

Hence the correct similar word is Empty.

WORDS	MEANING
Complete	having all the necessary or appropriate parts.
Sufficient	enough; adequate.
Happy	feeling or showing pleasure or contentment.

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Q22. Answer: (d) Manifestation

The correct answer is- 'manifestation'

Key Points

• Using 'Manifestation' in the blank space of the given question.

• 'Manifestation' is a noun and it means 'an event, action, or object that clearly shows or embodies something, especially a theory or an abstract idea'.

• Example: the first obvious manifestations of global warming

• The words given in the other options do not fulfill the meaning of the sentence according to the context of the question.

Hence option 4 is the most suitable option here.

WORDS	MEANING
Innovation	the action or process of innovating.
Temptation	the desire to do something, especially something wrong or unwise.
Invention	the action of inventing something, typically a process or device.

Q23. Answer: (d) at

The correct answer is- 'at'

Key Points

• Prepositions of direction indicate the location of a noun (a person, place, or thing) in relation to another noun.

• Prepositions precede a noun or a pronoun and often accompany verbs of motion.

• The verb mad can be followed by different prepositions depending on the meaning.

• Mad at means angry with someone or something.

• Mad for means crazy about someone or something.

• Mad towards means having a hostile attitude towards someone or something.

• Mad to means foolish or insane to do something.

• In this sentence, the meaning is that everyone is angry with each other, so the appropriate preposition is at.

Additional Information

The other options are incorrect because:

Option 1 uses to, which implies movement or direction towards a destination or goal. It does not fit with the verb mad.

Option 2 uses for, which implies a reason, purpose, or preference. It does not fit with the verb mad.

Option 3 uses towards, which implies a hostile attitude or intention. It does not fit with the verb mad.

Q24. Answer: (c) 3

The correct answer is- 'error lies in the part-3'

Key Points

• Using 'years' in place of 'year' to make the sentence correct.

• 70 is a plural number here and after it, we need a plural noun so change 'year' into 'years'.

Hence the correct sentence is- The British Council has brought the Museum of the Moon to India to mark the last phase of the UK-India Year of Culture and 70 years of the British Council in India.

Q25. Answer: (a) 1

The correct answer is- 'error lies in the part-1'

Key Points

• Using 'rang' in place of 'rung' makes the sentence correct.

• Structure: 'simple past + while + past continuous' or '- While + past continuous + simple past'- to indicate that a longer action in the past was interrupted by shorter action.

• Example: Someone stole his car While Punit was sleeping last night

• Ring(1st form), Rang(2nd form), and Rung(3rd form) (These are the three forms of 'Ring')

Hence the correct sentence is- The bell rang while I was brushing my teeth.

Q26. Answer: (c) Neither 1 nor 2 follows

Statement I: Medicines today have become an integral part of everyone’s life.

Statement II. People undergo medicinal treatment at any age.

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Conclusion I:

Lifestyle has made us easy going and less caring for health → It does not follow from any of the given statements.

Conclusion II:

Medicines have become a compulsory part of one's life → 'Integral' does not mean 'compulsory', hence conclusion 2 does not follow.

Hence neither of the conclusions follow.

Q27. Answer: (c) Blood

People with 'Rickets' have weak and soft 'bones'. Similarly, 'Thalassemia' is a 'blood' disorder.

Hence, the answer is 'blood'.

Q28. Answer: (d) 43

The logic followed here is:

The positional values of the alphabets are added together to get the numeric value.

Positional value of F is 6 and that of G is 7.

Therefore, 6 + 7 = 13

Similarly,

Positional value of U is 21 and that of V is 22.

Therefore, 21 + 22 = 43

Hence, answer is '43'.

Q29. Answer: (a) Light pen

The logic here is as follows:

1) Light pen → It's an input device.

2) Monitor → It's an output device.

3) Printer → It's an output device

4) Speaker → It's an output device

Except 'Light Pen' all other are output devices.

Hence, the correct answer is "Light Pen".

Q30. Answer: (b) 17

The logic followed here is:

543 : 12 → 5 + 4 + 3 = 12

Similarly,

764 → 7 + 6 + 4 = 17

Hence, the correct answer is "17".

Q31. Answer: (d) KN

Here the pattern of relation followed is:

1) PT → P + 4 = T

2) DH → D + 4 = H

3) VZ → V + 4 = Z

4) KN → K + 3 = N

Hence, the correct answer is "KN".

Q32. Answer: (a) 190

The pattern/logic/rule followed here is:

Except '190' all other numbers are prime number.

Hence, the correct answer is "190".

Q33. Answer: (d) 487

The pattern/logic/rule followed here is:

2^(nd) number is the resultant of sum of 1^(st) and 3^(rd) number.

But, in 487 → 7 + 4 = 11 ≠ 8

Hence, '487' is the odd one out.

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Q34. Answer: (d) Hexagon

Triangle, Square, and Pentagon belong to the polygon series.

Triangle is a three-sided figure, a Square is a four-sided figure, and Pentagon is a five-sided figure.

Thus, the next figure must be a six-sided figure and it will be a hexagon.

Hence, the correct answer is ‘Hexagon’.

Important Points Number of Sides of polygons and their name:

Polygon	Number of Sides	Figure
Triangle	3	
Square	4	
Pentagon	5	
Hexagon	6	
Heptagon	7	
Octagon	8	
Nonagon	9	
Decagon	10	

Q35. Answer: (c) 100

The pattern/logic/rule followed here is:

Each term is divided by 2 to get the next term.

Thus,

Thus the missing term is 100.

Hence, the correct answer is, "100".

Q36. Answer: (d) 340

The pattern/logic/rule followed here is:

Consecutive multiples of 30 are added to get the next term.

Hence, the correct answer is "340".

Q37. Answer: (c) MON

The positional value of the alphabet are shown in the table below,

The pattern/logic/rule followed here is:

Each letter of the term is shifted forward by 3 places to get the next term.

Hence, the correct answer is ‘MON’.

Q38. Answer: (d) XY

The pattern/logic/rule followed here is:

I + 4 = M; M + 5 = R; R + 6 = X

J + 4 = N; N + 5 = S; S + 6 = Y

Hence, the correct answer is "XY".

Q39. Answer: (a) Monday

Given:

Tenth day of a month having 30 days is Tuesday → 10^(th) is Tuesday

10^(th) + 7^(th) → 17^(th) is Tuesday

17^(th) + 7^(th) → 24^(th) is Tuesday

25^(th)→ Wednesday

26^(th) → Thursday

27^(th) → Friday

28^(th) → Saturday

29^(th) → Sunday

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30^(th) → Monday

Hence, the correct answer is "Monday".

Q40. Answer: (d) i, iii, iv, ii

The dictionary order is as follows:

i. Derogate

iii. Dictate

iv. Dictionary

ii. Dictum

Hence, the correct answer is "i, iii, iv, ii".

Q41. Answer: (a) ECTTPRO

The logic here is as follows:

INTERVIEW → VIEWRINTE

Similarly,

PROTECT → ECTTPRO

Hence, the correct answer is "ECTTPRO".

Q42. Answer: (c) 35

The logic followed here is:

Logic = (First number in the row - Second number in the row = Third number)

1^(st) row: 54 – 9 = 45

2^(nd) row: 61 – 12 = 49

Similarly,

3^(rd)row: 45 – 10 = 35

Hence, the correct answer is "35".

Q43. Answer: (c) 478

Alphabet	A	C	D	B
Meaning	•	÷	×	•

Given equation: 192 C 2 D 5 B 8 A 6 = ?

On replacing the alphabets with the symbols and solving it with bodmas rule:

192 ÷ 2 × 5 - 8 + 6 = ?

→ 96 × 5 - 8 + 6

→ 480 + 6 - 8

→ 478

Hence, answer is "478".

Q44. Answer: (b) ybxc

Given: x_za_c_yzab_

Let's divide the above pattern in 4 groups each consisting of 3 alphabets.

x_z / a_c/ _yz/ ab_

Clearly,

x_z → y will complete the series to form 'xyz'

a_c → b will complete the series to form 'abc'

_yz → x will complete the series to form 'xyz'

ab_ → c will complete the series to form 'abc'

Hence, answer is 'ybxc'.

Q45. Answer: (c) North-west

The direction is as follows:

Hence, the correct answer is "North-West".

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Q46. Answer: (b) 13, 11, 34, 69

By checking solving all the options:

1) 23, 57, 41, 88 → H, U, M, M

2) 13, 11, 34, 69 → H, U, M, P

3) 32, 02, 11, 86 → P, A, U, N

4) 00, 99, 87, 33 → H, U, M, O

Hence, the correct answer is "13, 11, 34, 69".

Q47. Answer: (d) Niece

Table showing the different symbols used to represent the relation and generation change.

She is the only daughter of the wife of my brother-in-law → Wife of the person's brother-in-law is the sister of the person itself. The daughter of the person's sister is the 'niece' of the person.

Hence, the correct answer is 'niece'.

Q48. Answer: (b) [figure]

The mirror image of the object when the mirror is placed on the right side of the object is shown below,

Hence, the correct answer is "option 2".

Q49. Answer: (c) [figure]

The following Venn Diagram is as follows:

Ministers, Politicians, Actor → A minister is a politician and an actor can be a politician too.

Hence, the correct answer is "Option 3".

Q50. Answer: (a) [figure]

The figure is as follows:

Hence, the correct answer is " Option 1".

Q51. Answer: (c) 665.5

Given:

=> 11a + 11b = 29282

Calculation:

=> 11(a + b) = 29282

=> a + b = 29282/11

=> a + b = 2662

(a + b)/4 = 2662/4

= 665.5

Therefore (a + b)/4 = 665.5

Q52. Answer: (c) 13

Calculation:

Let the larger number be 'x'

Smaller number = 25 - x

Product = x(25 - x) = 156

=> $25x - x^2 = 156$

=> $x^2 - 25x + 156 = 0$

=> $x^2 - 12x - 13x + 156 = 0$

=> x (x - 12) - 13(x - 12) = 0

=> (x - 12)(x - 13) = 0

=> x = 12, 13

Smaller number = 25 - x = 13, 12

Because x is the larger number

Therefore The larger number = 13

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Q53. Answer: (a) -9/4

Given:

=> 162x+6 = 64

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:

=> 162x+6 = 64

=> 162x+6 = 64

=> (4²)^(2x+6)= (4)³

=> (4)^(4x + 12) = (4)³

=> 4x + 12 = 3

=> 4x = -9

=> x = -9/4

Therefore x¹ = -9/4

Q54. Answer: (b) 10/8

Given:

=> 8x × 32x = 210

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:

=> (2³)^x × (2^5)^x = 2^(10)

=> 2^(3x + 5x)= 2^(10)

=> 2^(8x) = 2^(10)

=> 8x = 10

Therefore x = 10/8

Q55. Answer: (d) 24

Calculation:

Let the radius of the outer and inner circle be ‘R’ cm and ‘r’ cm respectively

The given circles can be drawn as,

Where ABC is the tangent to the inner circle

Applying Pythagoras' theorem to ΔOBC,

=> R² - r² = BC²

=> BC = √(13² - 5²) = 12 cm

Therefore Length of chord = 2 × 12 = 24 cm

Q56. Answer: (b) 8

Calculation:

As we know, the ratio of the corresponding sides of similar triangles is equal

Considering similar triangles ΔEGF and ΔCGD, we can write,

=> GE/GC = EF/DC

Substituting values,

=> 6/12 = EF/16

=> EF = 16/2 = 8 cm

Q57. Answer: (b) 544

Calculation:

Because Q is 70% more than 640

=> Q = (100 + 70)% of 640 = 170% of 640

=> Q = 1.7 × 640 = 1088

Because P is 50% less than Q

=> P = (100 - 50)% of Q

=> P = 50% of 1088

=> P = 0.5 × 1088

Therefore P = 544

Q58. Answer: (a) $x^2 : yz$

Given:

=> x : y = y : z

Calculation:

=> $y^2 = xz$

=> $y^3 = xyz$

Therefore $x^3 : y^3 = x^3 : xyz = x^2 : yz$

Q59. Answer: (a) 1 : 4

Calculation:

Let the quantity of amalgams mixed be ‘x’ units

Quantity of mercury in first amalgam = (3/10)x

Quantity of mercury in second amalgam = (1/10)x

Quantity of mercury in new amalgam = 3x/10 + x/10 = 4x/10 = 2x/5

Similarly,

Quantity of silver in first amalgam = (7/10)x

Quantity of silver in second amalgam = (9/10)x

Quantity of silver in new amalgam = 7x/10 + 9x/10 = 16x/10 = 8x/5

Therefore Ratio of new amalgam = (2x/5) : (8x/5) = 1 : 4

Q60. Answer: (b) 49 : 5

Given:

The average weight of 138 students = 45 kg

The average weight of boys = 49 kg

The average weight of girls = 25 kg

Formula used:

Average weight = Total weight/Total number of people

Calculation:

Let the number of boys in the school be ‘x’

Number of girls = (138 - x)

Now, Total weight of students = Total weight of boys + Total weight of girls

=> 138 × 45 = 49x + 25(138 - x)

=> 6210 = 49x + 3450 - 25x

=> 2760 = 24x

=> x = 115

Hence,

Total weight of boys = 49x = 49 × 115 = 5635 kg

Total weight of girls = 25(138 - x) = 25 × 23 = 575 kg

Therefore The ratio of the total weight of boys and girls = 5635 : 575

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= 49 : 5

Q61. Answer: (a) 742.5

Given:

Principal = Rs. 2500, Rate = 30%, Time = 3 years

When the interest is compounded annually,

Formula used:

Compound interest = Principal × [(1 + Rate/100)^(Time) - 1]

Calculation:

=> Compound interest = 2500 × [(1 + 30/100)³ - 1] = 2500 × 1.197 = Rs. 2992.5

Simple interest = (Principal × Rate × Time)/100

=> Simple interest = (2500 × 30 × 3)/100 = Rs. 2250

Therefore Required difference = 2992.5 - 2250 = Rs. 742.5

Q62. Answer: (a) 20000

Calculation:

Let the cost price of the pen be Rs. 'x'

Selling price = Cost price + Profit = x + 15% of x = 1.15x

If the pen is bought at 7% less price and sold at Rs. 250 more, profit = 25%

=> New cost price = x - 7% 0f x = 0.93x

=> New selling price = 1.15x + 250

=> Profit earned = 25% of 0.93x = 0.2325x

Because Selling price = Cost price + Profit

=> 1.15x + 250 = 0.93x + 0.2325x

=> 0.93x + 0.2325x - 1.15x = 250

=> 0.0125x = 250

=> x = 250/0.0125 = Rs. 20000

Therefore The cost price of the pen is Rs. 20000

Q63. Answer: (a) 42.85

Calculation:

Let the cost price of the chair be Rs. 'x' and the maximum discount that can be offered be 'd%'

Marked price = (100 + 75)% of x = 175% of x = 1.75x

Selling price = Marked price - discount = (100 - d)% of 1.75x

To sell the chair at no profit no loss,

Selling price = Cost price = x

=> (100 - d)/100 × 1.75x = x

=> 100 - d = 100/1.75

=> 100 - d = 57.15

=> d = 100 - 57.15 = 42.85%

Therefore A maximum discount of 42.85% can be offered

Q64. Answer: (b) 36

Calculation:

The given series is an A.P. with n = 36 terms

First term = a = 1

Difference = d = 2

Last term = 36^(th) term = a + 35d = 1 + 35(2) = 71

Because Sum of n terms of A.P. = n/2 × (first term + last term)

=> Sum of given series = (36/2) × (1 + 71) = 18 × 72 = 1296

Therefore Required square root = √1296 = 36

Q65. Answer: (c) 30

Calculation:

21 workers 40 days work = 1

21 workers 1-day work = 1/40

1 worker 1 day work = (1/40) × (1/21)

When 7 more workers joined, no. of workers = 21 + 7 = 28

Hence,

28 workers 1 day work = (1/40) × (1/21) × 28 = 1/30

Therefore The work will be done in 30 days

Q66. Answer: (c) 30

Calculation:

When two trains are moving toward each other,

Their relative speed = 25 + 83 = 108 km/hr = 108 × 5/18 = 30 m/sec.

This means that the trains cover a distance of 30 m in 1 second

Therefore The distance between the trains 1 second before the collision is 30 m

Q67. Answer: (b) D

Calculation:

It can be seen from the given graph that the refrigerator brand D has the second highest sale of Rs. 340 thousands

Q68. Answer: (a) 7 : 4

Calculation:

Sale of brand B = Rs. 280 thousands

Sale of brand E = Rs. 160 thousands

Therefore Required ratio = 280 : 160 = 7 : 4

Q69. Answer: (a) 1.5 times

Calculation:

Sale of brand F = Rs. 400 thousand

Sale of brand E = Rs. 160 thousand

Difference in sales = 400 - 160 = Rs. 240 thousand

Therefore Sales of brand F was greater than that of brand E by 240/160 = 1.5 times

Q70. Answer: (c) 100000

Calculation:

Sales of all 7 brands of refrigerators = 320 + 280 + 280 + 340 + 160 + 400 + 220

= Rs. 2000 thousands

Tax to be paid = 5% of 2000 × 1000

= Rs. 100000

Therefore Tax to be paid Rs. 100000.

Q71. Answer: (d) 420

Calculation:

Applying Pythagoras to a rectangle, we get,

=> $(\text{Diagonal})^2 = (\text{Length})^2 + (\text{Breadth})^2$

Substituting values,

=> $(29)^2 = (\text{Length})^2 + (20)^2$

=> $(\text{Length})^2 = 841 - 400 = 441$

=> Length = $\sqrt{441} = 21$ cm

Area of rectangle = length × breadth = 21 × 20

= 420 cm2

Therefore Area of rectangle is 420 cm2.

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Q72. Answer: (d) 14

Given:

area = 308 cm2

Formula used:

Area of a semi-circle with radius 'r' = $\pi r^2/2$

Calculation:

=> $r^2 = 308 \times 2 \times (7/22)$

=> $r^2 = 196$

=> $r = \sqrt{196} = 14$ cm

Therefore Radius of semi-circle = 14 cm

Q73. Answer: (c) 14

Given:

the volume of the hemisphere = 718.67 cm3

Formula used:

The volume of a hemisphere with radius 'r' = $(2/3)\pi r^3$

Calculation:

=> $(2/3)\pi r^3 = 718.67$

=> $r^3 = 718.67 \times (3/2) \times (7/22)$

=> $r^3 = 343$ (approx)

=> $r = \sqrt[3]{343} = 7$ cm

Therefore Diameter of hemisphere = 2 × 7 = 14 cm

Q74. Answer: (d) (√6 + 1)/√3

Calculation:

sec 45° + 1/√3

= 1/cos 45° + 1/√3 [Because cos 45° = 1/√2]

= √2 + 1/√3

= (√6 + 1)√3

Q75. Answer: (b) 7.5

Calculation:

In the given ΔABC,

cos A = adjacent/hypotenuse = AB/AC = 8/17

Given, AB = 4 cm

=> 4/AC = 8/17

=> AC = 17/2 = 8.5 cm

Now, sin A = $\sqrt{(1 - \cos^2 A)} = \sqrt{(1 - 64/289)} = \sqrt{(225/289)} = 15/17$

But, sin A = opposite/hypotenuse = BC/AC

=> BC/8.5 = 15/17

Therefore BC = 15/2 = 7.5 cm

Q76. Answer: (d) Vishnu

• Rani ki Vav is an intricately constructed stepwell situated in the town of Patan in Gujarat, India.

• It is located on the banks of Saraswati River.

• Rani ki vav was built as a memorial to an 11th-century king Bhima.

• Most of the sculptures are in devotion to Vishnu, in the forms of Dus-Avatars Kalki, Rama, Krishna, Narsinh, Vaman, Varahi and others representing their return to the world.

Q77. Answer: (d) Best Actress

The correct answer is Best Actress.

Key Points

• In 2007, Kareena Kapoor received several awards for her performance in the romantic comedy Jab We Met (including her first Best Actress Filmfare Award).

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In News

• Filmfare 2022:
• 67th Filmfare Awards were given to Hindi language films.
• Wolf777news was the title sponsor of the 67th Filmfare Awards ceremony.
• It was presented by The Times Group.
• The 67th Filmfare Awards were given out on 30 August 2022 at Jio World Centre, Mumbai.
• The 67th edition of the awards honoured the films released in 2021.
• It honoured the best Indian Hindi-language films of 2021.
• Best Film: Shershaah (Dharma Productions)
• Best Director: Vishnuvardhan (Shershaah)
• Best Actor: Ranveer Singh (83) as Kapil Dev
• Best Actress: Kriti Sanon, Mimi as Mimi Rathore
• Best Supporting Actor: Pankaj Tripathi (Mimi)
• Best Supporting Actress: Sai Tamhankar (Mimi)
• Best Editing: A. Sreekar Prasad (Shershaah)
• Best Production Design: Mansi Dhruv Mehta and Dmitrii Malich (Sardar Udham)
• Best Choreography: Vijay Ganguly – “Chaka Chak” (Atrangi Re)
• Best Cinematography: Avik Mukhopadhyay (Sardar Udham)
• Best Sound Design: Dipankar Chaki, Nihar Ranjan Samal (Sardar Udham)
• Best Background Score: Shantanu Moitra (Sardar Udham)
• Best Costume Design: Veera Kapur EE (Sardar Udham)
• Best Action: Stefan Richter, Sunil Rodrigues (Shershaah)
• Best Special Effects: VFXwaala, Edit FX Studios (Sardar Udham)

Q78. Answer: (c) Vitamin D

The correct answer is Vitamin D

Key Points

• Vitamin D is essential in helping the body absorb and use calcium.
• Vitamin D comes from two sources. It is made in the skin through direct exposure to sunlight, and it comes from the diet.
• Exercise also helps the body absorb calcium.

Additional Information

Vitamin E:

• Chemical name - Tocopherol
• Daily requirement - 10 to 15 mg
• Principal functions:

1. This vitamin is known as an antioxidant vitamin’.
2. Takes part of the body's immune mechanism.

• Effects of deficiency:

1. Vitamin E plays a major role in the reproductive system and that's why it is known as an ‘Anti-infertility’ vitamin.
2. A deficiency of this causes infertility.

• Main source: All vegetable oils, eggs, and milk.

Vitamin A:

• Chemical Name - Retinol
• Daily requirement - 1000 mg
• Main function - It synthesizes ‘Rhodopsin’ pigment inside the rod cells in the eye, which is required for dark vision.
• Other functions - Helps in defense mechanisms, body and bones development, skin, teeth, keeping eyes healthy, etc.

Vitamin C:

• Chemical Name - Ascorbic Acid
• Daily Requirement - 200 mg
• Principal functions:

1. This is necessary for the coagulation of blood and also helps to fight diseases. Hence statement 2 is Correct.
2. This vitamin is necessary for the production of a protein named ‘collagen’ present in the skin which is responsible for lustrous

and smoother skin. That's why this is known as an ‘Anti-aging vitamin’.

3. This also brings out the degradation of cholesterol into bile acids.

4. This controls the number of Red blood corpuscles(RBC) in blood.

• Effects of deficiency:

1. The disease is named ‘Scurvy’ In which bleeding from gums is seen.

2. Formation of kidney stones.

3. Reduction in the amount of calcium from bones.

4. Reduction in the amount of vitamin B12.

Q79. Answer: (b) Arthropoda

The Correct is Arthropoda.

Key Points

• Most insects like ants, cockroaches, mosquitoes, crabs, spiders, scorpions, sea spiders and mites, etc., fall under the phylum Arthropoda.

• Snail, Octopus (Devilfish), and sepia (cuttlefish) are examples of Mollusca which is the second-largest phylum after Arthropoda.

Important Points

Phylum Arthropoda is the largest phylum in the animal kingdom.

• Arthropods have jointed limbs.

• Their body is segmented into three regions - Head, Thorax, and Abdomen

Some important characteristics of this phylum are:

• Segmented bodies.

• Joined appendages.

• Open circulatory system.

• They make up about 80 percent of the known species of animals.

Additional Information

Echinodermata:

• It consists of marine animals.

• It is spiny-bodied.

• It has a water vascular system.

• It helps in locomotion and provides food.

• Starfish is an example.

Mollusca:

• It is marine animals.

• Its body is covered by a shell.

• It has a radula that is used for feeding.

• Its body has a mantle cavity.

• Chiton is an example.

Platyhelminthes:

• Platy means flat and Helmithes means worms.

• They are basically Flatworms.

• They are triploblastic in nature.

• They live on land or in fresh water.

• They have only one opening in the Alimentary canal.

• The anus is absent.

• They excrete through Flame cells.

• Eg: Taenia, Planaria.

Q80. Answer: (c) O3

The correct answer is O3.

Key Points

Ozone Layer:

• Ozone (O3) is a molecule formed by three atoms of oxygen. Ozone is a deadly poison.

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• Ozone is found in the stratosphere layer of the atmosphere.

• However, at higher levels of the atmosphere, ozone performs an essential function. It shields the surface of the earth from ultraviolet (UV) radiation from the Sun.

• This radiation is highly damaging to organisms, for example, it is known to cause skin cancer in human beings or can split DNA.

• It is a pale blue gas with a distinctively pungent smell.

• Ozone is an excellent oxidizing agent as it breaks down into oxygen gas and nascent oxygen. { $O_3 \rightarrow O_2 + [O]$ }

• It is an allotrope of oxygen that is much less stable than the diatomic allotrope O_2, breaking down in the lower atmosphere to O_2 or di-oxygen

Its depletion:

• The amount of ozone in the atmosphere began to drop sharply in the 1980s.

• This decrease has been linked to synthetic chemicals like chlorofluorocarbons (CFCs) which are used as refrigerants and in fire extinguishers.

• The government bans those products which contain CFCs.

• Ozone is thermodynamically unstable and decomposes to molecular oxygen. Thus, a dynamic equilibrium exists between the production and decomposition of ozone molecules

Q82. Answer: (a) Operating System

The correct answer is operating system

Key Points

• Operating System (OS):-

• An operating system (OS) is system software that manages computer hardware and software resources and provides common services for computer programs.

• For hardware functions such as input and output and memory allocation, the operating system acts as an intermediary between programs and computer hardware.

• There are different types of OS

• Batch OS

• Multiprogramming

• Multitasking

• Multiprocessing

• Real-time

Additional Information

• Optimization System:-

• The activity of enhancing system capabilities and integration of subsystem elements to the extent that all components operate at or above user expectations

Q83. Answer: (b) Mahavira

Mahavira travelled throughout South Asia to teach Jain Philosophy

• He was born in 540 BC in a village Kundgrama near Vaishali in Bihar.

• He was the 24th Tirthanka and also known as Vardhaman

• At the age of 42, under a Sal tree Jambhikagrama on the bank of river Rijupalika attained Kaivalya (supreme knowledge)

• He had the Titles like Kevalin, Jina or Jitendriya, Nrigrantha,Arhant and Mahavira.

• He delivered his 1st sermon at Pava to his 11 disciples (11 Gandharas/Gandharvas) ,Later he founded Jain sangha at Pava.

Pancha Mahavaratas (five vows of Jainism)

• 1.Ahimsa, 2. Satya, 3. Asteya (Non- stealing), 4. Aparigraha (Non- possession) laid by parshwanath and 5. Brahmacharya was laid down by Mahavira.

• At the age of 72 in 468 BC, he passed away at Pavapuri near Biharsharif in Bihar.

Q84. Answer: (b) Rs. 10.1 lakh

The correct answer is Rs. 10.1 Lakh.

Key Points

• Consumer surplus:-

• It s an economic measure of consumer benefit, which is calculated by analyzing the difference between what consumers are willing and able to pay for a good or service relative to its market price, or what they actually do spend on the good or service.

Hence according to the question,

• Consumer surplus = Consumer Willing – Able to Pay + Discount on Able to Pay

• = 50 lakhs - 42 lakhs

• = 8 lakhs

• Discount on Able to Pay = 5%

• = 42 lakhs × (5 ÷ 100)

• = 2.1 lakhs

• Consumer Surplus = 8 lakhs + 2.1 lakhs

• = 10.1 lakhs

Q86. Answer: (a) radium

The correct answer is radium.

Explanation;

• Radon-222 is formed naturally during a chain of radioactive decay.

• The decay series begins with uranium-238, and among the substances formed is radium-226, which decays directly to radon-222.

• Uranium is widely distributed in rocks and soils throughout the earth's crust.

Q87. Answer: (a) Crater

The correct answer is Crater.

Key Points

• An impact crater is an approximately circular depression in the surface of a planet, moon, or another solid body in the Solar System or elsewhere, formed by the hypervelocity impact of a smaller body.

Additional Information

• Smog:-

• It is the term derived from two words smoke and fog.

• It is a kind of intense air pollution.

• The word smog was coined in the 20th century.

• Smog is air pollution that reduces visibility.

• This kind of visible air pollution is composed of nitrogen oxides, sulfur oxides, ozone, smoke, and other particulates.

• Man-made smog is derived from coal combustion emissions, vehicular emissions, industrial emissions, forest and agricultural fires, and photochemical reactions of these emissions.

• Smog is the result of the reaction of emissions from automobiles, factories, and industries with the sunlight and atmosphere.

• Crust:-

• It is the outermost solid part of the earth, normally about 8-40 km thick.

• It is brittle in nature. Nearly 1% of the earth’s volume and 5% of the earth’s mass are made of the crust.

• The thickness of the crust under the oceanic and continental areas is different.

• The oceanic crust is thinner (about 5kms) as compared to the continental crust (about 30 km).

• Delta:-

• A Delta is a wetland that forms rivers and empties their water and sediment into another body of water such as an ocean, river, or lake.

Q88. Answer: (c) China

The correct answer is China.

Key Points

• China:-

• Stretching 3,100 miles (5,000 kilometers) from east to west and 3,400 miles (5,500 kilometers) from north to south, China is a large country with widely varying landscapes. Its territory includes mountains, high plateaus, sandy deserts, and dense forests.

• One-third of China's land area is made up of mountains. The tallest mountain on Earth, Mount Everest, sits on the border between China and Nepal.

• China has thousands of rivers. The Yangtze and the Yellow Rivers are the most important. At 3,915 miles (6,300 kilometers) long, the Yangtze is the world's third-largest river.

Additional Information

• Russia:-

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• It covers nearly twice the territory of Canada, the second largest.

• It extends across the whole of northern Asia and the eastern third of Europe, spanning 11 time zones and incorporating a great range of environments and landforms, from deserts to semiarid steppes to deep forests and Arctic tundra.

• Russia contains Europe's longest river, the Volga, and its largest lake, Ladoga. Russia also is home to the world's deepest lake, Baikal, and the country recorded the world's lowest temperature outside the North and South poles.

• Iraq:-

• Iraq is one of the easternmost countries of the Arab world, located at about the same latitude as the southern United States.

• Its Capital is Baghdad.

• Thailand:-

• It is located in the center of mainland Southeast Asia.

• The capital is Bangkok.

• The population is predominantly Thai, with significant Chinese, Khmer, and Malay minorities. Language: Thai (official).

Country	Capital
China	Beijing
Iraq	Baghdad
Thailand	Bangkok
Russia	Moscow

Q89. Answer: (d) 17th Century

The correct answer is 17th Century.

Key Points

• Taj Mahal:

• An immense mausoleum of white marble, built in Agra between 1631 and 1648 by order of the Mughal emperor Shah Jahan in memory of his favorite wife.

• The Taj Mahal is the jewel of Muslim art in India and one of the universally admired masterpieces of the world's heritage.

• • The stunning 17th Century white marble Taj Mahal was built by Mughal emperor Shah Jahan as a mausoleum for his beloved wife Mumtaz Mahal, who died in childbirth.

Additional Information

Some of the recent Unesco world heritage sites in India are:

Name	Region	Year
Rani ki vav (The Queen's Stepwell)	Patan, Gujarat, India	2014
Great Himalayan National Park	Himachal Pradesh, India	2014
Archaeological Site of Nalanda Mahavihara at Nalanda, Bihar	Bihar	2016
Khangchendzonga(Kangchenjunga) National Park	Sikkim	2016
The Architectural Work of Le Corbusier	Chandigarh, India	2016
Historic City of Ahmedabad	Ahmedabad, Gujarat	2017
The Victorian and Art Deco Ensemble of Mumbai	Maharashtra	2018
Jaipur	Jaipur, Rajasthan	2019

Q90. Answer: (d) Ranjit Singh

The correct answer is Ranjit Singh.

Key Points

• Ranjit singh

• Ranjit Singh's parents were Mahan Singh Sukerchakia and Raj Kaur..

• He expanded his empire by annexing states around him. The Sikh Empire existed from 1799 till 1849.

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• The major towns in Ranjit Singh's empire were Lahore, Amritsar, Multan, Peshawar, Jammu, Srinagar, Rawalpindi, and Sialkot.
• Ranjit Singh was declared the 'Maharaja of Punjab' on 12 April 1801.
• Ranjit Singh's army was known as the Khalsa army.
• Ranjit Singh, renowned as Sher-e-Punjab (Lion of Punjab), is remembered for the possession of the Koh-i-Noor diamond.

Additional Information

• Sher Shah
• Sher Shah Suri was the founder of the Suri dynasty.
• The silver coin introduced by Sher Shah Suri was called Rupiya.
• Sher Shah Suri issued the Rupiya coin and fixed standard weights and measures all over the empire.
• This coin introduced by Sher Shah Suri weighed 178 grains and was the precursor of the modern rupee.
• Sher Shah Suri defeated Humayun in the battle of Chausa and assumed the title of Farid al-Din Sher Shah as emperor in 1539.
• He again defeated the Humayun in the battle of Kannauj and annexed Kannauj in 1540.
• The grand trunk road that turns from Calcutta to Peshawar was built by Sher Shah Suri.
• Rana Pratap
• He belongs to the Sisodias of the Mewar dynasty.
• He was titled "Mewari Rana".
• The struggle between the Rajput confederacy led by Pratap Singh, and the Mughal Empire under Akbar, has often been characterized as a struggle between Hindus and the invading Muslims.
• He fought many battles including the historic battle of 'Haldighati' against Raja Mansingh on June 21, 1576.
• The Battle of Dewair was a battle fought in 1582 between Mewar forces led by the Maharana Pratap against the Mughal Empire forces of Akbar led by Shabaz Khan in present-day Rajasthan.
• This battle was won by Maharana Pratap.
• Hemu vikramaditya
• He was a Hindu king and had earlier served as a general and chief minister of Adil Shah Suri (Suri dynasty).
• He had won 22 battles for Adil Shah Suri defeating the Afghan rebels and Mughal forces of Humayun and Akbar.
• He assumed the title of 'Vikramaditya' after taking the control of Delhi.
• He was defeated by the Akbar's army in the second battle of Panipat on 5 November 1556.

Q91. Answer: (c) 1870s

The correct answer is 1870s.

Key Points

• Telephone:-
• It is invented by Alexander Graham Bell.
• He also created methods for teaching speech to the deaf and participated in medical research.
• Bell was a brilliant inventor who received patents for the telephone, the telegraph, photophones, aerial vehicles, and hydroplanes.
• The first successful bi-directional transmission of clear speech by Bell and Watson was made on March 10, 1876, when Bell spoke into the device, "Mr. Watson, come here, I want to see you." and Watson answered.

Additional Information

• | Scientist | Invention |

Alexander Graham Bell	**Telephone**
James Watt	Steam Engine
J.L. Baird	Television
C. Sholes	QWERTY keyboard

Q92. Answer: (d) Both 1 and 2

The correct answer is Both 1 and 2.

Explanation:

• A Resistor is a device which opposes the flow of charge in the circuit. Hence it is used to limit electric current flow in the circuit.
• Whereas Fuse is used to protect the electric Circuit from sudden surges of charge flowing into the circuit.
• So, both are in a way, limiting the flow of electric current in a circuit and hence both are the right answer.

Q93. Answer: (c) [IL^(-2)]

The ampere per meter squared, symbolized A/m^(2,)is the International Unit of electric current density.

A current density of 1 A/m² represents one ampere of electric current flowing through a material with a cross-sectional area of one square meter.

ampere per squared meter (A/m²) has a dimension of IL^(-2) where L is length, and I is electric current.

Q94. Answer: (b) The Chief Justice

The correct answer is The chief Justice of India.

Key Points

• The chief justice of India makes the oath or affirmation to the President of India.

• In the absence of the chief justice, the senior-most judge of the Supreme Court is available for the oath.

• Article 60 talks about oath or affirmation by the President.

• The tenure of the President is 5 years.

• He is appointed by the electoral college.

• He can resign by writing to the Vice-President.

Additional Information

Prime Minister:

• In the scheme of the parliamentary system of government provided by the constitution, the President is the nominal executive authority (de jure executive) and Prime Minister is the real executive authority (de facto executive).

• In other words, the president is the head of the State while Prime Minister is the head of the government.

Lok Sabha Speaker:

• The Lok Sabha speaker is the presiding officer or head of Lok Sabha.

• He is the guardian of the powers and privileges of members and committees of Lok Sabha.

• President appoints a Protem Speaker for the first meeting of the newly elected Lok Sabha.

• He is appointed to administer the oath to the new members and enable the house to elect a new speaker. Usually, the senior-most member is elected as a Protem speaker and the President himself administers the oath to him.

Chairman of Rajya Sabha:

• The Vice-President of India is the ex-officio Chairman of the Rajya Sabha.

• The term of the Chairman of the Rajya Sabha is only 5 years.

• The Vice-President is elected by the members of an electoral college consisting of the members of both Houses of Parliament in accordance with the system of proportional representation by means of the single transferable vote.

Q95. Answer: (a) 3

The correct answer is 3

Key Points

• Rajya Sabha:-

• The Rajya Sabha or Council of States is the upper house of the Parliament of India.

• Membership is limited to 250 members, and the present Rajya Sabha has 245 members.

• Himachal Pradesh elects 3 members for the term of 6 years and indirectly elected by the state legislators, since the year 1956.

• The Vice President of India is the Chairman of the Rajya Sabha.

• The Vice President of India is the ex-officio Chairman of the Rajya Sabha.

• The term of the Chairman of the Rajya Sabha is only 5 years.

• The Rajya Sabha selects a Deputy Chairman from among its members.

• The Chairman of the Rajya Sabha gives his resignation to the President.

• In the absence of the Chairman of the Rajya Sabha, the deputy chairman performs the duties of the Chairman.

• The Deputy Chairman is elected internally by the Rajya Sabha.

Additional Information

• Number of Rajya Sabha Seats in All the Indian States

• | S.N. | State Name | No. of MP's at Rajya Sabha |

1.	**Uttar Pradesh**	**31**
2.	Bihar	16
3.	Karnataka	12

4.	Andhra Pradesh	11
5.	Rajasthan	10

Q96. Answer: (c) Cricket

The correct answer is Cricket.

Key Points

• In the early 17^(th) century, it was decided by English aristocrats that cricket would be played in a 'gentlemanly manner'.

• Often, the phrase, 'gentleman's game' is used to describe cricket which means no sledding, cheating, bodyline bowling, temper tantrums, or excessive appealing.

• If the batsman knew he was out, he should walk back to the pavilion even if the umpire had decided otherwise.

Additional Information

• The golf field is wide and full of green grass. This ground is called the 'Golf Course'.

• Baseball is a game played with a bat, a ball, and gloves between two teams of nine players each on a field with four bases laid out in a diamond.

• Snooker A game played with cues on a billiard table in which the players use a cue ball (white) to pocket the other balls (fifteen red and six coloured) in a set order.

Q97. Answer: (a) Anand Neelakantan

The correct answer is Anand Neelakantan.

Key Points

• Anand Neelakantan:-

• He is an Indian author, columnist, screenwriter, and public speaker.

• He is known for writing mythological fiction and has authored eight books in English and one in Malayalam.

• Some important book

• Vanara: The Legend of Baali

• Sugreeva and Tara

• Rise of Kali: Duryodhana's Mahabharata.

Additional Information

• R. K. Narayan:-

• He was born in 1906 in Madras and began his writing career with Swami and Friends (1935).

• He created the fictional town Malgudi which became the setting for most of his short stories.

• All the stories in Malgudi Days are narrated by an unnamed narrator and his stories reveal features of realism, subtle social criticism, and allegory.

• He has won many awards such as Sahitya Akademi Award and Padma Bhushan.

Q98. Answer: (b) Nickel

The correct answer is Nickel.

Key Points

• Nickel

• Nickel is a chemical element with the symbol Ni and atomic number 28.

• It is a silvery-white lustrous metal with a slight golden tinge.

• It is hard and ductile.

Additional Information

• Lead

• Lead is obtained from Galena and Lead Sulphate.

• In India, Rajasthan is the largest producer which produces up to 92% of the total lead in India.

• Lead is used in the manufacture of Guns and in Soldering.

• Lead Nitrate is used in dyeing/printing.

• Lead is widely used because of its heaviness, malleability, softness, and bad conductivity of heat.

• Gold

• Au is the symbol of Gold.

• Its atomic number is 79.

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• In its purest form, it is a bright, slightly reddish yellow, dense, soft, malleable, and ductile metal.
• It is present at the crossing of the 11th group and 6th periods.
• Tin
• Ch hattisgarh is the only tin-producing State in India.
• Tin ore is known as cassiterite.
• Cassiterite is the main ore of Tin.
• It is a mineral of tin oxide, SnO_2.
• It i s usually white, but transparent in small crystals.

Q99. Answer: (c) Grand Canal

The correct answer is Grand Canal.

Key Points

• Grand Canal located between Beijing-Hangzhou in China, is the longest artificial river or canal in the world.
• It has been also listed as a World Heritage Site by UNESCO during the Conference on World Heritage in 2014.
• The Grand Canal's total length is approximately 1,104 miles while its greatest height is 138 feet at the summit of Shandong Mountain.

Additional Information

• Panama Canal was created in 1914 and is 77 km long connecting two oceans, the Atlantic and the Pacific.
• The Corinth Canal connects the Gulf of Corinth in the Ionian Sea with the Saronic Gulf in the Aegean Sea.
• The Welland Canal is a ship canal in Ontario, Canada, connecting Lake Ontario and Lake Erie.

Q100. Answer: (c) endosperm

The correct answer is the endosperm.

Explanation:

• In fertilization of a flower, one sperm nucleus fertilizes the egg cell, forming a zygote, while the other sperm nucleus usually fuses with the binucleate central cell, forming a primary endosperm cell (its nucleus is often called the triple fusion nucleus). That cell created in the process of double fertilization develops into the endosperm.
• The most important and unique characteristic of angiosperms is the participation of both male gametes in the act of fertilization. One male gamete fuses with the egg cell and forms the diploid Zygote. The process is called syngamy or generative fertilization. The Zygote (2n) develops into an embryo.
• The other male gamete fuses with two polar nuclei (or secondary nuclei) to form the triploid primary endosperm nucleus. The process is known as triple fusion or Vegetative fertilization.
• These two actions of fertilization are together called Double Fertilization

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