SSC CHSL Previous Paper 11 (Held On: 7 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. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Proximat
(b) Proximmate
(c) Proximate
(d) Proximmat

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.

A nation’s progress

A-requires many policies, many

B-on many fronts

C-plans, and actions

(a) ABC
(b) CBA
(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".

Nothing (have prepared) him for a continent that was a country, and a land of terrific complexity.

(a) Had prepare
(b) Had prepared
(c) Had preparing
(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".

I could see that the situation (have reversed).

(a) Had reverse
(b) Had reversed
(c) Had reversing
(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.

Look forward to

(a) Eschew
(b) Abstain
(c) Obviate

(d) Anticipate

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

Fix an object firmly and deeply in a surrounding mass

(a) Lax
(b) Embed
(c) Flaccid
(d) Asunder

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

Mind your language

(a) To speak first and think later.
(b) To put a lot of efforts to understand what the other person is trying to say.
(c) Tell someone to speak politely.
(d) To speak grammatically incorrect language.

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

A ray of hope

(a) Even in a very bad situation one should try to see a good thing.
(b) Good days are sure to follow difficult ones.
(c) Be very happy even if the reason is very small.
(d) Something that provides a small amount of optimism in a difficult situation.

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.

Business is for profits and the spirit of _____ and driving high performance are encouraged in a ____ environment. Also, in a democratic country like India, perceived ____ in the distribution of earnings or wealth is crucial to hold the fabric of its society, be it the citizens ____ the country or employees of a corporation. The evolution of compensation practices in India over the _____ five decades demonstrates the changes that have taken place.

Q9. India over the _____ five decades

(a) Lastly
(b) Lasting
(c) At last
(d) Last

Q10. Be it the citizens _____ the country

(a) From
(b) For
(c) Off
(d) Of

Q11. India, perceived _____ in the distribution

(a) Duty
(b) Fairness
(c) Faith
(d) Inequity

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Q12. Encouraged in a _____ environment.

(a) Capitalistic
(b) Capitalism
(c) Capital
(d) Capitalization

Q13. And the spirit of _____ and driving high

(a) Entrepreneurs
(b) Entrepreneurship
(c) Entrepreneur
(d) Entrepreneurial

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) Farenheit
(b) Fahrenheit
(c) Fahrenheight
(d) Fahrenhist

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.

"German is easy to teach", she said.

(a) She says German is easy.
(b) She told us that German was easy to teach.
(c) She informed German was easy to teach.
(d) She said that German was easy to teach.

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.

Somebody has stolen my register.

(a) My register has been stolen
(b) My register has been stolen upon.
(c) My register has stolen by somebody.
(d) My register has been a steal.

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

The Greek plays

P : maintain an extremely

Q : particularly the tragedies,

R : high intellectual level

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

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

Demure

(a) Strong
(b) Shy
(c) Backward
(d) Afraid

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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.

Illusive

(a) Deceptive
(b) Mystery
(c) Delusive
(d) Factual

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

Behoove

(a) Behind
(b) Bet
(c) Necessary
(d) Optional

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

Judicious

(a) Hasty
(b) Reckless
(c) Irrational
(d) Wise

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.

Our honour and dignity lies in practicing truthfulness and in not being guided by _____

(a) Brotherhood
(b) Motherhood
(c) Falsehood
(d) Monkhood

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.

She _____ recovering in the hospital.

(a) Were
(b) Were to
(c) Has
(d) Has been

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 earliest credible evidence of coffee-drinking or knowledge of the coffee tree (1)/appears in the middle of the fifteenth century (2)/as evident from the accounts of Ahmed al-Ghaffar in Yemen. (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'.

To who (1)/did you (2)/speak last night? (3)/No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

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

Truth : Lie :: ? : ?

(a) Big : Small
(b) Pink : Colour
(c) Big : Huge
(d) Lawyer : Black

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

5 : 25 :: 6 : ?

(a) 39
(b) 37
(c) 28
(d) 36

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

FMR : ELQ :: ? : ?

(a) PEN : QFO
(b) ZEN : XCL
(c) TGA : SFZ
(d) SMP : UOR

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

(a) Up – Down
(b) Big – Small
(c) Run – Fast
(d) Lie – Truth

Q30. In the following question, four number pairs are given. The number on left side of (–) is related to the number of 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) 11 – 144
(b) 13 – 196
(c) 15 – 246
(d) 17 – 324

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

(a) HS
(b) KP
(c) GR
(d) BY

Q32. Arrange the given words in the sequence in which they occur in the dictionary.

1. Read
2. Real
3. Ready
4. Rather
5. Ratify

(a) 32415
(b) 12543

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(c) 45123
(d) 45132

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

9, 13, 22, 38, 63, ?

(a) 96
(b) 99
(c) 84
(d) 90

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

PCK, RFM, TJO, VOQ, ?

(a) XVT
(b) YVT
(c) XUS
(d) ZUS

Q35. In a row of girls, Shweta is 11^(th) from the right end. Mansi is 14^(th) to the left of Shweta. If Mansi is 12^(th) from the left end, then how many girls are there in the row?

(a) 40
(b) 38
(c) 37
(d) 36

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

Information

(a) From
(b) Action
(c) Motion
(d) Norm

Q37. In a certain code language, “TRUMP” is written as “46321” and “GRAIN” is written as “76598”. How is “GRUNT” written in that code language?

(a) 23684
(b) 23847
(c) 67834
(d) 76384

Q38. In a certain code language, '-' represents '×', '÷' represents ' + ', ' + ' represents '÷' and '×' represents '-'. Find out the answer to the following question.

2 × 12 ÷ 32 - 5 + 4 = ?

(a) 17
(b) 34
(c) 28
(d) 30

Q39. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

14 + 8 ÷ 16 - 9 × 12 = 10

(a) • and ÷
(b) • and +
(c) • and ×
(d) ÷ and ×

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Q40. If -3 % 1 = 3, 3 % 6 = -18 and -7 % 4 = 28, then find the value of -2 % 9 = ?

(a) 47
(b) -63
(c) 18
(d) -30

Q41. Which of the following terms follows the trend of the given list?

ABABACCB, ABABCCAB, ABACCBAB, ABCCABAB, ACCBABAB, _____.

(a) ABABABCC
(b) CCABABAB
(c) ABABACCB
(d) ABABCCAB

Q42. A woman while shopping in a mall pushes her trolley 20 metres through an alley which is going East, then she turns to her left and walks 30 metres, then she turns West and walks another 30 metres, then she turns South and walks 30 metres and then she turns West and walks 25 metres. Where is she now with reference to her starting position?

(a) 35 metres West
(b) 5 metres West
(c) 35 metres East
(d) 5 metres East

Q43. 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: No clocks are watches

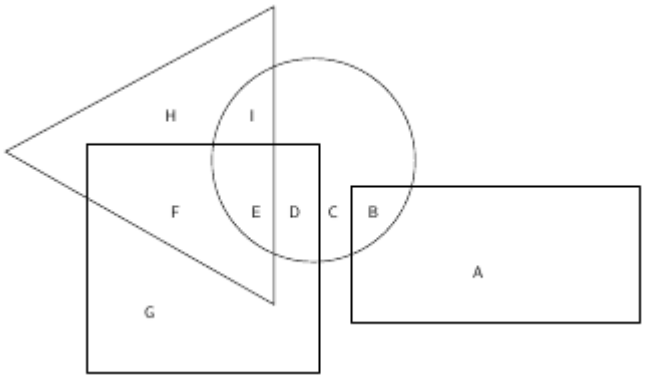
Statement II: No ornaments are clocks

Conclusion I: Some watches are ornaments

Conclusion II: All ornaments are watches

(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

Q44. In the following figure, rectangle represents Plumbers, circle represents Essayists, tringle represents Divers and square represents Asians. Which set of letters represents Asians who are Essayists?



(a) EDB
(b) IED
(c) ED
(d) FED

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Q45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

TAP, WDS, ZGV, ?, FMB

(a) DJZ
(b) CIY
(c) CJY
(d) DKZ

Q46. In the following question, select the missing number from the given series.

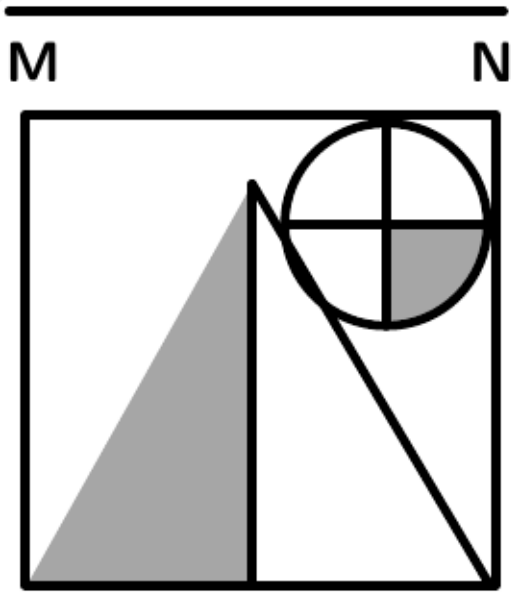
46, 45, 43, 42, 40, 39, ?

(a) 35
(b) 36
(c) 38
(d) 37

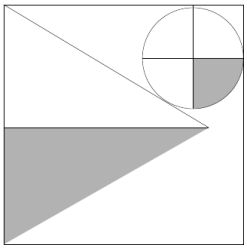
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (11, 13, 15)
(b) (15, 17, 19)
(c) (21, 23, 25)
(d) (25, 27 31)

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

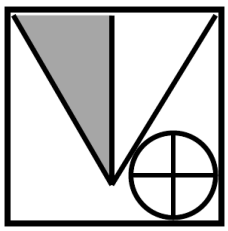


(a)

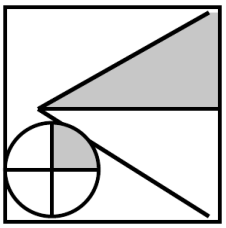


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(b)



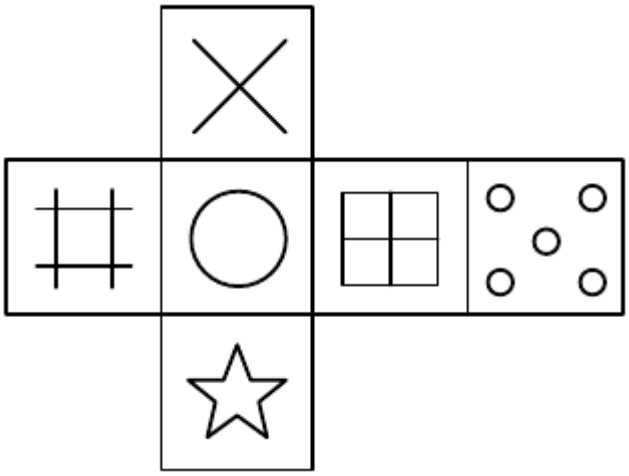
(c)



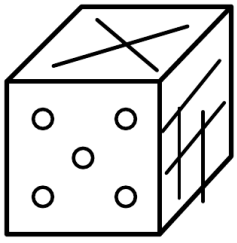
(d)



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

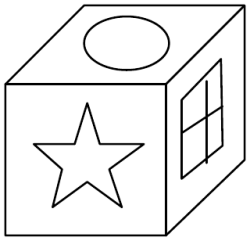


(a)

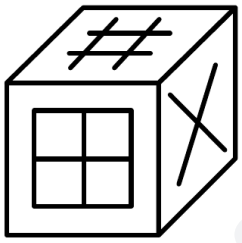


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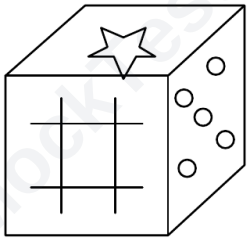
(b)



(c)



(d)



Q50. 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 'B' can be represented by 23, 42 etc and 'N' can be represented by 95, 96 etc. Similarly, you have to identify the set for the word 'SALT'.

Matrix I					
	0	1	2	3	4
0	M	E	F	J	M
1	I	D	H	J	F
2	K	F	B	B	L
3	A	J	J	C	D
4	K	D	B	E	B

Matrix II					
	5	6	7	8	9
5	P	U	W	X	Y
6	P	U	X	R	Y
7	R	Z	T	O	X
8	S	V	T	R	X
9	N	N	O	X	S

(a) 34, 58, 12, 89
(b) 20, 97, 41, 89
(c) 99, 30, 24, 87

(d) 33, 88, 31, 89

QUANTITATIVE APTITUDE

Q51. Find the number which is NOT a prime number.

(a) 89
(b) 87
(c) 79
(d) 97

Q52. Which of the following is the largest among √2, cbrt3, √4, cbrt5.

(a) √2
(b) cbrt3
(c) √4
(d) cbrt5

Q53. What is the value of 13 × (49)^((3/2))?

(a) 4369
(b) 4459
(c) 4549
(d) 4639

Q54. What is the value of $(a^2 + b^2)/(a^3 - b^3)$, when a + b = 8 and a – b = 2?

(a) 0.313
(b) 0.347
(c) 0.368
(d) 0.381

Q55. If DE is parallel to BC and bisects the other two sides of the triangle ABC such that the ratio AD/DB = 5/13 and the length of the part EC is 26 cm. Then determine the length of AE (in cm).

(a) 5
(b) 10
(c) 15
(d) 20

Q56. The diameter of the driving wheel of a cart is 154 cm. Calculate the revolution per minute [RPM] of the wheel (approx) in order to keep a speed of 33 Kilo meter per hour.

(a) 114
(b) 112
(c) 110
(d) 108

Q57. A number is divided into two parts in such a way that 30% of first part is 25 more than the 20% of second part. 50% of second part is 33.5 more than the 60% of first part. What is the number?

(a) 1475
(b) 1655
(c) 1425
(d) 1905

Q58. Two vessels of equal capacity contains juice and water in the ratio of 5 : 1 and 5 : 7 respectively. The mixture of both the vessels are mixed and transferred into a bigger vessel. What is the ratio of juice and water in the new mixture?

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

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Q59. In an alloy, aluminium and tin are in the ratio of 4 : 5. In the second alloy, the ratio of same elements is 4 : 7. If equal quantities of these two alloys be mixed to form a new alloy, then what will be the ratio of both of these elements in the new alloy?

(a) 2 : 3
(b) 16 : 35
(c) 4 : 5
(d) 40 : 59

Q60. Among four bags, the average weight of the last three bags is 18 kg and the average weight of the first three bags is 19 kg. If the weight of the last bag is 22 kg, then what is the weight (in kg) of first bag?

(a) 32
(b) 24
(c) 33
(d) 25

Q61. A sum becomes Rs. 8800 in 4 years at simple interest at the yearly interest rate of 25% per annum. What is the sum (in Rs.)?

(a) 4400
(b) 6600
(c) 7040
(d) 6400

Q62. Cost price of an article is Rs. 360. If the profit percentage is 32%, then what is the value (in Rs.) of profit?

(a) 126.2
(b) 108.2
(c) 115.2
(d) 105.2

Q63. Rohit buys a ball for Rs. 450 and sells it. Rohit gives two successive discount of 20% and 5% to the customer. What will be the selling price (in Rs.) of the ball?

(a) 342
(b) 354
(c) 334
(d) 362

Q64. What is the value of √(2^6 + 15²) ?

(a) 17
(b) 19
(c) 15
(d) 21

Q65. A work can be completed by 18 boys in 24 days. If 6 boys leave after working for 12 days, then how many days will be needed to complete the remaining work?

(a) 12
(b) 15
(c) 18
(d) 24

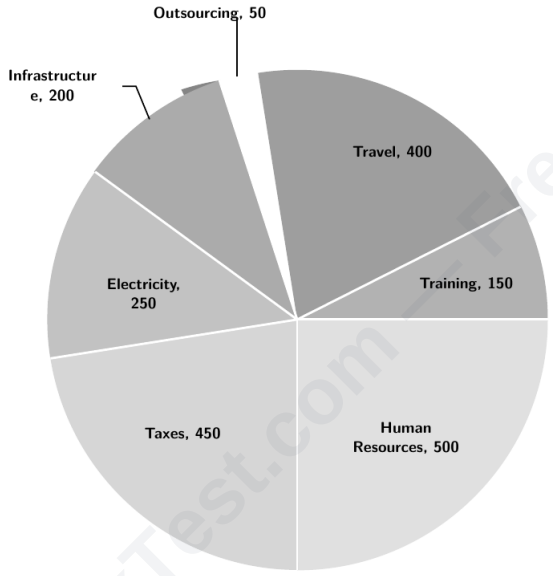
Q66. Two trains are moving in the same direction at the speed of 42 km/hr and 84 km/hr and their lengths are 320 meters and 380 meters respectively. What is the time taken (in seconds) by faster train to cross the slower train?

(a) 60
(b) 80
(c) 90
(d) 120

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Directions

Direction: The pie chart shows the breakup of expenditure of a software company for the year 2017. Study the diagram and answer the following questions.



Expenditure (in Rs. Lakhs)

Q67. The second highest expenditure is for which item?

(a) Taxes
(b) Human resources
(c) Training
(d) Travel

Q68. What is the total expenditure (in Rs. lakhs)?

(a) 2000
(b) 1800
(c) 2250
(d) 2100

Q69. The measure of the central angle of the sector representing Training is _____ degrees.

(a) 27
(b) 30
(c) 33
(d) 24

Q70. Expenditure on Outsourcing and Infrastructure constitute what percent of total expenditure?

(a) 33.3%
(b) 12.5%
(c) 15%
(d) 10%

Q71. The length of the diagonal and the breadth of a rectangle are 29 cm and 20 cm respectively. Find its perimeter (in cm).

(a) 164
(b) 82
(c) 21
(d) 42

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Q72. What is the measure of an exterior angle of a regular polygon of 5 sides?

(a) 72
(b) 60
(c) 45
(d) 40

Q73. The total surface area of a cube is 73.5 cm². Find its side (in cm).

(a) 3.5
(b) 4.5
(c) 7.5
(d) 5.5

Q74. What is the value of (1/3 – cosec 30°)?

(a) (√6 – 1) /√3
(b) -1/2
(c) -5/3
(d) 3/2

Q75. In ΔDEF measure of angle E is 90°. If sec D = 25/7, and DE = 1.4 cm, then what is the length (in cm) of side DF?

(a) 5
(b) 4.8
(c) 4
(d) 5.6

GENERAL AWARENESS

Q76. Which of following sectors do NOT come under tertiary sector?

(a) Electricity
(b) Business Services
(c) Transport
(d) Trade

Q77. Money in India consists of _____.

(a) paper currency
(b) current deposits
(c) Metallic coins
(d) All options are correct.

Q78. Which of the following items was NOT exportable in the past Gupta period?

(a) Iron
(b) Gold
(c) Tin
(d) Silver

Q79. In which session of the Congress was the slogan of the Simon Commission’s boycott?

(a) Calcutta Convention (1928)
(b) Madras Session (1927)
(c) Surat Session (1907)
(d) Nagpur session (1920)

Q80. What is the name of the second layer of the Earth's three concentric layers?

(a) SIAL
(b) SIMA
(c) NIFE
(d) No option is correct.

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Q81. How did the Lakshadweep islands of group originate?

(a) Volcanic origin
(b) Soil Deposition
(c) Coral origin
(d) No option is correct.

Q82. Use of an attractive masquerade or mask is associated with which of the following dance style?

(a) Kathakali
(b) Kuchipudi
(c) Odissi
(d) Manipuri

Q83. The G-77 is a coalition of developing nation, what was the venue of G-77, 2017 summit?

(a) Indonesia
(b) Ecuador
(c) South Korea
(d) Argentina

Q84. Who among the following is a recipient of Padma Bhushan for the year 2018 in the field of Art-Painting?

(a) Laxman Pai
(b) Arvind Parikh
(c) Sharda Sinha
(d) Ramachandran Nagaswamy

Q85. When was Pakistan's capital Islamabad was built?

(a) In the 1940s
(b) In the 1950s
(c) in the 1960s
(d) No option is correct.

Q86. Which statement(s) is/are CORRECT regarding Dalton’s Atomic theory?

I. All matters are made of very tiny particles.
II. Atoms of different elements have different masses and chemical properties.
III. The relative number of atoms is variable in any compound.

(a) Only I and II
(b) Only I and III
(c) Only II and III
(d) All I, II and III

Q87. In a combination reaction there can be _____.

I. two or more than two reactants
II. two or more than two products
III. only one product

(a) Only I
(b) Only I and III
(c) Only I and II
(d) Only II

Q88. Which among the following does NOT hold their office during the pleasure of President?

(a) Governor of State
(b) Attorney General of India
(c) Chief Election Commissioner
(d) Prime Minister of India

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Q89. Who appoints Advocate General of State in India?

(a) Governor of State
(b) Chief Minister of State
(c) Law Minister of State
(d) No option is correct.

Q90. Pancreatic juice requires which medium for their action?

(a) Acidic
(b) Basic
(c) Neutral
(d) All options are correct.

Q91. Preserved traces of living organisms retained in the form of impressions of the body parts in the soil are called _____.

(a) specimen
(b) fossils
(c) antique
(d) phylogeny

Q92. What does 'J' stand in 'UJALA' scheme being undertaken by the Energy Efficiency Services Limited (EESL)?

(a) Jeevan
(b) Jyoti
(c) Jagriti
(d) Jagran

Q93. What are names of two missions to be launched by NASA to explore the ionosphere?

(a) SILVER and LOGO
(b) BOLD and BRIGHT
(c) LEO and GLOBE
(d) GOLD and ICON

Q94. The central government has set an ambitious target of raising how much amount from disinvestment in 2017-18?

(a) Rs. 72,500 crore
(b) Rs. 1,00,000 crore
(c) Rs. 50,000 crore
(d) Rs. 25,000 crore

Q95. On 26 July 2017, the Parliament passed the Collection of Statistics (Amendment) Bill, 2017. The Bill aims at amending the _____.

(a) Collection of statistics Act, 2008
(b) Collection of statistics Act, 2015
(c) Collection of statistics Act, 2010
(d) Collection of statistics Act, 2012

Q96. What is the heat released by a heating filament rated 20 W when it is kept on for 2 seconds?

(a) 40
(b) 10
(c) 80
(d) 20

Q97. If the Distance-Time graph is a curve then it represents _____.

(a) uniform speed
(b) constant displacement
(c) uniform momentum
(d) non-uniform speed

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Q98. The centre of a cyclone is a calm area, it is called the _____ of the storm.

(a) point
(b) needle
(c) eye
(d) limit

Q99. Which of the statements given below are correct?

A) Roger Federer won the Tennis 2017 French Open Men's Singles.
B) In 2018 IPL auctions, Rajasthan Royals retained Steve Smith.
C) Serena Williams won the Tennis 2017 French Open Women's Singles.

(a) Only B
(b) B and C
(c) A and B
(d) A, B and C

Q100. In Microsoft Word, _____ view shows how the document would look when it is printed.

(a) Web Layout
(b) Normal Layout
(c) Reading Layout
(d) Print Layout

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Proximate

Here the correct answer is Proximate.

Key Points:-

• 'Proximate' derives from Latin 'proximatus' itself the past participle of the verb 'proximare' meaning 'to approach'.

• Let's look at the correct spelling and meaning of the given word:-

• Proximate*(adjective) -*(especially of the cause of something) closest in relationship; immediate.

• For Example - The fact that a storm may show up the poor condition of a flat roof does not signify that storm was the proximate cause of damage to it.

Therefore, the correct spelling of the given word is Proximate.

Q2. Answer: (c) ACB

Here the correct answer is ACB.

Key Points:-

• The first sentence in the sequence should be A because no other sentence fits in other than A.

• The second sentence should be C because 'many' cannot be followed by 'on' as it will be erroneous.
• The third sentence should be B.
• This sequence tells us what is required for the progress of a nation.
• No other sequence can convey this meaning.

Therefore, the correct sequence for the given paragraph is ACB.

Q3. Answer: (b) Had prepared

Here the correct answer is Had prepared.

Key Points:-

• In the above given sentence, 'had prepared' will be used.
• It is so because the sentence is past perfect tense.
• In past perfect tense we follow the given structure:-
• Structure - Subject + had + V3 + Object.
• For Example - He had left for India.
• Therefore, we use V3 form of the verb with 'had'.
• Here in the given options, option 1 is invalid because we do not use V1 form of the verb with 'had'.
• Option 3 is incorrect because we do not use present participle form of the verb with 'had'.
• 'Have prepared' is incorrect because the sentence is in past perfect tense(an action which has completed a long time ago).

Therefore, the correct sentence will be Nothing had prepared him for a continent that was a country, and a land of terrific complexity.

Q4. Answer: (b) Had reversed

Here the correct answer is Had reversed.

Key Points:-

• In the above given sentence, 'had reserved' will be used.
• It is so because the sentence is past perfect tense.
• In past perfect tense we follow the given structure:-
• Structure - Subject + had + V3 + Object.
• For Example - He had left for India.
• Therefore, we use V3 form of the verb with 'had'.
• The only option which contains the V3 form of the verb with 'had' is option 2.
• The other options are wrong because we cannot use V1 form of the verb, present participle form of the verb with 'had'.
• 'Have reversed' cannot be used because 'situation' is a singular noun and we cannot use 'have' with a singular noun.

Therefore, the correct sentence is I could see that the situation had reversed.

Q5. Answer: (d) Anticipate

Here the correct answer is Anticipate.

Key Points:-

• Let's look at the meaning of the given phrasal verb:-
• Look forward to - await something eagerly.
• For Example - We look forward to seeing you.
• Let's look at the meaning of the correct answer:-
• Anticipate*(verb)* - regard as probable; expect or predict.
• For Example - She anticipated scorn on her return to the theatre.
• Let's look at the meaning of the other options:-
• Eschew*(verb)*: Deliberately avoid using; abstain from.
• For Example - He appealed to the crowd to eschew violence.
• Abstain*(verb)*: restrain oneself from doing or enjoying something.
• For Example -During Lent, many religious people decide to abstain from something to focus more clearly on God.
• Obviate*(verb)*: remove (a need or difficulty)
• For Example - The presence of roller blinds obviated the need for curtains.

Therefore, the correct meaning of the given phrasal verb is Anticipate.

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Q6. Answer: (b) Embed

Here the correct answer is Embed.

Key Points:-

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

• Embed*(verb) -* fix (an object) firmly and deeply in a surrounding mass.

• For Example - The thorn was embedded in her thumb.

• Let's look at the meaning of the other options:-

• Lax*(adjective)* - not sufficiently strict, severe, or careful.

• For Example - Never let go of that privacy or be lax with your security.

• Flaccid*(adjective)* - soft and hanging loosely or limply.

• For Example - His face was childlike and flaccid.

• Asunder*(adverb)* - apart.

• For Example - You cannot in the actual man cut soul and body asunder; they interpenetrate in every member.

Therefore, the correct meaning of the given sentence is Embed.

Q7. Answer: (c) Tell someone to speak politely.

The solution is in Hindi. Read it online.

Q8. Answer: (d) Something that provides a small amount of optimism in a difficult situation.

Here the correct answer is Something that provides a small amount of optimism in a difficult situation.

Key Points:-

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

• A ray of hope - a small chance that things will get better.

• For Example - I believe there is still a ray of hope.

Therefore, the correct meaning of the given idiom/phrase is Something that provides a small amount of optimism in a difficult situation.

Q9. Answer: (d) Last

Here the correct answer is Last.

Key Points:-

• In the above given blank, 'last' will be used.

• It is so because an adverb will be used to qualify the adjective i.e. five.

• There are two adverbs in the given options.

• The adverb 'lastly' means in the last place (used to introduce the last of a series of points or actions) which does not fit in the context.

• Thus, the option we are left with is Option 4 i.e. last.

Therefore, the correct word for the blank is Last.

Q10. Answer: (d) Of

Here the correct answer is Of.

Key Points:-

• In the above given blank, 'of' will be used.

• It is so because citizens belong to the country.

• Therefore the preposition 'of' must be used.

• 'Of' is a preposition which is used to denote relation.

• For Example - Adarsh is a friend of mine.

• The other options are irrelevant because of the following reasons:-

• 'Off' is used to denote separation.

• For Example - He fell of the train.

• 'From' is used to denote a point of time/distance at which something starts and then continues. It is also used to denote separation.

• For Examples- The price of petrol will rise by Rs. 2 from Sunday.

• 'For' is used to denote how long something lasts.

• For Example - David was on leave for 5 days.

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Therefore, the correct answer to the blank is Of.

Q11. Answer: (b) Fairness

Here the correct answer is Fairness.

Key Points:-

• We should use the noun 'fairness' here.

• It is so because 'perceived fairness' has been used as one single term in this sentence that conveys one idea.

• 'Perceptions of fairness' refer to any element of the environment perceived by individuals or collectives as fair according to previous norms or standards.

• On the other hand 'perceived duty', 'perceived faith' doesn't make sense whereas 'perceived fairness' is a broad concept related to employee welfare.

Therefore, the correct answer for the blank is Fairness.

Q12. Answer: (a) Capitalistic

Here the correct answer is Capitalistic.

Key Points:-

• Here we must use an adjective, because 'environment' is a noun.

• Adjectives are words that describe the qualities or states of being of nouns such as enormous, doglike, silly, yellow, fun, fast.

• They can also describe the quantity of nouns such as many, few, millions, eleven.

• 'Capitalism' cannot be used because it is a noun meaning an economic and political system in which a country's trade and industry are controlled by private owners for profit, rather than by the state.

• 'Capital' cannot be used because it is also a noun meaning wealth in the form of money or other assets owned by a person or organization or available for a purpose such as starting a company or investing.

• 'Capitalization' is invalid because it is also a noun meaning the provision of capital for a company, or the conversion of income or assets into capital.

Therefore, the correct answer for the blank is Capitalistic.

Q13. Answer: (b) Entrepreneurship

Here the correct answer is Entrepreneurship.

Key Points:-

• A preposition is always followed by a noun or a pronoun.

• The noun or pronoun act as object for the preposition.

• In the above given sentence, the preposition 'of' should be followed by a noun or a pronoun.

• In all the options given, 'entrepreneurship' is the best suited option.

• It is so because it means 'the activity of setting up a business or businesses, taking on financial risks in the hope of profit' which fits in the context of the passage.

Therefore, the correct answer for the given blank is Entrepreneurship.

Additional Information

• Meaning of Entrepreneur*(noun)* - a person who sets up a business or businesses, taking on financial risks in the hope of profit.

• For Example -Many entrepreneurs see potential in this market.

Q14. Answer: (b) Fahrenheit

Here the correct answer is Fahrenheit.

Key Points:-

• Named after Prussian scientist Daniel Gabriel Fahrenheit.

• Let's look at the correct spelling and meaning of the given word:-

• Fahrenheit*(noun)* - the name of a scale which measures temperatures.

• For Example - Water freezes at 32° Fahrenheit (32°F).

Therefore, the correct spelling of the given word is Fahrenheit.

Q15. Answer: (d) She said that German was easy to teach.

Here the correct answer is She said that German was easy to teach.

Key Points:-

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

• As the reporting verb is in the past tense and direct speech is in the simple present tense, we will take the following steps:-

• The conjunction 'that' is used in place of the comma and the inverted comma are removed.
• The simple present tense (is easy) is changed to simple past tense (was easy) in the direct speech.
Therefore, the correct indirect speech pf the given direct speech is She said that German was easy to teach.
Additional Information
The following table will enable us to know how tense changes in indirect speech:-

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

Q16. Answer: (a) My register has been stolen

Here the correct answer is My register has been stolen.
Key Points:-
• The given sentence is in active voice.
• The active voice is in present perfect tense.
• Whenever an active voice is given in present perfect tense, we change it according to the following structure:-
• Active Voice - Subject + has/have + V3 + Object.
• Passive Voice - Object + has/have + been + V3 + Subject.
• For Example:-
• Active Voice - This man has washed the clothes.
• Passive Voice - The clothes have been washed by this man.
• Here, 'this man'(i.e. the subject) has become the object and the 'clothes'(i.e. the object has become the subject).
• In the question sentence 'my register' is the object and 'somebody' is the subject.
• Therefore, 'my register' has become the subject and 'somebody' has become the object.
Thus, the correct passive voice of the given active voice is My register has been stolen.
Additional Information
• When we convert active voice to passive voice, three things need to be kept in mind:-
• Change object into subject.
• Change subject into object.
• Always use third form of verb in passive voice.
• Use 'by' before the new object.

Q17. Answer: (d) QPR

Here the correct answer is QPR.
Key Points:-
• Here both sentence P and Q can be used as the first sentence in the sequence.
• But we can't use Q as the second sentence like it has been given in option 1, because it makes no sense.
• 'Extremely' and 'Particularly' cannot be used together.
• Moreover, Q is further talking about a type of Greek play(i.e. tragedy) about which the starting sentence(The Greek plays) has talked about.
Therefore, the correct sequence of the sentence will be QPR.

Q18. Answer: (a) Strong

Here the correct answer is Strong.
Key Points:-
• Let's look at the meaning of the given word:-

• Demure*(adjective)* - reserved, modest, and shy (typically used of a woman).
• For Example - He loved the way she could be wanton and sensual one minute, then bashful and demure the next.
• Synonyms - modest, unassuming, meek, mild.
• Antonyms - brazen, shameless.
• Let's look at the meaning of the correct answer:-
• Strong*(adjective)* - having the power to move heavy weights or perform other physically demanding tasks.
• For Example - She cut through the water with her strong arms.
• Synonyms - powerful, muscular, brawny, hefty.
• Antonyms - weak, puny, demure, meek.
• Let's look at the meaning of the other options:-

WORD	MEANING
Shy*(adjective)*	nervous or timid in the company of other people.
Backward*(adjective)*	having made less progress than is normal or expected.
Afraid*(adjective)*	feeling fear or anxiety; frightened.

Therefore, the correct antonym for the given word is Strong.

Q19. Answer: (d) Factual

Here the correct answer is Factual.
Key Points:-
• Let's look at the meaning of the given word:-
• Illusive*(adjective)* - deceptive; illusory.
• For Example - He gave the question some thought before responding with an illusive and general answer.
• Synonyms - deceitful, delusive, apparent, chimerical.
• Antonyms -facing, honest, available, accessible.
• Let's look at the meaning of the correct answer:-
• Factual*(adjective)* - concerned with what is actually the case.
• For Example - Think of how the computer in the Star Trek universe was a purely factual machine.
• Synonyms - truthful, true, authentic, accurate.
• Antonyms - dishonest, false, inaccurate, inexact.
• Let's look at the meaning of the other options:-

WORD	MEANING
Deceptive*(adjective)*	giving an appearance or impression different from the true one; misleading.
Mystery*(noun)*	something that is difficult or impossible to understand or explain.
Delusive*(adjective)*	giving a false or misleading impression.

Therefore, the correct antonym for the given word is Factual.

Q20. Answer: (c) Necessary

Here the correct answer is Necessary.
Key Points:-
• Let's look at the meaning of the given word:-
• Behoove*(verb) -* it is a duty or responsibility for someone to do something.
• For Example - It behooves the House to assure itself that there is no conceivable alternative.
• Synonyms - befit, beseem, suit.
• Antonyms - inapt, ignore, inconvenient.
• Let's look at the meaning of the correct answer:-
• Necessary*(verb) -* needed to be done, achieved, or present; essential.
• For Example - They granted the necessary planning permission.
• Synonyms - obligatory, requisite, compulsory, required.

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• Antonyms - dispensable, unnecessary, non-essential.

• Le's look at the meaning of the other options:-

WORD	MEANING
Behind*(adverb)*	at or to the far side of something.
Bet*(verb)*	risk a sum of money or valued item against someone else's on the basis of the outcome of an unpredictable event such as a race or game.
Optional*(adjective)*	available to be chosen but not obligatory.

Therefore, the correct synonym for the given word is Necessary.

Q21. Answer: (d) Wise

The solution is in Hindi. Read it online.

Q22. Answer: (c) Falsehood

Here the correct answer is Falsehood.

Key Points:-

• Here we need to use a word which is opposite to 'truthfulness'.

• It is so because the sentence is trying to give contrasting examples as to where does our honour and dignity lies and where doesn't.

• Truthfulness*(noun) -* the fact of being true; truth.

• For Example - We have had to judge the truthfulness of the evidence.

• Falsehood*(noun) -* the state of being untrue.

• For Example - The truth or falsehood of the many legends which surround her.

• Therefore, the correct answer for the blank is Falsehood.

Q23. Answer: (d) Has been

Here the correct answer is Has been.

Key Points:-

• In the above given sentence, 'has been' will be used in place of the blank.

• The sentence is in present perfect continuous tense.

• A present perfect continuous tense is used to express those actions that had begun in the past and are still in progress.

• The structure of Present perfect continuous is as follows:-

• Singular - Subject + has been + V1_(+ing) + since/for + Time being.

• For Example - Ram has been living here since 1997.

• Plural - Subject + have been + V_(1+ing) + since/for + Time being.

• For Example - They have been running since morning.

• We can't use 'were' with singular pronoun 'she'.

• And we can't use +ing verb with has/have.

• Thus, the correct answer to the blank is Has been.

Therefore, the correct sentence is She has been recovering in the hospital.

Q24. Answer: (b) 2

Here the correct answer is 2.

Key Points:-

• Here we are talking about the point of time in the past when people got to know about the coffee tree.

• So, it is an action of the past(a long time ago).

• Therefore, past tense of the verb will be used.

• 'Appears' is the first form(present tense) of the verb.

• Thus, 'appears' will be replaced by 'appeared'.

The correct sentence is The earliest credible evidence of coffee-drinking or knowledge of the coffee tree appeared in the middle of the fifteenth century as evident from the accounts of Ahmed al-Ghaffar in Yemen.

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Q25. Answer: (a) 1

Here the correct answer is 1.

Key Points:-

• In the above given sentence, the error is in part 1.

• It is so because instead of 'who' here we will just use 'whom'.

• One easy way to find out what to use is that If the question can be answered with 'he/she', the question must be asked with 'who'.

• But if the answer involves 'him/her', question must be asked with 'whom'.

• Here we can't say 'I was speaking with he'.

• Rather 'I was speaking with him' is correct.

• Therefore, 'who' will be replaced by 'whom'.

Thus, the correct sentence is To whom did you speak last night.

Q26. Answer: (a) Big : Small

As truth and lie are antonyms of each other,

Similarly,

Big and small are antonyms of each other.

Hence, ‘Big : Small’ is the correct answer.

Q27. Answer: (d) 36

The pattern that followed here is

Second Number = (First Number)²

25 = (5)²

Similarly

36 = (6)²

Hence, 36 is the right answer.

Q28. Answer: (c) TGA : SFZ

The pattern followed here is:-

FMR is related to ELQ as:-

Similarly,

TGA is related to SFA as:-

Hence, the correct answer is "SFZ".

Q29. Answer: (c) Run – Fast

Here, except Run – Fast, all others are antonym of each other.

Where, fast is an adjective of running.

Hence Run – Fast is the odd one out.

Q30. Answer: (c) 15 – 246

The Logic followed here is:-

(First number + 1)2 = Second number

1) In 11 – 144

(11 + 1)² = (12)² => 144

2) In 13 – 196

(13 + 1)² = (14)² => 196

3) In 15 – 246

(15 + 1)² = (16)² => 256 not 246

4) In 17 – 324

(17 + 1)² = (18)² => 324

Hence, the correct answer is "15 – 246".

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Q31. Answer: (c) GR

The pattern followed here is:-

1) HS

2) KP

3) GR

4) BY

As can be seen from the above that GR are the odd letter among the given alternatives.

Hence, the correct answer is "GR".

Q32. Answer: (d) 45132

As per the dictionary order,

4) Rather

5) Ratify

1) Read

3) Ready

2) Real

Hence, the correct answer is " 45132 ".

Q33. Answer: (b) 99

The pattern that followed here is:-

$9 + (2)^2 = 13$;

$13 + (3)^2 = 22$;

$22 + (4)^2 = 38$;

$38 + (5)^2 = 63$;

$63 + (6)^2 = 99$

Hence, the correct answer is "99".

Q34. Answer: (c) XUS

The pattern followed here is:-

Hence, is the correct answer "XUS".

Q35. Answer: (d) 36

1) Shweta is 11^(th) from the right end.

2) Mansi is 14^(th) to the left of Shweta, that means Mansi is (11 + 14) = 25^(th) from the right end.

3) If Mansi is 12^(th) from the left end then, then total number of girls in the row = 25 + 12 - 1 = 36

Hence, there are total 36 girls in the row.

Q36. Answer: (b) Action

Given word → Information

1) From → INFORMATION (all letter are present so, the word From can be formed)

2) Action → Letter 'C' is not present in the given word INFORMATION. So, the word cannot be formed.

3) Motion → INFORMATION (all letter are present so, the word From can be formed)

4) Norm: INFORMATION (all letter are present so, the word From can be formed)

Hence, the correct answer is "Action".

Q37. Answer: (d) 76384

The pattern followed here is:-

TRUMP is coded as 46321

T	R	U	M	P
4	6	3	2	1

GRAIN is coded as 76598

G	R	A	I	N

7	6	5	9	8

Similarly,

GRUNT is coded as 76384

G	R	U	N	T
7	6	3	8	4

Hence, the correct answer is "76384".

Q38. Answer: (d) 30

Given → 2 × 12 ÷ 32 - 5 + 4

SYMBOLS	•	÷	•	×
CODES	×	•	÷	•

After replacing the symbols with their codes, we get:-

New equation → 2 - 12 + 32 × 5 ÷ 4

Now, after applying BODMAS Rule, we get:-

2 - 12 + 32 × 5 ÷ 4

2 - 12 + 32 × 1.25

2 - 12 + 40

42 - 12

30

Hence, the correct answer is "30".

Q39. Answer: (c) • and ×

Given equation:-

14 + 8 ÷ 16 - 9 × 12 = 10

Checking options one by one by interchanging signs

1) + and ÷

After interchanging, new equation → 14 ÷ 8 + 16 – 9 × 12 = 10

By solving the equation using BODMAS Rule, we get:-

14 ÷ 8 + 16 – 9 × 12 = 10

1.75 + 16 – 9 × 12 = 10

1.75 + 16 – 108 = 10

17.75 - 108 = 10

90.25 ≠ 10

Left hand side is not equal to right hand side.

2) - and +

After interchanging, new equation → 14 – 8 ÷ 16 + 9 × 12 = 10

By solving the equation using BODMAS Rule, we get:-

14 – 8 ÷ 16 + 9 × 12 = 10

14 - 0.5 + 9 × 12 = 10

14 - 0.5 + 108 = 10

122 - 0.5 = 10

121.5 ≠ 10

Left hand side is not equal to right hand side.

3) + and ×

After interchanging, new equation → 14 – 8 ÷ 16 + 9 × 12 = 10

By solving the equation using BODMAS Rule, we get:-

14 × 8 ÷ 16 - 9 + 12 = 10

14 × 0.5 - 9 + 12 = 10

7 - 9 + 12 = 10

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19 - 9 = 10

10 = 10

Left hand side is equal to right hand side.

4) ÷ and ×

After interchanging, new equation → 14 + 8 × 16 - 9 ÷ 12 = 10

By solving the equation using BODMAS Rule, we get:-

14 + 8 × 16 - 9 ÷ 12 = 10

14 + 8 × 16 - 0.75 = 10

14 + 128 - 0.75 = 10

142 - 0.75 = 10

141.25 ≠ 10

Left hand side is not equal to right hand side.

Hence, the correct answer is "+ and × ".

Q40. Answer: (c) 18

The Logic followed here is:-

First number × Second number → Product of two number × (-1) = Result

In -3 % 1

-3 × 1 → -3 × (-1) = 3

In 3 % 6

3 × 6 → 18 × (-1) = -18

In -7 % 4

-7 × 4 → -28 × (-1) = 28

Similarly,

In -2 % 9

-2 × 9 → -18 × (-1) = 18

Hence, the correct answer is "18".

Q41. Answer: (b) CCABABAB

The pattern followed here is:-

A pair of letter C is moving toward the left end.

Table showing the pattern:-

A	**B**	**A**	**B**	**A**	**C**	**C**	**B**
A	B	A	B	C	C	A	B
A	B	A	C	C	B	A	B
A	B	C	C	A	B	A	B
A	C	C	B	A	B	A	B
C	C	A	B	A	B	A	B

Hence, the correct answer is "CCABABAB".

Q42. Answer: (a) 35 metres West

Given:-

1) A women pushes her trolley 20 meters through an alley which is going East.

2) then she turns to her left and walks 30 meters

3) then she turns West and walks another 30 meters

4) then she turns South and walks 30 meters

5) then she turns West and walks 25 meters

As can be seen clearly that the end point 35 meters West away with reference to her starting position.

Hence, the correct answer is "35 meters West".

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Q43. Answer: (d) Neither conclusion I nor conclusion II follows

The least possible venn diagram for the given statements is as shown below:-

Conclusions:

I. Some watches are ornaments → Doesn't follow (No direct relationship establish between watches and ornaments)

II. All ornaments are watches → Doesn't follow (No direct relationship establish between ornaments and watches)

Hence, the correct answer is "Neither conclusion I nor conclusion II follows".

Q44. Answer: (c) ED

Given:-

Rectangle represents Plumbers ; Circle represents Essayists ; Tringle represents Divers and Square represents Asians

Letter in rectangle represents Plumbers are → B A

Letter in Circle represents Essayists are → D C E B I

Letter in Triangle represents Divers are → H I F E

Letter in Square represents Asians → D E F G

Set of letters represents Asians who are Essayists are letters in Square and common with Circle, which are E and D.

Hence, the correct answer is "ED".

Q45. Answer: (c) CJY

The pattern followed here is:-

Hence, the correct answer is " CJY".

Q46. Answer: (d) 37

The pattern followed here is:-

Hence, the correct answer is "37".

Q47. Answer: (d) (25, 27 31)

The logic followed here is:-

(First number + 2) = Second number ; (Second number + 2) = Third number

1) (11, 13, 15)

11 + 2 = 13 ; 13 + 2 = 15

2) (15, 17, 19)

15 + 2 = 17 ; 17 + 2 = 19

3) (21, 23, 25)

21 + 2 = 23 ; 23 + 2 = 25

4) (25, 27, 31)

25 + 2 = 27 ; 27 + 2 = 29 not 31

Hence, the correct answer is "(25, 27, 31)".

Q48. Answer: (b) [figure]

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

Hence, the correct answer is "Option 2".

Q49. Answer: (c) [figure]

As per the given information,

1) The face of the dice having star is opposite to that of Cross symbol.

2) The face of the dice having Dot is opposite to that of circle.

3) The face of the dice having

is opposite to that of four square inscribed in a circle.

Hence, the correct answer is "Option 3"

Q50. Answer: (c) 99, 30, 24, 87

The pattern followed here is:-

A letter in the matrices is represented first by its row and then by its column.

Checking options one by one to identify the set for the word ‘SALT’

1) 34 → D ; 58 → X ; 12 → H ; 89 → X (so, the letter formed word DXHX)
2) 20 → K ; 97 → O ; 41 → D ; 89 → X (so, the letter formed word KODX)
3) 99 → S ; 30 → A ; 24 → L ; 87 → T (so, the letter formed word SALT)
4) 33 → C ; 88 → R ; 31 → J ; 89 → X (so, the letter formed word CRJX)33, 88, 31, 89 → C, R, J, X
Hence, the correct answer is "99, 30, 24, 87".

Q51. Answer: (b) 87

Concept used:
Prime numbers are natural numbers that are divisible by only 1 and the number itself.
The no. of factors of the prime number is 1 and the number itself.
1) Factors of 89 = 1 × 89
2) Factors of 87 = 3 × 29
3) Factors of 79 = 1 × 79
4) Factors of 97 = 1 × 97
Hence, the correct answer is "87".

Q52. Answer: (c) √4

Calculation:
√2 = 1.414
cbrt3 = 1.442
√4 = 2
cbrt5 = 1.709
So, largest number is √4

Q53. Answer: (b) 4459

Calculation:
13 × (49)^((3/2))
=> 13 × (7^2)^(3/2)
=> 13 × 73
=> 13 × 343 = 4459

Q54. Answer: (b) 0.347

Given:
a + b = 8
a – b = 2
Calculation:
a = [(a + b) + (a – b)]/2 = (8 + 2)/2 = 5
b = [(a + b) – (a - b)]/2 = (8 – 2)/2 = 3
Therefore $(a^2 + b^2)/(a^3 - b^3) = (5^2 + 3^2)/(5^3 - 3^3) = (25 + 9)/(125 - 27) = 34/98 = 0.3469 \approx 0.347$~~

Q55. Answer: (b) 10

Given:
Concept used:
Thales Theorem: Any line parallel to one side of a triangle divided the other two sides proportionally. i.e.,
AD/DB = AE/EC
Calculation:
AD/DB = 5/13
=> AD/DB = AE/EC
=> 5/13 = AE/26
Therefore AE = 10 cm

Q56. Answer: (a) 114

Given:
Diameter of the wheel = 154 cm

Radius of the wheel = 154/2 = 77 cm

Speed = 33km/h

Formula used:

Circumference of a circle = 2πr

where r → radius of a circle

Distance covered = speed × time

Calculation:

Distance covered in one revolution = Circumference of wheel

=> 2πr = 2 × 22/7 × 77 = 484 cm

Speed = 33 km/hr = 33 × 100000/60 = 55000 cm/min

Therefore Total Revolutions covered in one min

=> 55000/484 = 113.63 ≈ 114

Q57. Answer: (a) 1475

Calculation:

Let the two parts of no. is a and b and the no. is (a + b)

From the question,

30% of a = 20% of b + 25

=> 3/10 × a = 1/5 × b + 25

=> 3a = 2b + 250

Again, from the question

50% of b = 60% of a + 33.5

=> 1/2 × b = 3/5 × a + 25

=> 5b – 6a = 335

=> 5b – 2 × 3a = 335

=> 5b – 2 × (2b + 250) = 335

=> 5b – 4b – 500 = 335

=> b = 835

So, 3a = 2b + 250 = 2 × 835 + 250 = 1920

=> a = 640

Hence, a + b = 640 + 835 = 1475

Q58. Answer: (b) 5 : 3

Shortcut Trick

Vessel 1 capacity = 5 + 1 = 6 units, and Vessel 2 capacity = 5 + 7 = 12 units.

To make the capacities equal, multiply the ratio of Vessel 1 by 2 (since LCM is 12).

Adjusted Vessel 1 = 10 : 2, and Vessel 2 = 5 : 7.

Mix both vessels directly: Total Juice = 10 + 5 = 15, Total Water = 2 + 7 = 9.

Resultant ratio = 15 : 9 = 5 : 3.

Therefore The correct answer is 5 : 3.

Alternate Method

Given:

Ratio of juice and water in Vessel 1 = 5 : 1

Ratio of juice and water in Vessel 2 = 5 : 7

Both vessels are of equal capacity.

Formula / Concept Used:

When mixing two mixtures of equal quantity, make the sum of parts in both ratios equal by multiplying with appropriate integers before adding corresponding parts.

Vessel 1

J : W = 5 : 1 (Sum=6)

×2 → J : W = 10 : 2

Vessel 2

J : W = 5 : 7 (Sum=12)

×1 → J : W = 5 : 7

New Mixture

J = 10+5, W = 2+7

Ratio = 15 : 9 = 5 : 3

Calculations:

=> Sum of ratio parts in Vessel 1 = 5 + 1 = 6 units.

=> Sum of ratio parts in Vessel 2 = 5 + 7 = 12 units.

=> LCM of 6 and 12 is 12.

=> To make capacities equal, multiply Vessel 1's ratio by (12 ÷ 6) = 2.

=> Adjusted ratio of juice and water in Vessel 1 = (5 × 2) : (1 × 2) = 10 : 2

=> Adjusted ratio of juice and water in Vessel 2 = 5 : 7

=> Total juice in the new mixture = 10 + 5 = 15 units

=> Total water in the new mixture = 2 + 7 = 9 units

=> Required ratio of juice to water = 15 : 9

=> Simplifying the ratio by dividing by 3, we get 5 : 3.

Therefore The correct answer is 5 : 3.

Additional Information

Mixing Multiple Volumes

If mixtures are mixed in a specific volume ratio (e.g., 2 : 3), first equalize their capacities using the LCM, then multiply by the given volume ratio before adding the respective components together.

Alligation Method

When two mixtures are combined to form a final mixture, the rule of alligation can be applied on the fractional concentration of a single component (either juice or water) to easily find the required mixing ratio.

Replacement Method

When 'x' volume of a mixture is replaced by one of its pure components, the final concentration of the remaining component is given by Final = Initial × $(1 - x/V)^n$, where V is total volume and n is the number of replacements.

Q59. Answer: (d) 40 : 59

Given:

In 1st alloy, the ratio of aluminium and tin = 4 : 5

In 2nd alloy, the ratio of aluminium and tin = 4 : 7

Calculation:

Let the quantity of both the alloys are p kg

Total quantity of aluminium = (4p/9 + 4p/11) = 80p/99

Total quantity of tin = (5p/9 + 7p/11) = 118p/99

Therefore Required ratio = 80p/99 : 118p/99 = 80 : 118 = 40 : 59

Shortcut Trick1st alloy = 4 : 5 = 9 units }_(× 11)

In 2nd alloy = 4 : 7 = 11 units }_(× 9)

So, 1st alloy = 44 : 55

2nd alloy = 36 : 63

Therefore Required ratio = (44 + 36) : (55 + 63)

=> 80 : 118 = 40 : 59

Q60. Answer: (d) 25

Given:

The average weight of the last three bags = 18kg

The average weight of the first three bags = 19 kg

Weight of the last bag = 22kg

Formula used:

Average = Sum of observation ÷ No. of observation

Calculation:

Let four bags are p, q, r, s

Average weight of the last three bags (q + r + s) = (Total weight of q, r and s)/3
=> 18 = (Total weight of q, r and s)/3
Total weight of the last three bags (q + r + s) = 54 kg
Total weight of bags q + r = 54 – weight of bag s = 54 – 22 = 32
Average weight of the first three bags (p + q + r) = (Total weight of p, q and r)/3
=> 19 = (Total weight of p, q and r)/3
Total weight of the first three bags (p + q + r) = 57 kg
Therefore Weight of the first bag p = 57 – total weight of bags (q + r)
=> 57 – 32 = 25
Alternate MethodSum of weight of first three bags = 19 × 3 = 57kg
Sum of weight of all four bags = 57kg + 22kg = 79kg
Sum of weight of last three bag = 18 × 3 = 54kg
So, the weight of 1st bag = sum of weight of all four bags - Sum of weight of last three bag
=> 79kg - 54kg = 25kg

Q61. Answer: (a) 4400

Given:
Amount = Rs. 8000
Time = 4 years
Rate = 25%
Formula used:
Amount = Principal + S.I.
S.I. = (P × R × T)/100
where P → Principal
R → Rate of interest
T → Time period
Calculation:
S.I. = (P × R × T)/100
=> 8800 – P = (P × 25 × 4)/100
=> 8800 – P = P
=> 2P = 8800
Therefore P = 4400
Shortcut TrickLet P = 100%
Interest for 4 years = 25 × 4 = 100%
Amount = 200%
=> 200% = Rs.8800
=> 100% = Rs.4400

Q62. Answer: (c) 115.2

Given:
C.P of the article = Rs. 360
Profit % = 32%
Formula used:
Profit = {C.P × (Profit %)}/100
Calculation:
Therefore Profit = 360 × 32/100 = Rs. 115.2

Q63. Answer: (a) 342

Given:
C.P of a ball = Rs. 450
1^(st) discount % = 20%
2^(nd) discount % = 5%
Formula used:

S.P. after discount = M.P. × (100 - d1)/100 × (100 - d2)/100

Calculation:

Therefore S.P. = 450 × 80/100 × 95/100

=> 450 × 4/5 × 19/20

=> 18 × 19 = Rs. 342

Q64. Answer: (a) 17

Calculation:

√(2^6 + 15²)

=> √(64 + 225)

=> √289

=> 17

Therefore Option 1 is the correct answer.

Q65. Answer: (c) 18

Given:

Manpower M1 = 18

Time taken = 24 days

Calculation:

6 boys leave after 12 working days, then manpower for the first 12 days M2 = 18 and remaining manpower for D3 days ie. M3 = 18 – 6 = 12

M1 × D1 = M2 × D2+ M3 × D3

=> 18 × 24 = 18 × 12 + 12 × D3

=> 432 = 216 + 12 × D3

=> 12 × D3 = 216

Therefore D3 = 18 days

Q66. Answer: (a) 60

Shortcut Trick

Total distance to cross = 380 + 320 = 700 m

Relative speed (same direction) = 84 − 42 = 42 km/hr

Relative speed in m/s = 42 × (5 / 18) = 35 / 3 m/s

Time taken = Distance ÷ Relative Speed = 700 ÷ (35 / 3) = 60 seconds

Therefore The correct answer is 60 seconds.

Alternate Method

Given:

Length of the faster train (L1) = 380 m

Speed of the faster train (S1) = 84 km/hr

Length of the slower train (L2) = 320 m

Speed of the slower train (S2) = 42 km/hr

Formula Used:

Time taken to cross = Total Distance ÷ Relative Speed

Relative speed (same direction) = S1 − S2

Speed in m/s = Speed in km/hr × (5 / 18)

Train 2 (380m)

84 km/hr

Train 1 (320m)

42 km/hr

Relative Speed = 84 − 42 = 42 km/hr

Calculations:

=> Total Distance = L1 + L2

=> Total Distance = 380 + 320 = 700 m

=> Relative Speed = 84 − 42 = 42 km/hr

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=> Relative Speed in m/s = 42 × (5 / 18)

=> Relative Speed = 210 / 18 = 35 / 3 m/s

=> Time Taken = Total Distance ÷ Relative Speed

=> Time Taken = 700 ÷ (35 / 3)

=> Time Taken = (700 × 3) / 35

=> Time Taken = 20 × 3 = 60 seconds

Therefore The correct answer is 60 seconds.

Additional Information

Relative Speed (Same Direction)

When two objects travel in the same direction, their relative speed is the difference of their individual speeds (S1 − S2).

Relative Speed (Opposite Direction)

When two objects travel in opposite directions towards each other, their relative speed is the sum of their individual speeds (S1 + S2).

Conversion of Units

To convert km/hr to m/s, multiply the speed by 5/18. Conversely, to convert m/s to km/hr, multiply by 18/5.

Q67. Answer: (a) Taxes

Calculation:

As shown in the pie chart, the value of Tax is 450 which is 2nd highest. So answer = Tax

Q68. Answer: (a) 2000

Calculation:

Total expenditure = Expenditure on (Human Resource + Training + Travel + Outsourcing + Infrastructure + Electricity + Tax)

Total expenditure = 500 + 150 + 400 + 50 + 200 + 250 + 450 = 2000

Q69. Answer: (a) 27

Therefore The central angle of the sector representing Training is = 150/2000 × 360 = 27°

Q70. Answer: (b) 12.5%

Calculation:

Total expenditure = Expenditure on (Human Resource + Training + Travel + Outsourcing + Infrastructure + Electricity + Tax)

Total expenditure = 500 + 150 + 400 + 50 + 200 + 250 + 450 = 2000

Expenditure on Outsourcing and Infrastructure = 50 + 200 = 250

Therefore Required % = 250/2000 × 100 = 12.5%

Q71. Answer: (b) 82

Given:

The breadth of rectangle = 20 cm

The diagonal of the rectangle = 29 cm

Formula used:

Perimeter of rectangle = 2(l + b)

Area of the rectangle = l × b

where l → length and b → breadth

Diagonal of rectangle = $\sqrt{l^2 + b^2}$

Calculation:

D = 29 cm, b = 20 cm and l = ?

$D^2 = l2 + b2$

=> $29^2 = l^2 + 20^2$

=> $l^2 = 841 – 400$

=> $l^2 = 441$

=> l = 21

Therefore Perimeter of rectangle = 2(l + b) = 2(21 + 20) = 82 cm

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Q72. Answer: (a) 72

Given:

No. of sides of a polygon = 5

Formula used:

Each exterior angle of polygon having sides n = 360/n

Calculation:

Number of sides, n = 5

Therefore Exterior angle = (360°)/n = (360°)/5 = 72°

Q73. Answer: (a) 3.5

Given:

The total surface area of a cube = 73.5 cm2

Formula used:

Total surface area of a cube = $6a^2$

where a → side of a cube

Calculation:

Total surface area of cube = 73.5 cm^2

=> $6a^2 = 73.5$

=> $a^2 = 12.25$

=> a = 3.5 cm

Therefore The side of the cube = 3.5 cm

Q74. Answer: (c) -5/3

Concept used:

Calculation:

1/3 – cosec 30°

= 1/3 – 2

= (1 – 6) /3

= -5/3

Q75. Answer: (a) 5

Given:

angle E = 90°

sec D = 25/7

DE = 1.4 cm

DF = ?

Concept used:

sec θ = h/b

$h^2 = p^2 + b^2$

where h → hypotenuse

b → base

p → perpendicular

Calculation:

Sec D = 25/7 = DF/DE

=> DF/1.4 = 25/7

Therefore DF = 5 cm

Q76. Answer: (a) Electricity

The correct answer is Electricity.

Key Points

• Tertiary sector also known as service sector is one among the three type of economic sectors in a developed economy, the other two being Primary (extraction of raw materials) and secondary (manufacturing) sectors.

• Tertiary sector is concerned with the provision of services to other businesses and to final consumers too. Apart from electricity,

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other three options i.e. Business services, transport and trade come under tertiary sector.

• Electricity doesn't fall into the category of tertiary sector because it is a joint collaboration between government with the states as they both share the funding part by creating overall economic growth.

Q77. Answer: (d) All options are correct.

The correct answer is All options are correct.

Key Points

• Money or currency in India consists of paper currency (bank notes) and metallic coins.

• Currency in the form of bank notes are generally issued in the denomination of Rs. 10, Rs. 20, Rs. 50, Rs. 100, Rs. 200, Rs. 2000; whereas metallic coins also called 'paise' are issued in one, two, five and ten-rupee coins.

• Current deposit:-

• It refers to cash(money) deposits done to different customer accounts by banking institutions for the purpose of sake-keeping the money.

• Therefore, option 4 is the answer which says that all the options above (paper currency, current deposits, and Metallic coins) are correct and constitutes of Indian currency.

Q78. Answer: (c) Tin

The correct answer is Tin

Key Points

• The Gupta period is famously recalled as the "classical age" or "golden age" of India. The empire was in existence from the mid-to-late 3rd century CE to 590 CE

• In the later Gupta period, silver and gold coins were one of the most significant items used for the purpose of trade and commerce. Chandragupta II was the first Gupta king who won silver coins by defeating the Saka Satraps of Ujjain.

• Not only silver and gold coins but the Gupta empire was also known for minting copper coins. Hence, Tin is the only item that was not exportable in the Gupta period

Q79. Answer: (b) Madras Session (1927)

The correct answer is Madras Session (1927).

Key Points

• Simon Commission:-

• It was appointed in November 1927.

• The Simon Commission was a group of 7 MPs who were sent to India in 1928

• Simon commission was boycotted by the Indian National Congress at its Madras session in the year 1927.

• The boycott of the commission was done to challenge Lord Birken head, then-Secretary of State for India, in order to draft a constitution that would be acceptable to the general public of India.

• Madras Session, 1927:

• Congress (42nd Session) was held in 1927 in Madras.

• It was here that for the first time the Congress called for Purna Swaraj, or complete freedom, with Jawaharlal Nehru moving the Independence Resolution.

• The Bardoli Satyagraha that took place in the state of Gujarat, India during the period of the British Raj, was a major episode of civil disobedience and revolt in the Indian Independence Movement.

• It was led by Vallabhbhai Patel.

• In 1925, the taluka of Bardoli in Gujarat suffered from floods and famine, causing crop production to suffer and leaving farmers facing great financial troubles.

• The British Government has also raised the tax rate by 30% without paying any heed to the occurrence of calamities.

Additional Information

• Calcutta Convention (1928):-

• Motilal Nehru was elected president of INC again in 1928 at its Calcutta (now Kolkata) session.

• All India Youth Congress was formed.

• Surat Session (1907):-

• The 1907 Surat session was popularly known as Surat Split as the Congress split into two groups. i.e. Extremists and Moderates.

• It was presided by Moderate leader RasBehari Ghosh.

• Mainly there was an ideological difference between the two groups.

• The main objectives placed by the extremist were

• Demand for the resolution of Swaraj.
• Lala Lajpat Rai to be made the President of INC.
• These two demands were not accepted by the moderates thus initiating the split.
• The Surat Split was a victory of the British policy of Divide and Rule.
• In 1916, Lucknow session both groups reunited again.
• Nagpur session (1920):-
• At the Congress Session in December 1920 held at Nagpur:
• The program of non-cooperation was formally endorsed.
• Congress declared its objective as attaining swaraj through peaceful and legitimate means.
• Some important organizational changes were made:
• A congress working committee of 15 members was set up to lead the Congress.
• It was decided to organize provincial committees on a linguistic basis.
• Ward committees were organized.
• The entry fee was reduced to four annas.
• Gandhi declared that if the non-cooperation programme was implemented, swaraj would be attained within a year.
• The non-cooperation movement was formally launched on 31 August 1920.

Q80. Answer: (b) SIMA

The correct answer is SIMA.

Key Points

• SIMA:-
• It is also known as the ‘mantle’ is the second layer of the Earth's three concentric layers, the others two being SIAL (crust) and NIFE (core).
• The major constituent elements of SIMA (second layer) are magnesium and silicon.

Additional Information

• SIAL:-
• It is the outermost layer of the earth's crust and constitutes two major elements namely, Silica and Aluminium. Whereas, the innermost core of the earth.
• NIFE:-
• It is mainly composed of nickel and Iron.

Q81. Answer: (c) Coral origin

The correct answer is the Coral origin

Key Points

• Lakshadweep:-
• It is the island group of India having coral origin in the Arabian Sea.
• Lakshadweep islands, the only coral island chain in India, were formed by the collective accumulation of coral on the volcanic tops of the Indian ocean ridge.
• The coral origins are kind of coral atolls which has a slight round ring shape.

Q82. Answer: (a) Kathakali

The correct answer is Kathakali.

Key Points

• Kathakali:-
• It is a major form of classical Indian dance.
• It is a blend of dance, music, and acting and dramatizes stories, which are mostly adapted from Indian epics.
• It is distinguished by the elaborately colorful make-up, costumes, and face masks that the traditionally male actor-dancers wear.
• The dancers enact the roles (kings, gods, demons, etc.) of the stories with particular make-up and costume, the vocalists narrate the legend and the percussionists play the musical instruments.
• Other dances of Kerala- Mohiniyattam, Thirvathirakali, Kolkali, Ottamthullal, Koodiyattam, Chakyar Koothu, Oppana.

Additional Information

Dance Forms	State of Origin
Kathakali	Kerala

Kuchipudi	Andhra Pradesh (Telangana)
Odissi	Odisha
Manipuri	Manipur
Sattriya	Assam

Q83. Answer: (b) Ecuador

• The Group of 77, which is also called G-77, is a coalition of 134 developing countries, work towards promoting members' collective economic interests.

• Ecuador, north-western South America, hosted G-77 summit in the year 2017.

• Indonesia hosted the G-77 summit in 2016 and Argentina in the year 2011.

Q84. Answer: (a) Laxman Pai

• The Padma Bhushan is the third highest civilian award given by the Government of India to honour civilians for “distinguished service of a high order” without any distinction of race, occupation, position or sex.

• Former principal of the Goa College of Art, Shri Laxman Pai, a famous Indian artist received Padma Bhushan for the year 2018 in the field of Art-Painting.

Padma Bhushan Recipient	Field
Laxman Pai	Painting
Arvind Parikh	Music
Sharda Sinha	Music
Ramachandran Nagaswamy	Archaelogy

Q85. Answer: (c) in the 1960s

The correct answer is in the 1960s.

Key Points

• Pakistan gained independence in the year 1947 and the southern port city of Karachi was its first national capital.

• Islamabad was built in the 1960s as a forward capital for many reasons. It became the capital of Pakistan on 14^(th) August 1967.

• The city of Islamabad was built to replace Karachi as Pakistan's capital. However, the capital was not directly replaced from Karachi to Islamabad but, was initially moved from Karachi to Rawalpindi and then later to Islamabad.

Q86. Answer: (a) Only I and II

The correct answer is Only I and II.

Important PointsJohn Dalton Postulates about atoms.

• All matter is made up of tiny, indivisible particles called atoms.

• All atoms of a specific element are identical in mass, size, and other properties. However, atoms of different elements exhibit different properties and vary in mass and size.

• Atoms can neither be created nor destroyed. Furthermore, atoms cannot be divided into smaller particles.

• Atoms of different elements can combine with each other in fixed whole-number ratios in order to form compounds.

• Atoms can be rearranged, combined, or separated in chemical reactions

Key Points

• Atomic theory by Dalton:-

• It proposed that all matter is composed of very tiny particles who he named ‘atoms’ and they consist of non-destructible and indivisible building blocks.

• Dalton's atomic theory also proposed that all atoms of an element are identical in nature and different elements vary in size, mass and chemical properties. So, the correct answer is option 1 which says that first and second statements are correct.

Q87. Answer: (b) Only I and III

The correct answer is Only I and III

Key Points

• Combination reaction:-

• It is also termed a synthesis reaction is about two or more reactants or substances combining with each other to form a new product.

• Rust, which is a result of a combination reaction of oxygen and iron could serve as one of the examples of a combination reaction.

• As there can only be a single product as a result of a combination reaction, the second statement among the options is incorrect.

Q88. Answer: (c) Chief Election Commissioner

The correct answer is Chief Election Commissioner.

• The tenure of the 'pleasure of President' is covered by an official, who holds the seat and perform the necessary duties as prescribed by the constitution of India.

• During the pleasure of the President of India, following officials take the charge:

• Attorney General of India

• Civil Services Personal

• Council of Ministers

• Governors of the states

• Prime Minister

• Following are the officials which do NOT take the charge during President's pleasure time are:

• The Chairman and members of UPSC

• Chief Election Commissioner

Q89. Answer: (a) Governor of State

• Advocate General, the primary lawyer in the supreme court of India, is a legal officer who represents a state in legal matters and provides legal advice to the government.

• The Governor of each state appoints the Advocate General who is qualified enough to be appointed as a Judge of a High Court.

• Office of ADVOCATE GENERAL is provided under article 165 of the constitution.

• The governor of that particular state appoints AG on the recommendation of state govt.

• He is the highest law officer in the state and gives legal advice to the government.

• His term is not fixed in the constitution, he holds office on the pleasure of the government, it means he can be removed from the office at any time.

• He is not a public servant, thus not debarred to private legal practice.

Q90. Answer: (b) Basic

The correct answer is Basic.

Key Points

• Pancreatic juice:-

• It is a liquid that is secreted by the pancreas and contains a variety of enzymes including chymotrypsin, elastase, carboxypeptidase, trypsinogen, nucleases, amylase, and pancreatic lipase. It helps in proper digestion.

• They are alkaline/basic in nature due to the high concentration of bicarbonate ions. The bicarbonate is useful in neutralizing the acidic gastric acid which allows for effective enzymic changes.

Q91. Answer: (b) fossils

The correct answer is fossils.

Key Points

• The remains or traces of living things which are preserved from past age or thousands of years ago are termed Fossils.

• Shells, bones, teeth, and stone imprints of animals are a few examples of fossils.

• There are various kinds of Fossils, some of them are:

• Mould Fossils

• Cast Fossils

• Trace Fossils

• Petrified Fossils

Q92. Answer: (b) Jyoti

The correct answer is Jyoti.

Key Points

• UJALA, which is an acronym for 'Unnat Jyoti by Affordable LEDs for All', is a concept of replacing incandescent lamps with LED

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bulbs.

• The National LED programme is implemented by Efficiency Services Limited (EESL) and was launched by Prime Minister Narendra Modi in January 2015.

• The concept is successfully running and implemented across 12 states of India with the hope of getting more states involved in the near future.

Q93. Answer: (d) GOLD and ICON

• NASA will launch GOLD and ICON to explore the ionosphere.

• GOLD will be launched in geostationary orbit over the western hemisphere, about 35,398 km above earth whereas ICON will be in low-Earth orbit, at 560 km above Earth which will be like a close-up camera.

• The goal of the mission is to measure how the upper atmosphere changes in response to the hurricane and the geomagnetic storms.

Q94. Answer: (a) Rs. 72,500 crore

The correct answer is Rs. 72,500 crore.

Key Points

• The budget estimate set by the Government was of Rs. 72,500 crore, the disinvestment target which is said to be the highest by any government in India outdoing Rs. 69,500 crores in 2015-2016.

• The set target is a 60% increase over the 2016-2017 target of Rs. 56,500.

Q95. Answer: (a) Collection of statistics Act, 2008

The correct answer is the Collection of Statistics Act, 2008.

Key Points

• Collection of statistics Act, 2008 facilitates the collection of statistics related to the social, economic, demographic, scientific and environmental aspects by the central and the state government.

• The statistic officers are appointed who collect information and also contain the provisions to ensure the safety of the information.

• This act allows the Union Government to determine the manner in which the information collected can be used for statistical purposes.

Q96. Answer: (a) 40

• Heat is the form of energy which is transferred from hot substances to the cold ones.

• The answer is 40 as heat is calculated by multiplying the power (20 W) with the time (2 seconds).

Q97. Answer: (d) non-uniform speed

The correct answer is non-uniform speed.

Explanation;

Non-uniform Motion:

• It is a motion in which the velocity varies with time. Here acceleration of the motion will not be 0.

• The variation of the distance h with the time t for the uniform acceleration f and constant initial speed u can be explained by,

• The above is representing the parabolic variation of distance h with the time t.

• The graph of distance-time determines the change in the object's position.

• A straight line is a curve with a constant slope. The graph of a non-uniform motion or speed is a distance-time curved graph.

Q98. Answer: (c) eye

The correct answer is eye.

Key Points

• The Eye of the storm is at the centre of strong cyclones. It is a region of mostly calm weather.

• The eye region is usually between 20-50 km in diameter.

• The eye is the focal point of the hurricane around which the rest of the storm rotates.

Explanation:

• Cyclone:

• A cyclone is a large air mass that rotates around a strong centre of low atmospheric pressure.

• Cyclones rotate clockwise in the Southern Hemisphere and anti-clockwise in the Northern Hemisphere.

• Cyclones are rapid inward air circulation around a low-pressure area.

• Factors like wind speed, wind direction, temperature and humidity contribute to the development of cyclones.

• Cyclone/Strom is termed in different names in different continents -

1. Cyclone is a chain of events that ends with the formation of a very low-pressure system with very high-speed winds revolving around it.

2. The centre of a cyclone is a calm area. It is called the eye of the storm. A large cyclone is a violently rotating mass of air in the atmosphere, 10 to 15 km high.

3. A cyclone is known by different names in different parts of the world. It is called a 'hurricane' in the American continent. In the Philippines and Japan, it is called a 'typhoon'.

Q99. Answer: (a) Only B

The correct answer is Only B.

Key Points

• Tennis 2017 French Open Men's Singles.

• Rafael Nadal defeated Stan Wawrinka in the Tennis 2017 French Open Men's Singles.

• He won the 10th French men's Tennis Open title.

• He became the 1st man in history to win the same major 10 times. Hence, Statement A is incorrect.

• 2018 IPL auctions.

• Steve Smith was retained by Rajasthan Royale for the sum of $2.4 Million.

• In 2018, Steve Smith was banned by Cricket Australia for his involvement in a ball-tampering incident, due to which he stepped down from the captaincy of Rajasthan Royals. Hence, Statement B is correct.

• Jelena Ostapenko (Latvia) won the French Open Women's Singles Title in 2017. Hence, Statement C is incorrect

Q100. Answer: (d) Print Layout

The correct answer is Print Layout.

Key Points

• The print layout will help to show what the document will look like when it is actually printed.

• In the print layout, we can see the page breaks and the other features as well as the basic paragraph formatting and the basic character.

• It is also helpful to see where the text or paragraph ends on the page or breaks over two pages.

Additional Information

• Web layout

• Web layout view enables us to view our document as it would appear in a web browser such as Internet Explorer.

• In the Web layout view, the text appears to fit the window instead of the page margins.

• Background colours and images inserted in the document are also visible.

• Reading view is optimized for reading a document on the computer screen and you also have the option of seeing the document as it would appear on a printed page.

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