SSC CHSL Previous Paper 15 (Held On: 10 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, 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'.

Although he (1)/ studied regularly (2)/his marks didn't improving. (3)/No error (4)

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

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

Buddhism originated in Ancient India around the 6th and 4th (1) / centuries BC, from where it spread through most (2)/ of Asia, and then it declines in India during the Middle Ages. (3)/ No error (4)

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

Q3. 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.

Is the lipstick natural or _____?

(a) Artificial
(b) Daydream
(c) Unreal
(d) Vulnerable

Q4. 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.

In the court of god we will be judged by our action and _____.

(a) Steeds
(b) Bleed
(c) Gleeds
(d) Deeds

Q5. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Laconic

(a) Brief
(b) Verbose
(c) Lengthy

(d) Unabridged

Q6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Propitious

(a) Luxurious
(b) Pitiful
(c) Sad
(d) Hopeful

Q7. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Mellow

(a) Ripe
(b) Mature
(c) Rich
(d) Hard

Q8. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Exhume

(a) Dig
(b) Reveal
(c) Hide
(d) Resurrect

Q9. Rearrange the parts of the sentence in correct order.

For ages,

P : the Indian psyche has been

Q : geared towards devoting one's life

R : to the welfare of all

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

Q10. 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.

My cousin has written this essay.

(a) This essay has been written by my cousin.
(b) This essay was written by my cousin.
(c) This essay has been wrote by my cousin.
(d) My cousin wrote this essay.

Q11. 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.

"Don't you know the way to home?" asked the lady.

(a) The lady asked why he didn't know the way to home.
(b) The lady asked whether he knew the way to home.
(c) The lady asked about the way to home.
(d) The lady asked why he doesn't know the way to home.

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Q12. 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) Foreign
(b) Forien
(c) Foriegn
(d) Foreing

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.

It is a proverbial _____, that every one makes his own destiny; and _____ is usually interpreted, that every one, by his wise __ unwise conduct, prepares good or evil for himself: but we may also understand it, that whatever it be that he receives _____ the hand of Providence, he may so accommodate _____ to it, that he will find his lot good for him, however much may seem to others to be wanting.

Q13. It is a proverbial _____, that every one makes

(a) Say
(b) Said
(c) Saying
(d) Says

Q14. own destiny; and _____ is usually interpreted,

(a) These
(b) This
(c) Those
(d) Here

Q15. by his wise _____ unwise conduct,

(a) Or
(b) But also
(c) But
(d) Nor

Q16. that he receives _____ the hand of Providence,

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

Q17. so accommodate _____ to it, that he

(a) He
(b) His
(c) Himself
(d) Him

Q18. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Come true

(a) Pray hard for your wishes.
(b) To happen in the way you had hoped.
(c) Day dream about success.
(d) Be finally proved that you were right.

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

Great minds think alike

(a) When an evil plan is hatched criminals agree.
(b) Said to those people who don't like each other to make them agree.
(c) Said when two people have the same opinion or make the same choice.
(d) Intelligent people will think of plans to which everybody will say yes.

Q20. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

An urgent need or demand

(a) Vindication
(b) Satiety
(c) Redress
(d) Exigency

Q21. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Believe in and follow the practices of

(a) Atheist
(b) Pagan
(c) Agnostic
(d) Adhere

Q22. 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".

We have lost the magic of living, and (is mired) in numbers.

(a) was mired
(b) to mire
(c) are mired
(d) No improvement

Q23. 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 is something in a train journey that (was fascinated) a lot of people and I am one of them.

(a) Has fascinated
(b) Have fascinated
(c) Has fascinate
(d) No improvement

Q24. 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.

On the speech front, we

A - can all do something individually

B - idiom of communication

C - if we change our

(a) ABC
(b) CBA
(c) ACB
(d) CAB

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Q25. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Monopoly
(b) Iliterrate
(c) Monnopoly
(d) Monnopolly

GENERAL INTELLIGENCE

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

Square : Four ? ? : ?

(a) Triangle : Five
(b) Rectangle : Four
(c) Octagon : Seven
(d) Circle : Five

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

18 : 11 ? ? : ?

(a) 33 : 29
(b) 36 : 29
(c) 41 : 33
(d) 49 : 41

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

MPR : LOQ ? KST : ?

(a) JPQ
(b) LRS
(c) JPT
(d) JRS

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

(a) Lungs
(b) Nose
(c) Heart
(d) Kidney

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

(a) 13 – 26
(b) 15 – 30
(c) 17 – 34
(d) 19 – 31

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

(a) TQNK
(b) URNM
(c) VSPM
(d) LIFC

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

1. Attempt
2. Alert
3. Attach

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4. Assistant

5. Assume

(a) 13452
(b) 24531
(c) 42531
(d) 53412

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

13, 17, 26, 42, 67, ?

(a) 99
(b) 90
(c) 103
(d) 94

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

FN, KL, PJ, ?, ZF

(a) SH
(b) RG
(c) VG
(d) UH

Q35. In a row, Mohini is at 23^(rd) position from left and 37^(th) position from right. How many girls are there in the row?

(a) 60
(b) 61
(c) 59
(d) 58

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

GRANDFATHER

(a) RAND
(b) AND
(c) GRADE
(d) FAITH

Q37. In a certain code language, “MUTE” is written as “60” and “TYRE” is written as “69”. How is “HYPE” written in that code language?

(a) 55
(b) 60
(c) 54
(d) 52

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

AMJ, DPM, GSP, ?, MYV

(a) JUT
(b) KVT
(c) JVS
(d) KUS

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

119, 121, 124, 128, ?, 139

(a) 130
(b) 133

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(c) 131
(d) 132

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

(a) (113, 109, 105)
(b) (142, 137, 133)
(c) (197, 193, 189)
(d) (162, 158, 154)

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

23 × 20 ÷ 35 - 2 + 10 = ?

(a) 19
(b) 10
(c) 16
(d) 20

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

17 - 20 ÷ 25 × 6 + 10 = 12

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

Q43. If 9 * 4 = 26, 4 * 4 = 16 and 3 * 6 = 18, then find the value of 5 * 2 = ?

(a) 13
(b) 14
(c) 17
(d) 26

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

RQPQPQPQ, PSPQPQPQ, PQRQPQPQ, PQPSPQPQ, PQPQRQPQ, _____.

(a) PQPQPQPQ
(b) RQPQPQPQ
(c) PQPQPSPQ
(d) PSPQPQPQ

Q45. Two pickup trucks X and Y start from the same place. Truck X travels in East for 15 km and then turns right and travels 8 km. In the meanwhile truck Y travels 7 km in west, then 3 km north, then 2 km west, and then it turns left and travels 11 km. Where is truck Y with respect to truck X?

(a) 6 km West
(b) 24 km East
(c) 6 km East
(d) 24 km West

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

Statement I: All magazines are papers

Statement II: Some tabloids are magazines

Conclusion I: Some papers are tabloids

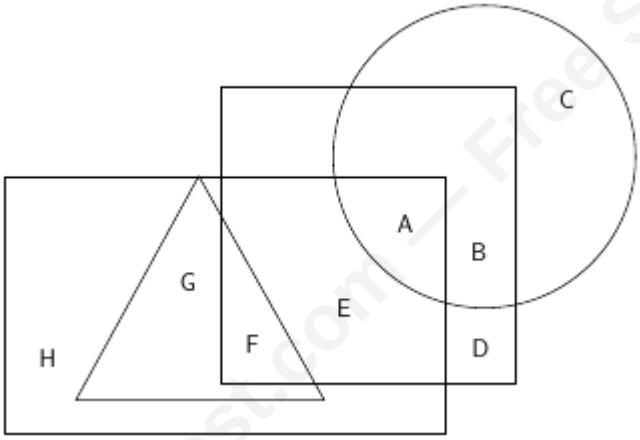
Conclusion II: Some tabloids are papers

(a) Only conclusion I follow

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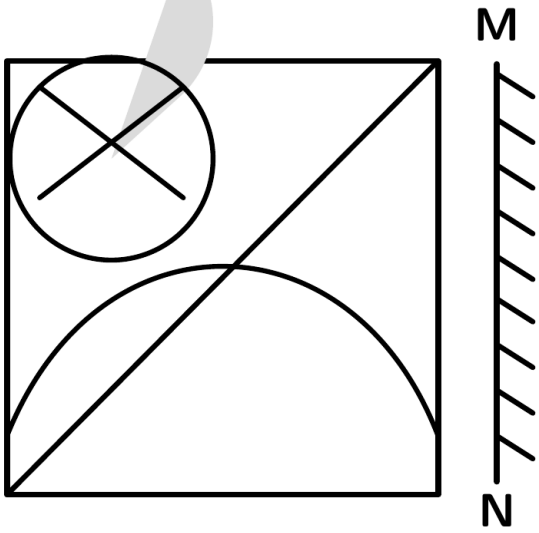
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

Q47. In the following figure, rectangle represents Mechanics, circle represents illustrators, triangle represents Singers and square represents Mothers. Which set of letters represents illustrators who are not singers?

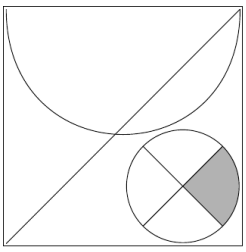


(a) FG
(b) DE
(c) BC
(d) ABC

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

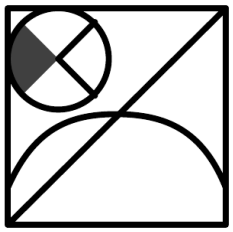


(a)

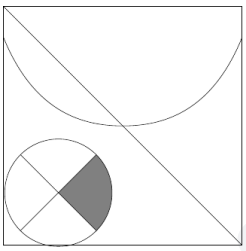


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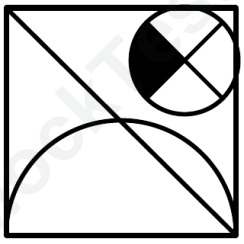
(b)



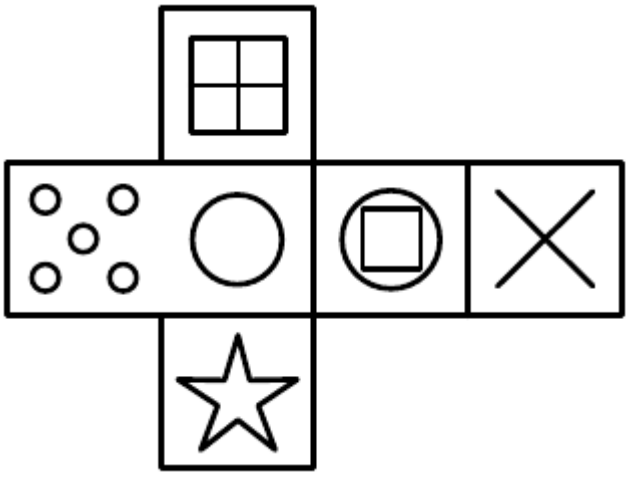
(c)



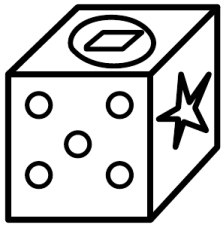
(d)



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

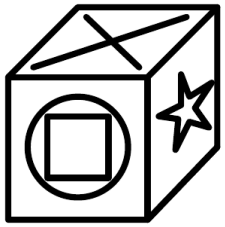


(a)

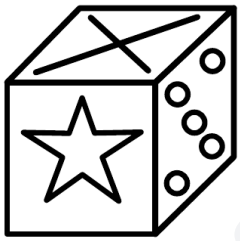


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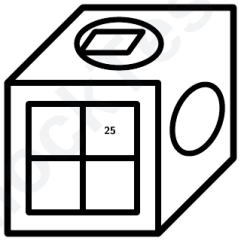
(b)



(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 'J' can be represented by 23, 41 etc and 'R' can be represented by 65, 57 etc similarly, you have to identify the set for the word 'DOPE'.

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

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

(a) 41, 89, 10, 87
(b) 32, 96, 13, 69
(c) 32, 58, 77, 30

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(d) 34, 96, 32, 57

QUANTITATIVE APTITUDE

Q51. If the value of √5 = 2.236 then calculate the value of √405 - 1/2√80 - √125

(a) 2.236
(b) 4.472
(c) 1.118
(d) 8.994

Q52. 1595 is the sum of the square of three consecutive odd numbers. Find the numbers

(a) 19, 21, 23
(b) 17, 19, 21
(c) 21, 23, 25
(d) 23, 25, 27

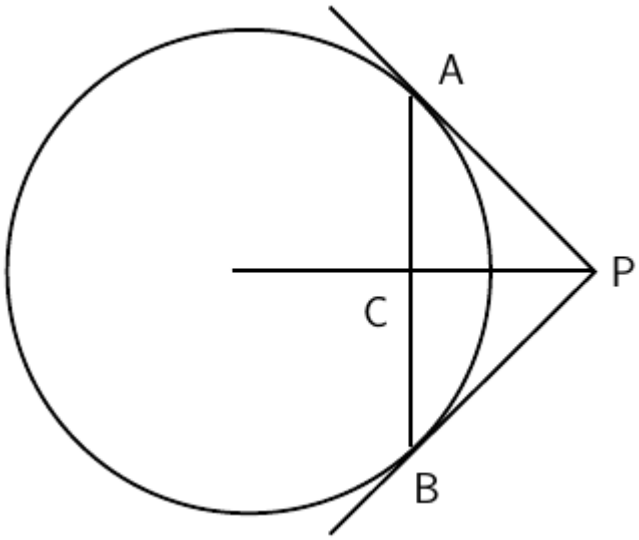
Q53. Determine the value of 'x' in x = 1/(1 + √2) + 1/(√2 + √3) + 1/(√3 + 2)

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

Q54. What is the value of $z^2 + 1/(z^2)$ when $z = 5 + 2\sqrt{6}$?

(a) 49
(b) 50
(c) 98
(d) 100

Q55. The figure shown below consist of the tangents at the extremities of any chord. Choose the correct option given below.



(a) angle PAC = angle PBC
(b) angle APC = angle BPC
(c) ΔPAC ≅ ΔPBC
(d) All option are correct

Q56. Calculate the angle subtended by the chord at the point on the major arc if the radius and the chord of the circle are equal in length.

(a) 30°
(b) 120°

(c) 200°
(d) 300°

Q57. If U = 450 and V = 585, then V is how much percentage more than U?
(a) 130
(b) 23.07
(c) 25
(d) 30

Q58. The ratio of two positive numbers is 3 : 7. If their product is 1344, then what is the sum of both the numbers?
(a) 80
(b) 60
(c) 30
(d) 168

Q59. P and Q invested some money in a business in the ratio of 4 : 7 respectively. After 6 months P withdraws his capital. If they receive profits in the ratio of 4 : 21, then for how many months did Q invest in the business?
(a) 12
(b) 5
(c) 18
(d) 21

Q60. A boy buys 5 pencils at Rs. 3 each, 3 erasers at Rs. 2 each and 3 sharpeners at Rs. 5 each. What is the average expenditure (in Rs) per article?
(a) 3.27
(b) 3.5
(c) 4
(d) 5

Q61. An equal sum is invested in two different schemes. One scheme gives simple interest and the other gives compound interest (annual compounding). The total interest obtained after 2 years from both the schemes together is Rs. 2090. If both the schemes have 18% per annum interest rate, then what is the first year interest (in Rs) of simple interest scheme?
(a) 1000
(b) 500
(c) 545
(d) 1045

Q62. Two pens are bought at the rate of Rs 20 each. Shopkeeper sells one at the profit of 25% and other at the loss of 25%. What will be the total profit or loss in the whole transaction?
(a) No profit/loss
(b) Profit of Rs. 1
(c) Loss of Rs. 1
(d) Loss of Rs. 2

Q63. A merchant marks the price of his articles 30% above the cost price. He gives some discount on it and earns a profit of 13.75%. What is the discount percentage?
(a) 12.5
(b) 13.75
(c) 16.25
(d) 10.25

Q64. What is the value of cbrt1331 + √729 - cbrt512?
(a) 15
(b) 20
(c) 30

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(d) 23

Q65. Manish is four times as efficient as Puneet. Manish takes 90 days less than Puneet to complete a book. If both of them work together, then in how many days the book will be completed?

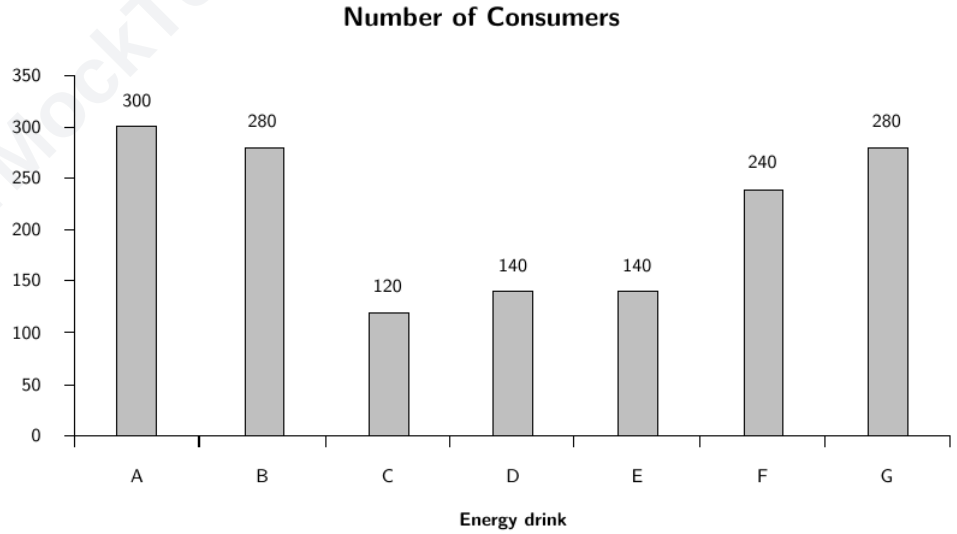
(a) 28
(b) 25
(c) 24
(d) 30

Q66. A man starts walking from a place X and reaches the place Y in 12 hours. He travels 3/7th of the total distance at the speed of 3 km/hr and the remaining distance at the speed of 4 km/hr. What is the distance (in km) between X and Y?

(a) 28
(b) 36
(c) 40
(d) 42

Directions

Direction: The bar graph shows results of a survey carried out within a health club. The members of the club were asked which energy drink they consumed? Study the diagram and answer the following question.



Q67. Which energy drink was consumed the least?

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

Q68. What is the ratio of consumers of energy drink C to consumers of energy drink G?

(a) 7 : 3
(b) 3 : 7
(c) 5 : 9
(d) 9 : 5

Q69. Consumers of drink B are greater than that of drink E by _____

(a) 50%
(b) 100%
(c) 200%
(d) 150%

Q70. If 40% of consumers of drink C start consuming drink F then the consumers of drink F would increase

(a) 20%
(b) 40%
(c) 48%
(d) 24%

Q71. The area of an equilateral triangle is $25\sqrt{3}$ cm². Find its side (in cm).

(a) 10
(b) 5
(c) 20
(d) 30

Q72. Calculate the area (in cm²) of a circle of radius 17.5 cm.

(a) 1925
(b) 962.5
(c) 809.5
(d) 1619

Q73. Find the total surface area (in cm²) of a right circular cone of diameter 21 cm and slant height 11 cm.

(a) 467.5
(b) 384
(c) 724
(d) 709.5

Q74. What is the value of (cosec 45° + √3/2) ?

(a) 5/6
(b) (4 + √3)/2√3
(c) (2√2 + √3)/2
(d) 3√3/2

Q75. In ΔABC measure of angle B is 90°. If tan A = 15/8, and AB = 0.8cm, then what is the length (in cm) of side AC?

(a) 1.7
(b) 1.5
(c) 2
(d) 2.5

GENERAL AWARENESS

Q76. "Residex Index" is associated with which of these?

(a) Share Prices
(b) Mutual Fund Prices
(c) Price Inflation Index
(d) Housing Prices

Q77. For internal financing of Five Year Plans, the Government depends on _____.

(a) Taxation and public borrowing
(b) Taxation, public borrowing and deficit financing
(c) Only taxation
(d) Public borrowing and deficit financing

Q78. In which language were the Buddhist literary works generally written?

(a) Prakrit
(b) Pali
(c) Nepalese
(d) Sanskrit

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Q79. Which of the following rebellion/agitation did NOT happen in the area of Bengal?

(a) Sannyasi Rebellion
(b) Chuar Rebellion
(c) Pagal Panthi rebellion
(d) Baghera Rebellion

Q80. Which of the following cities is closest to the Equator?

(a) Colombo
(b) Jakarta
(c) Manila
(d) Singapore

Q81. Which of the following states has NOT met the boundary with Mizoram?

(a) Nagaland
(b) Tripura
(c) Assam
(d) All of the above

Q82. Who among the following is NOT a famous dancer of Bharatanatyam?

(a) Rukmini Devi Arundale
(b) T. Balasaraswati
(c) Yamini Krishnamurthy
(d) Jhaveri sisters

Q83. At which place the first BIMSTEC Disaster Management Exercise 2017 (BIMSTEC DMEx 2017), held in October 2017?

(a) Dhaka
(b) Colombo
(c) Delhi
(d) Male

Q84. Who among the following is a recipient of the first Lifetime Achievement award initiated by the Badminton Association of India?

(a) G.S.S.V. Prasad
(b) Nandu Patekar
(c) P. Gopichand
(d) Prakash Padukone

Q85. Most of population in Sri Lanka follows _____.

(a) Hinduism
(b) Islam
(c) Christianity
(d) Buddhism

Q86. What is the relative molecular mass of water?

(a) 8 u
(b) 9 u
(c) 16 u
(d) 18 u

Q87. What is the pH value of human blood?

(a) 8.3
(b) 6.8
(c) 7.4
(d) 6

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Q88. In India, who is known as the highest law officer?

(a) President of India
(b) Attorney General of India
(c) Comptroller and Auditor General of India
(d) Advocate General of the State

Q89. According to the Indian Constitution, the Union _____ body is called the Parliament.

(a) Judicial
(b) Executive
(c) Legislative
(d) both Judicial and legislative

Q90. Which is NOT an example of organism that breaks down the food material outside the body and then absorb it?

(a) Bread moulds
(b) Yeast
(c) Mushrooms
(d) Snake

Q91. Each trait in the child can be influenced by _____ DNA.

(a) only paternal
(b) only maternal
(c) both paternal and maternal
(d) neither paternal nor maternal

Q92. Who launched Pradhan Mantri Vaya Vandana Yojana (PMVVY) in July 2017?

(a) Rajnath Singh
(b) Arun Jaitley
(c) Suresh Prabhu
(d) Nirmala Sitharaman

Q93. Which organisation has installed India's largest floating solar photovoltaic plant in Kerala?

(a) Nuclear Power Corporation of India
(b) Power grid Corporation of India
(c) National Hydroelectric Power Corporation
(d) National Thermal Power Corporation

Q94. 'ICAR' launched National Agricultural Higher Education Project (NAHEP) in association with World Bank. Where is ICAR (Indian Council of Agricultural Research) located?

(a) Mumbai
(b) Patna
(c) Bengaluru
(d) New Delhi

Q95. On 19 September 2017, Law Ministry approved Fugitive Economic Offenders Bill, 2017. The Bill entrusts the responsibility to try cases of Fugitive Economic Offenders under _____.

(a) Prevention of Money Laundering Act, 2002 (PMLA)
(b) Prevention of Money Laundering Act, 2005
(c) Prevention of Money Laundering Act, 2010
(d) Prevention of Money Laundering Act, 1995

Q96. Due to an acceleration of 4 m/s² the velocity of a body increases from 10 m/s to 30 m/s in a certain period. Find the displacement (in m) of the body in that period.

(a) 200
(b) 250
(c) 100

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(d) 125

Q97. The area under a Velocity-Time graph represents _____.

(a) distance
(b) acceleration
(c) force
(d) momentum

Q98. A _____ is known by different names in different parts of the world. It is called a 'hurricane' in North America.

(a) funnel
(b) whirlpool
(c) cyclone
(d) twister

Q99. Which of the statements given below are correct?

A) Alexander Norén won the Golf 2017 Masters Tournament.
B) In 2017, Daniel Ricciardo raced in Formula One for Mercedes.
C) In 2017, Pro Kabaddi League, Suraj Desai played for Jaipur Pink Panthers.

(a) Only A
(b) Only B
(c) B and C
(d) None of these

Q100. In _____ layout headings can be displayed hiding the text under them in Microsoft Word.

(a) Web
(b) Outline
(c) Reading
(d) Print

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) 3

The correct answer is '3' i.e. error lies in the third part of the sentence.

Key Points

In the third part of the sentence, the usage of 'improving' is incorrect Instead, use 'improve'

• According to grammar, whenever we use the helping verb do/does/did we always use the first form of the verb as the main verb.
• Let's see an example-
• I did not know Jamie had a knife.

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So the correct sentence is- Although he studied regularly, his marks didn't improve.

Q2. Answer: (c) 3

The correct answer is '3' i.e. error lies in the third part of the sentence.

Key Points

In part 3 of the sentence, the usage of 'declines' is incorrect Instead use 'declined'

• According to grammar, Whenever the whole sentence is in the past tense then write every verb in the past simple tense.

• Let's see an example-

• He offered the boys some coffee instantly they declined politely.

So the correct sentence is- Buddhism originated in Ancient India around the 6th and 4th centuries BC, from where it spread through most of Asia, and then it declined in India during the Middle Ages.

Q3. Answer: (a) Artificial

The correct answer is 'Artificial'

Key Points

• Let's see the meanings of the given words-

• Artificial→ means 'made as a copy of something natural.'

• Daydream→ A series of pleasant thoughts that distract one's attention from the present.

• Unreal→ means 'not seeming real'

• Vulnerable→ Exposed to the risk of being.

• So according to the meaning, the correct answer is 'Artificial'. Also, in the blank, we need to add an adjective that is opposite of the word written before the blank.

Q4. Answer: (d) Deeds

The correct answer is 'deeds'

Key Points

• Let's see the meanings of the given words-

• Steeds→ mean 'A horse'

• Bleed→ means 'lose blood from the body as a result of injury or illness.'

• Gleeds→ mean 'great delight'

• Deeds→ mean 'a conscious or intentional action'

• So according to the meanings of the given words, the correct answer is 'deeds' as it is suitable in the given context.

Q5. Answer: (a) Brief

The correct answer is 'Brief'

Key Points

• Let's see the meanings of the given words-

• Laconic→ means 'someone who uses very few words.'

• Verbose→ means 'using or expressing in more words than are needed.'

• Unabridged→ means 'full length; complete; unreduced.'

• Lengthy→ means 'of considerable or unusual duration.'

• Hence, according to the meaning, the correct answer is 'Brief'

Q6. Answer: (d) Hopeful

The correct answer is 'Hopeful'

Key Points

• Let's see the meanings of the given words-

• Propitious→ means 'giving or indicating a good chance of success; favourable.'

• Luxurious→ means 'characterized by luxury'

• Sad→ Feeling sorrow; unhappy.

• Hopeful→ feeling or inspiring hope.

• Hence, according to the meanings of the given words, the correct answer is 'Hopeful'

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Q7. Answer: (d) Hard

The correct answer is 'hard'

Key Points

• Let's see the meanings of the given answer-

• Mellow→ means 'pleasantly smooth or soft'

• Ripe→ means 'ready for harvesting and eating'

• Rich→ means 'having a great deal of money or assets.'

• Hard→ means 'solid firm or rigid'

• Hence, according to the meanings of the given words, the correct answer is 'Hard'

Q8. Answer: (c) Hide

The correct answer is 'Hide'

Key Points

• Let's see the meanings of the given words-

• Exhume→ dig out (something buried, especially a corpse) from the ground; extract; reveal.

• Resurrect→ revive or revitalize (something that is inactive, disused, or forgotten).

• Hide→ means 'put or keep out of sight'

• Resurrect→ means 'restore to life'

• Hence, according to the meaning of the given words, the correct answer is 'Hide'

Q9. Answer: (a) PQR

The correct answer is 'PQR'

Key Points

• As the sentence begins with the prepositional phrase 'for ages', we need a noun so the sentence has a subject.

• The subject is found in 'P' i.e. 'the Indian psyche'.

• V3 form of the verb will follow the verb 'has been', as the sentence is in passive voice. Therefore, Q will come after P.

• R (to the welfare of all) comes last as it ties the sentence in a meaningful manner.

• So the correct sequence is 'PQR' and Option 1 is the correct answer.

Correct sentence - For ages, the Indian psyche has been geared towards devoting one's life to the welfare of all.

Q10. Answer: (a) This essay has been written by my cousin.

The correct answer is 'This essay has been written by my cousin'

Key Points

• While changing the Active voice into the passive voice we need to follow the given steps-

• Firstly, recognize the verb of the sentence or the tense of the sentence because in the passive voice we don't change the tense.

• Secondly, recognize whether the sentence has an object.

• Thirdly, if the object is not written then see whether the sentence has an infinitive phrase if yes, then make the passive voice of an infinitive phrase.

• So in the given sentence, the object is 'this essay' and the verb is the present perfect tense so in the passive the tense will remain the same.

• So the correct answer is 'Option 1'

Q11. Answer: (b) The lady asked whether he knew the way to home.

The correct answer is 'The lady asked whether he knew the way to home'

Key Points

• We have to keep the following steps in mind while changing the direct speech into indirect speech.

• Firstly, look at the sentence type the given is an interrogative sentence because after the reported speech there is a question mark. If the sentence is an interrogative sentence then, we have to write if/whether.

• Secondly, check for the tense of the sentence the given sentence is in the present tense hence it will change into the past tense.

• Thirdly, check for the pronouns in the sentence.

• So following these steps, the indirect speech of the given sentence is- The lady asked whether he knew the way to home.

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Q12. Answer: (a) Foreign

The correct answer is 'Foreign'

Key Points

• The correct spelling is 'Foreign'

• The meaning of the given word is 'Characteristics of a country or language other than one's own.'

• It is an adjective, the noun form of this word is 'foreignness'

Q13. Answer: (c) Saying

The correct answer is 'saying'

Key Points

• In the given blank, we need a noun because before the blank an adjective is mentioned which is 'proverbial' hence we need a noun that is going to be followed by this adjective.

• 'Say' is a verb and 'Said' is a verb too.

• 'Saying' is a verb as well as it acts as a gerund and we know that gerund acts as a noun. So it is going to be the correct answer.

Q14. Answer: (b) This

The correct answer is 'this'

Key Points

• In the given blank, we need a pronoun for the noun 'destiny' also this noun is in a singular form hence we need a singular pronoun.

• So, 'these' and 'those' are eliminated because these two are in plural form.

• 'Here' is an adverb of a place that is grammatically incorrect hence the correct answer is 'this'

Q15. Answer: (a) Or

The correct answer is 'Or'

Key Points

• Before the blank, 'wise' is mentioned and after the blank we can see the opposite of 'wise' is mentioned hence to connect these two words we need a coordinate conjunction that is 'or' So the correct answer is Option 1.

Q16. Answer: (b) From

The correct answer is 'from'

Key Points

• The meaning of the preposition 'from' is 'indicating source or provenance'

• Let's see an example-

• He appealed for information from anyone who saw the attackers.

So the correct sentence is- That he receives from the hand of providence.

Q17. Answer: (c) Himself

The correct answer is 'himself'

Key Points

• In the given blank we need a reflexive pronoun.

• As we can see the options 'he' is a subjective case and 'his' is a possessive pronoun.

• 'Him' is an objective case. So these options are eliminated.

• 'himself' is a reflexive pronoun which is the correct answer.

So the correct blank is- So accommodate himself to it, that he

Q18. Answer: (b) To happen in the way you had hoped.

The correct answer is 'to happen in the way you had hoped'

Key Points

• The meaning of the given idiom 'come true' is 'to happen in fulfillment of an expectation, prediction, wish, etc.; become a realized fact'

• Let's see an example-

• Many of his predictions are coming true.

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Q19. Answer: (c) Said when two people have the same opinion or make the same choice.

The correct answer is 'said when two people have the same opinion or make the same choice'

Key Points

• The meaning of the given idiom 'great minds think alike' is 'said when two people have the same opinion or make the same choice'

• Let's see an example-

• Tom and I both brought the same gift to Sarah's party. Great minds think alike, I guess.

Q20. Answer: (d) Exigency

The correct answer is 'exigency'

Key Points

• Let's see the meanings of the given words-

• Vindication →clearing someone of blame or suspicion.

• Satiety→ satisfaction.

• Redress→ to correct.

• Exigency→ As urgent need or demand

• Hence, according to the meaning of the given words, the correct answer is 'exigency'

Q21. Answer: (d) Adhere

The correct answer is 'adhere'

Key Points

• Let's see the meaning of the given words-

• Atheist → someone who doesn't believe in god.

• Pagan →a person holding religious beliefs other than those of the main world religions.

• Agnostic → a person who believes that nothing is known or can be known of the existence or nature of God.

• Adhere→ Stick fast to or believe in and follow the practices of.

• So according to the meaning of the given words, the correct answer is 'Adhere'

Q22. Answer: (c) are mired

The correct answer is 'are mired'

Key Points

• According to the grammar, whenever we have 'adjectives/nouns/verbs' connected with the coordinate conjunction 'and' then we have to follow the parallelism.

• In the given sentence, 'have' is connected with the coordinate conjunction hence at the other side of the conjunction we need to use the plural form of the helping verb which is 'are'.

• Also, if we have two different things happening in the sentence and they are connected with the conjunction 'and' then, we have to use different verbs.

• In the given sentence, two things are happening which is 'we have lost the magic of living' and the other thing is 'is mired in the numbers' as they both are different hence we have used different verbs for the subject 'we'

So the correct sentence is- We have lost the magic of living, and are mired in numbers.

Q23. Answer: (a) Has fascinated

The correct answer is 'has fascinated'

Key Points

• According to grammar, 'that' is a relative pronoun whenever we have a relative pronoun we use the verb according to the antecedent of the pronoun here in the given sentence the antecedent is 'journey' hence we need a singular verb for this.

So the correct sentence is- There is something in a train journey that has fascinated a lot of people and I am one of them.

Q24. Answer: (c) ACB

The correct answer is 'ACB'

Key Points

• If we read the last word of the fixed sentence we get to know that it is a pronoun 'we' that acts as a subject of the sentence because 'on the speech front' is a prepositional phrase that has no effect on the verb.

• So the verb is given in part A of the sentence i.e. 'can' and the second sentence would be 'c' because it will act as a subordinate clause and the main clause will start from the 'we'

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So the correct sentence is- On the speech front, we can all do something individually if we change our idiom of communication.

Q25. Answer: (a) Monopoly

The correct answer is 'Monopoly'

Key Points

• The correct spelling is 'Monopoly'

• The meaning of the given word is- The exclusive possession or control of the supply of or trade in a commodity or service.

• Thus, the marked option is correct and therefore the answer.

Additional Information

Let's look at the meaning of the other option-

• The correct spelling of the word is 'Illiterate' - It refers to a person who is unable to read or write. It can also imply a lack of education or knowledge in general or in a specific subject.

Q26. Answer: (b) Rectangle : Four

Given → Square : Four

The relation between Square and four is that Square has four sides.

Table shown below shows the shapes with the correct number of their sides:-

Shapes	Sides
Triangle	Three
Rectangle	Four
Octagon	Eight
Circle	No side

Similarly, Rectangle has four sides.

As can be seen clearly that all the other shapes except Rectangle are not given with the correct number of sides in the options.

Hence, the correct answer is "Rectangle : Four".

Q27. Answer: (b) 36 : 29

The pattern followed here is,

18 – 7 = 11

Similarly,

36 – 7 = 29

Thus, the related number pair is 36 : 29.

Q28. Answer: (d) JRS

The pattern followed here is,

Thus, the correct answer is “JRS”.

Q29. Answer: (b) Nose

The correct answer is Nose.

All are internal organs of the human body except the Nose.

Hence, the correct answer is 'Nose'.

Q30. Answer: (d) 19 – 31

The pattern followed here is,

1) 13 × 2 = 26

2) 15 × 2 = 30

3) 17 × 2 = 34

4) 19 × 2 = 38 (31)

Hence, the correct answer is "19 - 31".

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Q31. Answer: (b) URNM

The pattern followed here is,

1) T – 3 = Q, Q – 3 = N, N – 3 = K

2) U – 3 = R, R – 3 = O (N), O (N) – 3 = L (M)

3) V – 3 = S, S – 3 = P, P – 3 = M

4) L – 3 = I, I – 3 = F, F – 3 = C

Hence, the odd one is 'URNM'.

Q32. Answer: (b) 24531

The correct order of the given words as they would appear in an English dictionary is shown as follows:-

2. Alert

4. Assistant

5. Assume

3. Attach

1. Attempt

Hence, the correct answer is "24531".

Q33. Answer: (c) 103

The pattern followed here is:-

Hence, the correct answer is "103".

Q34. Answer: (d) UH

The pattern followed here is:-

As can be seen clearly UH is the missing term.

Hence, the correct answer is "UH"

Q35. Answer: (c) 59

Given:-

Position of Mohini from the left end → 23^(rd)

Position of Mohini from the right end → 37^(th)

Total number of person in the row → (Position of a person from the left end + position of a person from the right end) - 1

Total number of girls in the row → (23 + 37) - 1

Total number of girls in the row → 60 - 1 = 59

Hence, the correct answer is "59".

Q36. Answer: (d) FAITH

Given word → GRANDFATHER

1) RAND → GRANDFATHER (so, the word can be formed as all the letters are present)

2) AND → GRANDFATHER (so, the word can be formed as all the letters are present)

3) GRADE → GRANDFATHER (so, the word can be formed as all the letters are present)

4) FAITH → GRANDFATHER (so, the word 'FAITH' cannot be formed as the letter 'I' is missing in the given word)

As can be seen clearly from the above that the word FAITH cannot be formed.

Hence, the correct answer is "FAITH".

Q37. Answer: (a) 55

The logic followed here is:-

Sum of the positional value of all the letters of the word + 1 = Code

1) MUTE is written as 60 as:-

13 + 21 + 20 + 5 → 59 + 1 = 60

2) TYRE is written as 69 as:-

20 + 25 + 18 + 5 → 68 + 1 = 69

Similarly,

3) HYPE is written as 55 as:-

8 + 25 + 16 + 5 = 54 + 1 = 55

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Hence, the correct answer is "55".

Q38. Answer: (c) JVS

The pattern followed here is:-

Hence, the correct answer is "JVS".

Q39. Answer: (b) 133

The pattern followed here is:-

As can be seen clearly, 133 is the missing number.

Hence, the correct answer is "133".

Q40. Answer: (b) (142, 137, 133)

The logic followed here is:-

First number - 4 → Second number

First number - 8 → Third number

1) In 113, 109, 105

113 - 4 = 109

113 - 8 = 105

2) In (142, 137, 133)

142 - 4 = 138 not 137

142 - 8 = 134 not 133

3) (197, 193, 189)

197 - 4 = 193

197 - 8 = 189

4) (162, 158, 154)

162 - 4 = 158

162 - 8 = 154

As can be seen clearly from above that the group i.e. (142, 137, 133) is the odd one out as it doesn't follow the logic.

Hence, the correct answer is "(142, 137, 133)".

Q41. Answer: (b) 10

Given:-

Equation → 23 × 20 ÷ 35 - 2 + 10

Symbols	÷	•	•	×
Code	•	×	÷	•

After replacing the given symbols with their code we get:-

New equation → 23 – 20 + 35 × 2 ÷ 10

Now, after applying BODMAS Rule, we get:-

23 – 20 + 35 × 2 ÷ 10

23 - 20 + 35 × 0.2

23 - 20 + 7

23 + 7 - 20

30 - 20 = 10

Hence, the correct answer is "10".

Q42. Answer: (c) • and ÷

Given Equation → 17 - 20 ÷ 25 × 6 + 10 = 12

Checking the options one by one:-

1) - and +

Now, after interchanging the signs, we get:-

17 + 20 ÷ 25 × 6 - 10 = 12

Now, after applying BODMAS Rule, we get:-

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17 + 20 ÷ 25 × 6 - 10 = 12
17 + 0.8 × 6 - 10 = 12
17 + 4.8 - 10 = 12
21.8 - 10 = 12
11.8 ≠ 12
Left hand side is not equal to right hand side.
2) ÷ and ×
Now, after interchanging the signs, we get:-
17 - 20 × 25 ÷ 6 + 10 = 12
Now, after applying BODMAS Rule, we get:-
17 - 20 × 25 ÷ 6 + 10 = 12
17 - 20 × 4.16 + 10 = 12
17 - 83.2 + 10 = 12
17 + 10 - 83.2 = 12
27 - 83.2 = 12
-56.2 ≠ 12
Left hand side is not equal to right hand side.
3) + and ÷
Now, after interchanging the signs, we get:-
17 - 20 + 25 × 6 ÷ 10 = 12
Now, after applying BODMAS Rule, we get:-
17 - 20 + 25 × 6 ÷ 10 = 12
17 - 20 + 25 × 0.6 = 12
17 - 20 + 15 = 12
17 + 15 - 20 = 12
32 - 20 = 12
12 = 12
Left hand side is equal to right hand side.
4) × and -
Now, after interchanging the signs, we get:-
17 × 20 ÷ 25 - 6 + 10 = 12
Now, after applying BODMAS Rule, we get:-
17 × 20 ÷ 25 - 6 + 10 = 12
17 × 0.8 - 6 + 10 = 12
13.6 - 6 + 10 = 12
13.6 + 10 - 6 = 12
23.6 - 6 = 12
17.6 ≠ 12
Left hand side is not equal to right hand side.
Hence, the correct answer is "+ and ÷".

Q43. Answer: (b) 14

The pattern followed here is:-
9 * 4 → 9 + 4 = 13 × 2 → 26
4 * 4 → 4 + 4 = 8 × 2 → 16
3 * 6 → 3 + 6 = 9 × 2 → 18
Similarly,
5 * 2 → 5 + 2 = 7 × 2 → 14
Hence, the correct answer is "14".

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Q44. Answer: (c) PQPQPSPQ

The pattern followed here is:-

As can be seen clearly, the term that follows the trend of the given list is PQPQPSPQ.

Hence, the correct answer is "PQPQPSPQ".

Q45. Answer: (d) 24 km West

Given :-

Two pickup trucks X and Y start from the same place.

1) Truck X travels in East for 15 km.

2) Then turns right and travels 8 km.

3) In the meanwhile truck Y travels 7 km in west.

4) Then 3 km north.

5) Then 2 km west.

6) Then it turns left and travels 11 km.

Distance between Truck Y with respect to Truck X is

As can be seen clearly from above that Truck Y is 24 km away and in west direction with respect to Truck X.

Hence, the correct answer is "24 km West".

Q46. Answer: (c) Both conclusions I and II follow

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

Conclusions:

I) Some papers are tabloids → Follows (As it is given that all magazines are papers and some tabloids are magazines so, it is definite that some papers are tabloids)

II) Some tabloids are papers → Follows (As it is given that all magazines are papers and some tabloids are magazines so, it is definite that some tabloids are papers)

Hence, the correct answer is "Both conclusions I and II follow".

Q47. Answer: (d) ABC

As per the given information,

Hence, the correct answer is “ABC”.

Q48. Answer: (d) [figure]

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

Hence, the correct answer is "Option 4".

Additional Information

• The mirror always forms the laterally inverted images, i.e. left changes to right and vice-versa.

• The reflection of an object in the water is called its water image.

• The water image of an object in the water is always vertically inverted, i.e. upside changes to downside and vice-versa.

• The water image is the mirror image in case if the mirror is placed horizontally below the object.

Q49. Answer: (a) [figure]

Given → Unfolded Cube

When the unfolded cube is folded, the opposite faces of the cube formed are as shown below:-

Checking options one by one:-

Option 1) Cube cannot be formed as the two opposite faces of the cube i.e. Square enclosed in circle

and pair of circles

are present adjacent to each other.

Option 2) Cube can be formed as no two opposite faces of the cube are present adjacent to each other.

Option 3) Cube can be formed as no two opposite faces of the cube are present adjacent to each other.

Option 4) Cube can be formed as no two opposite faces of the cube are present adjacent to each other.

As can be seen clearly that cube given in option figure 1 cannot be formed.

Hence, the correct answer is "Option 1"

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Q50. Answer: (c) 32, 58, 77, 30

The pattern followed here is:-

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

1) 41 → J; 89 → N; 10 → D; 87 → V (so, the letter cluster formed is JNDV)

2) 32 → D; 96 → S; 13 → K; 69 → S (so. the letter cluster formed is DSKS)

3) 32 → D; 58 → O; 77 → P; 30 → E (so, the word formed is 'DOPE')

4) 34 → C; 96 → S; 32 → D; 57 → R (so, the letter cluster formed is CSDR)

Hence, the correct answer is "32, 58, 77, 30".

Q51. Answer: (b) 4.472

Calculation:

$\sqrt{405} - 1/2\sqrt{80} - \sqrt{125}$

$\Rightarrow \sqrt{(81 \times 5)} - 1/2\sqrt{(16 \times 5)} - \sqrt{(25 \times 5)}$

$\Rightarrow 9\sqrt{5} - 1/2 \times 4\sqrt{5} - 5\sqrt{5}$

$\Rightarrow 9\sqrt{5} - 2\sqrt{5} - 5\sqrt{5}$

$\Rightarrow 2\sqrt{5} = 2 \times 2.236 = 4.472$

Therefore The correct answer is 4.472

Q52. Answer: (c) 21, 23, 25

Calculation:

Let 3 consecutive odd numbers be a, (a + 2) and (a + 4)

$a^2 + (a + 2)^2 + (a + 4)^2 = 1595$

$\Rightarrow a^2 + a^2 + 4 + 4a + a^2 + 16 + 8a = 1595$

$\Rightarrow 3a^2 + 12a + 20 = 1595$

$\Rightarrow 3a^2 + 12a + 20 – 1595 = 0$

$\Rightarrow 3a^2 + 12a – 1575 = 0$

$\Rightarrow a^2 + 4a – 525 = 0$

$\Rightarrow a^2 + (25 – 21)\, a – 525 = 0$

$\Rightarrow a^2 + 25a – 21a – 525 = 0$

$\Rightarrow a(a + 25) – 21(a + 25) = 0$

$\Rightarrow (a + 25)(a – 21) = 0$

$\Rightarrow a + 25 = 0$

$\Rightarrow a = -25$

$\Rightarrow a – 21 = 0$

$\Rightarrow a = 21$

Therefore Three consecutive odd no. are a = 21, a + 2 = 23 and a + 4 = 25

Q53. Answer: (c) 1

Calculation:

$x = 1/(1 + \sqrt{2}) \times (1 - \sqrt{2})/(1 - \sqrt{2}) + 1/(\sqrt{2} + \sqrt{3}) \times (\sqrt{2} - \sqrt{3})/(\sqrt{2} - \sqrt{3}) + 1/(\sqrt{3} + 2) \times (\sqrt{3} - 2)/(\sqrt{3} - 2)$

$\Rightarrow x = (1 - \sqrt{2})/(1^2 - (\sqrt{2})^2) + (\sqrt{2} - \sqrt{3})/((\sqrt{2})^2 - (\sqrt{3})^2) + (\sqrt{3} - 2)/((\sqrt{3})^2 - 2^2)$

$\Rightarrow x = (1 - \sqrt{2})/(1 - 2) + (\sqrt{2} - \sqrt{3})/(2 - 3) + (\sqrt{3} - 2)/(3 - 4)$

$\Rightarrow x = -((1 - \sqrt{2}))/1 - ((\sqrt{2} - \sqrt{3}))/1 - ((\sqrt{3} - 2))/1$

$\Rightarrow x = –1 + \sqrt{2} – \sqrt{2} + \sqrt{3} – \sqrt{3} + 2$

Therefore x = 1

Q54. Answer: (c) 98

Concept used:

If $z + 1/z = k$ then, $z^2 + 1/z^2 = k^2 - 2$

Calculation:

$\Rightarrow z = 5 + 2\sqrt{6}$

$\Rightarrow 1/Z = 1/(5 + 2\sqrt{6}) \times (5 - 2\sqrt{6})/(5 - 2\sqrt{6})$

$\Rightarrow 1/Z = (5 - 2\sqrt{6})/(5^2 - (2\sqrt{6})^2)$

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=> 1/Z = (5 - 2√6)/(25 - 24)

=> 1/Z = 5 – 2√6

=> z + 1/z = 5 + 2√6 + 5 – 2√6 = 10

So, from the above concept, if z + 1/z = 10 then

=> z^2+ $1/z^2$ = 10^2 – 2 = 100 - 2 = 98

Therefore The correct answer is 98

Q55. Answer: (d) All option are correct

Calculation:

PA = PB (Both are the tangents that touches both end of chord from same point.)

angle CPA = angle CPB (The angle made by common side and tangent is equal because PA = PB)

PC = PC [Because of common side (radius that is extended to point P)]

So, ΔPAC ~= ΔPBC

Therefore All option are correct

Q56. Answer: (a) 30°

OA = OB = AB

Since radius are equal, so triangle AOB is equilateral triangle

angle AOB = 60°

So, angle ADB = 60/2 = 30°

Q57. Answer: (d) 30

Given:

U = 450 and V = 585

Calculation:

Required % is

=> (V – U)/\U × 100

=> (585 – 450)/450 × 100

=> 135/450 × 100

=> 30%

Therefore The correct answer is 30%

Q58. Answer: (a) 80

Calculation:

Let two no. are 3a and 7a

=> 3a × 7a = 1344

=> a^2 = 64

=> a = 8

Therefore Sum of both numbers = 3a + 7a = 10a = 10 × 8 = 80

Q59. Answer: (c) 18

Concept used:

Profit = Investment × Time

Calculation:

Let Q invested his money of t months and amount of P and Q are 4a and 7a.

Ratio of profit = P’s capital × time : Q’s capital × time

=> 4 : 21 = 4a × 6 : 7a × t

=> 4 : 21 = 24 : 7t

=> 4/21 = 24/7t

Therefore t = 18 months

Q60. Answer: (a) 3.27

Calculation:

Total Expenditure = Expenditure of (Pencils + Erasers + Sharpeners)

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Total Expenditure = 5 × 3 + 3 × 2 + 3 × 5 = 15 + 6 + 15 = 36
Total Articles = 5 + 3 + 3 = 11
Therefore Average expenditure = 36/11 = 3.27

Q61. Answer: (b) 500

Let P = 100 units
R = 18%/year = 18/100
Effective rate of C.I. for 2 years = 18% + 18% + (18 × 18)/100 = 39.24%
(S.I. + C.I.) of 2 years = 2090
=> (100 × 18 × 2) /100 + 100 × 39.24/100 = 2090
=> (36 + 39.4) units = 2090
=> 75.4 units = 2090
=> 1 unit = 2090/75.4
P = 100 units = (2090 / 75.24) × 100
Therefore S.I. of 1 year = [(209000 / 75.24) × 18 × 1]/100 = 500

Q62. Answer: (a) No profit/loss

Given:
C.P of pens = Rs. 20
Sold one at a profit of 25%
Sold another at a loss of 25%
Formula Used:
S.P = C.P × (100 + P%)%
S.P = C.P × (100 + L%)%
Where, P% = Profit%
L = Loss%, C.P = Cost Price
S.P = Selling Price
Calculation:
According to the formula used
S.P. of 1st pen = 20 × 125%
=> S.P. of 1st pen = 20 × 5/4 = Rs. 25
S.P. of 2nd pen = 20 × 75%
=> S.P. of 2nd pen = 20 × 3/4 = Rs. 15
Total S.P of two pens = Rs. 25 + Rs. 15 = Rs. 40
Total C.P of two pens = Rs. 20 × 2 = Rs. 40
Therefore There is no profit and loss.
Shortcut Trick
We know, 25% = 1/4
According to the question,
One article sold at a profit of 25% so, C.P = 4 and S.P = 5
Another article sold at a loss of 25%, so C.P = 4 and S.P = 3
Then. all-over C.P = (4 + 4) = 8 and S,P = (5 + 3) = 8
Here we see, C.P = S.P, so there is no profit and loss.

Q63. Answer: (a) 12.5

Calculation:
Let the C.P is 100 rs. So marked price = 130% of 100 = Rs. 130
C.P. × (100 + profit)/100 = M.P.× (100 - Discount)/100
=> 100 × (100 + 13.75)/100 = 130 × (100 - Discount)/100
=> 113.75 = 130 × (100 - Discount)/100
=> 11375 = 130 × (100 – Discount)
=> 11375 = 13000 – 130 × Discount
=> 130 × Discount = 13000 – 11375

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=> 130 × Discount = 13000 – 11375 = 1625

Therefore Discount percentage = 1625/130 = 12.5%

Q64. Answer: (c) 30

Given:

cbrt1331 + √729 - cbrt512?

Calculation:

cbrt1331 + √729 - cbrt512

=> 11 + 27 – 8

=> 30

Therefore Option 3 is the correct answer.

Q65. Answer: (c) 24

Concept used:

Total work = Efficiency × Time

Calculation:

Let manish complete the book = a days

So, puneet complete the book = 4a days

Difference of days = 4a – a = 3a = 90 days

=> a = 30 days

Time taken by manish = a = 30 days

Time taken by puneet = 4a = 120 days

Let Total work = Lcm of 30 and 120 = 120 units

Efficiency of manish = 120/30 = 4 units/day

Efficiency of punnet = 120/120 = 1 unit/day

Total Efficiency of Puneet and Manish = 4 + 1 = 5 units/day

Therefore Total time taken to complete the book = 120/5 = 24 days

Shortcut Trick

We know, Efficiency prop. to 1/time

	punnet	manish
Efficiency	1	4
Time	4	1

Time difference (4 - 1) = 3 unit → 90 min

So, time taken by Manish is 4 unit → 90/3 × 4 = 120 days

So, total work is 120 unit

If both of them work together then time taken = 120/(4 + 1) = 24 days

Q66. Answer: (d) 42

Calculation:

Let total distance between X and Y is a km.

T1= Distance/Speed = (3/7a)/3 = a/7

T2 = Distance/Speed = (4/7a)/4 = a/7

T = T1+ T2 = a/7 + a/7 = 2a/7

=> 12 = 2a/7

Therefore a = 42 km

Q67. Answer: (b) C

120 is the least no. of people who consumed the drink C.

Therefore the answer is C.

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Q68. Answer: (b) 3 : 7

Therefore Ratio of consumers of energy drink C to consumers of energy drink G = 120 : 280 = 3 : 7

Q69. Answer: (b) 100%

Consumers of drink B are greater than that of drink E by = (280 - 140)/140 × 100 = 140/140 × 100 = 100%

Q70. Answer: (a) 20%

Consumers of drink F = 240

New Consumers of drink F = 240 + 40% of 120 = 240 + 48 = 288

Therefore % increase = (288 - 240)/240 × 100 = 4800/240 = 20%

Q71. Answer: (a) 10

Concept used:

Area of equilateral triangle = $\sqrt{3}/4 \times a^2$

Where, side of the equilateral triangle is a

Calculation:

Area of equilateral triangle = $25\sqrt{3}$

=> $\sqrt{3}/4 \times a^2 = 25\sqrt{3}$

=> $a^2 = 100$

Therefore a = 10 cm

Q72. Answer: (b) 962.5

Concept used:

Area of the circle = πr^2, where r is the radius,

Calculation:

Radius is 17.5, then the area of the circle is

=> 22/7× 17.5 × 17.5

=> 22 × 2.5 × 17.5

=> 962.5 cm^2

Therefore The correct answer is 962.5

Q73. Answer: (d) 709.5

Concept used:

Total Surface area of Cone = $\pi r(l + r)$

Calculation:

=> 22/7 × 21/2× (11 + 21/2)

=>11 × 3 × 43/2 = 33 × 21.5

=> 709.5 cm^2

Therefore The correct answer is 709.5 cm2

Q74. Answer: (c) $(2\sqrt{2} + \sqrt{3})/2$

Concept used:

Calculation:

(cosec 45° + √3/2) = √2 + √3/2 = $(2\sqrt{2} + \sqrt{3})/2$

Q75. Answer: (a) 1.7

tan A = 15/8 = BC/AB

=> 15/8 = BC/0.8

=> BC = 1.5 cm

By Pythagoras Theorem,

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

=> $AC^2 = (0.8)^2 + (1.5)^2 = 0.64 + 2.25$

=> $AC^2 = 2.89$

Therefore AC = 1.7 cm

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Q76. Answer: (d) Housing Prices

• "Residex Index" is associated with Housing Prices. It was launched in 2007 by the National Housing Bank (NHB).

• Its purpose is to provide an index of residential prices in India across cities and over time.

Q77. Answer: (b) Taxation, public borrowing and deficit financing

• For sustaining Five-Year Plans, internal financing is done through taxation, public borrowing and deficit financing.

• Public borrowing through the issue of government bonds, funds accumulated through small saving schemes, direct and indirect taxation, and deficit financing are the viable options for internal financing.

• Hence, the correct answer is taxation, public borrowing and deficit financing.

Q78. Answer: (b) Pali

• Buddhist literary works generally written in Pali. It was a language that was spoken in Magadha and South Bihar.

• The Buddhist literature consists of “Tripitakas”. They are: 1. Vinaya Pitaka, 2. Sutta Pitaka, 3. Abhidhamma Pitaka

Q79. Answer: (d) Baghera Rebellion

The correct answer is Baghera Rebellion.

Key Points

• Baghera Rebellion is not associated with the area of Bengal.

Rebellion	Description
Sannyasi Rebellion	It was a rebellion by sannyasis and fakirs in Bengal in the late 18^(th) century.
Chuar Rebellion	It was a rebellion in the Midnapore district of Bengal in the 18^(th) century.
Pagal Panthi rebellion	It was a 19th-century revolt in Bengal.
Baghera Rebellion	• It was a rebellion in the Okha division in the early 19^(th) century. - The people of Baroda tried to collect more taxes than the Gehlars with the help of the English army. As a result of this effort, the Baghera Sardars rebelled.

Q80. Answer: (d) Singapore

The correct answer is Singapore.

Key Points

• Among the given cities, Singapore is closest to the equator.

• Singapore is 200 km north of the equator.

City	Latitude
Colombo	6.9
Jakarta	-6.2
Manila	14.58
Singapore	1.28

Additional Information

• Some other cities which lie closest to the equator

• Quito, Ecuador

• Kampala, Uganda

• Pekanbaru, Indonesia

• Padang, Indonesia

• Libreville, Gabon

• Pontianak, Indonesia

• Kisumu, Kenya

• Macapa, Brazil

• Mbandaka, Dem. Republic of Congo

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• Manta, Ecuador
• Kismayo, Somalia
• Entebbe, Uganda
• Nuevo Loja, Ecuador
• Sao Tome, Sao Tome

Q81. Answer: (a) Nagaland

The correct answer is Nagaland.

Key Points

• Nagaland does not border Mizoram. The domestic bordering states of Mizoram are Manipur, Assam, and Tripura.
• Mizoram lies in the northeastern part of India.
• Its capital city is "Aizawl".
• While the international borders of Mizoram are Bangladesh and Myanmar.
•

Q82. Answer: (d) Jhaveri sisters

The correct answer is Jhaveri sisters.

Key Points

• Jhaveri sisters are related to Manipuri Dance
• Manipuri:
• It is the indigenous dance of the people of Manipur.
• It is influenced by Vaishnavism.
• Radha Krishna's love is shown by the performance of the artists.
• Patronage: King Bhagya Chandra & Kriti Chandra.
• Lai Haroba is considered the primary phase of this dance.
• Absence of sensual aspect.
• Features:
• Colorful decoration.
• The lightness of dancing foot.
• The delicacy of drama.
• Lifting music & poetic charm.
• Main musical instrument: Pung or the Manipuri classical drum.

Additional Information

Classical dances	Exponents
Bharatnatyam	T. Balasaraswati, Shanta Rao, Mrinalini Sarabhai, Yamini Krishnamurthy, Kamala, Vyjayanthimala, Sonal man Singh, Samyukta Panigrahi, and Rukhmini Devi.
Kathak	Sitara Devi, Birju Maharaj, Gopi Krishna, Binda din Maharaj, Kalkadin, Uma Sharma.
Kathakali	Guru Krishna Kutty, Kanak Rele and Raghvan
Mohiniattam	Sunanda Nair, Jayaprabha Menon, Pallavi Krishnan, Gopika Verma, Vijayalakshmi and Radha Dutta.
Manipuri	Guru Bipin Sinha, Jhaveri sisters, and T Nadia Singh.
Odissi	Aadya Kaktikar, Aditi Bandyopadhyay, Anita Babu, Arpita Venkatesh and Aruna Mohanty.
Kuchipudi	Bhavana Reddy, Kaushalya Reddy, Raja and Radha Reddy and Yamini Reddy.
Sattriya	Mallika Kandali,Late Moniram Dutta Muktiyar Barbayan, Late Roseshwar Saikia Barbayan, Late Dr. Maheswar Neog, Late Dr Bhupen Hazarika, Late Ananda Mohan Bhagawati

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Q83. Answer: (c) Delhi

• The first BIMSTEC Disaster Management Exercise 2017 (BIMSTEC DMEx 2017) was held in New Delhi in October 2017.
• BIMSTEC stands for 'Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation'.
• The member countries are: Bangladesh, Bhutan, India, Myanmar, Nepal, Sri Lanka and Thailand.

Q84. Answer: (d) Prakash Padukone

The correct answer is Prakash Padukone.

Key Points

• Prakash Padukone is the recipient of the first Lifetime Achievement award initiated by the Badminton Association of India.
• The award will include a cash award of Rs. 10 lahks and a citation.
• He is the only Indian male player to reach World No 1 ranking.
• He belongs from Karnataka.
• He was awarded Arjuna Award in 1972 and Padma Shri in 1982.

Important PointsBadminton:

• Badminton was introduced in India in a version called Poona.
• British army officers learned the game in about 1870.
• In 1873 the duke of Beaufort introduced the sport at his country estate, Badminton, from which the game derives its name.

Modern Badminton:

• It is played as a single or doubles event
• It is played with the help of a racquet and a shuttle.
• The winner is chosen by points and the number of sets won.

Q85. Answer: (d) Buddhism

The correct answer is Buddhism.

Key Points

• Buddhism is a major religion followed in Sri Lanka, with 70.2% of the population identifying as Buddhist
• The main form of Buddhism practiced in Sri Lanka is Theravada Buddhism.

Other Religion population in Sri Lanka-

Religion	Percentage of People
Buddhists	70.2%
Hindus	12.6%
Muslims	9.7%
Christians	7.4%

Important Points

• Sri Lanka is an island country in South Asia.
• It was formerly known as Ceylon.
• The Democratic Socialist Republic of Sri Lanka is the official name of Sri Lanka.
• Sri Jayawardenepura Kotte is the legislative capital of Sri Lanka.
• Colombo is the executive and judicial capital of Sri Lanka.
• It is the largest city in Sri Lanka by population.

Q86. Answer: (d) 18 u

The correct answer is 18 u.

Key Points

• The relative molecular mass of water (H_2O) is 18.
• The relative molecular mass is unitless.
• How to find relative molecular mass?

1. Determine the chemical formula of the molecule.
2. Use the Periodic Table to determine the atomic mass of each element.
3. Multiply the atomic mass by the number of atoms of each element in the molecule.
4. Add the values to get the relative molecular mass.

• The relative molecular mass of water:-
• The formula for water is H2O. Each molecule contains 2 hydrogen atoms and 1 oxygen atom.
• Relative atomic masses: (H (Hydrogen) = 1, O (Oxygen) = 16).
• Thus, The relative molecular mass of water is -
• M_r (H2O)= 2*A_r(H) + A_r(O) = 2 x 1 + 16 = 18

Q87. Answer: (c) 7.4

The correct answer is 7.4

Key Points

• The pH values range from 0 to 14.
• A pH less than 7 is acidic and greater than 7 is basic.
• The pH value of human blood is 7.4.
• pH value of human blood is 7.4
• It is basic in nature.

Important Points

• pH value is used to indicate the acidity or basicity of an aqueous solution.
• A pH of 7 is considered neutral.
• The pH of acids is lower than 7.
• The pH of bases is more than 7.
• So, human blood can be said to be slightly basic in nature.
• the pH scale is from 0 to 14 where 0 means most acidic and 14 means most basic.
• It is a logarithmic scale and not a linear scale.

Q88. Answer: (b) Attorney General of India

The correct answer is Attorney General of India.

Key Points

• The Attorney General (AG) of India is a part of the Union Executive.
• He is the highest law officer in the country who can be part of any court in the Indian Territory.
• He got the right to speak and to take part in the proceedings of both the Houses of Parliament or their joint sitting and any committee of the Parliament of which he may be named a member.
• He has no right to vote when he participates in the proceedings of the Indian Parliament.
• Similar to a Member of Parliament, he also enjoys all powers related to immunities and privileges.
• He is not considered a government servant.
• He can practice privately too as he is not debarred from private legal practice.

Important Points

• The first Attorney General of India, M.C.Setalvad worked in his post for the longest term, i.e. for 13 years and Soli Sorabjee worked as the Attorney General was the shortest period. However, he was appointed for the post twice.
• Senior advocate R Venkataramani has been appointed as the new Attorney General of In
• dia.

Q89. Answer: (c) Legislative

The correct answer is Legislative.

Key Points

• According to the Indian Constitution, the Union Legislative body is called the Parliament.
• The Indian Parliament consists of the Lok Sabha, Rajya Sabha, and the President of India.
• Article 79 defines the constitution of Parliament.
• Parliament consists of Lok Sabha, Rajya Sabha, and the President.
• Article 81 is related to Lok Sabha. It is the lower house of the Parliament.
• Article 83 is related to the duration of the parliament.
• Parliament, also called the Sansad, is the legislature of the Union. It has the President, and two houses- the Upper House and the Lower House.
• The Upper House is also called the Rajya Sabha or the Council of States while the Lower House is called the Lok Sabha or the House of the people.

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Important PointsThere are three constituents of the Indian Parliament: The President of India, Lok Sabha, and Rajya Sabha-

President	Rajya Sabha	Lok Sabha
• Prime Constituent of the Indian Parliament - Head of the State - Supreme Commander of Indian Armed Forces - Have all executive powers of government	• Upper House or Council of States - Permanent Body and can't be dissolved - The Vice president is the Chairman of the Rajya Sabha - The term of a Rajya Sabha member is 6 years. - Total Seats – 250 out of which 238 are elected while 12 members are nominated by the President of India.	• Lower House or House of People - The term of Lok Sabha is 5 years. - Total Seats- 543 - The maximum strength of the Lok Sabha is 552.

Q90. Answer: (d) Snake

• Those organisms that break down the organic food material outside their body by the secretions of hydrolytic enzymes are called decomposers.

• These decompose the complex organic food into the simpler inorganic substances and then absorb them.

• Bread mould, Yeast, Mushrooms are Fungi. These are decomposers.

• Snake take holozoic nutrition in which the food is digested in the body.

• Hence, the correct answer is Snake.

Q91. Answer: (c) both paternal and maternal

The correct answer is both paternal and maternal.

Key Points

• A child develops from a zygote.

• A zygote is formed by the fusion of a male gamete (sperm) and a female gamete (ovum) in the process of fertilization.

• The genetic material contained in the male and female gametes is responsible for influencing the trait of the child.

• So, both paternal and maternal DNA influence the traits in a child. Hence, the correct answer is 'Both paternal and maternal'.

Q92. Answer: (b) Arun Jaitley

The correct answer is Arun Jaitley

Key Points

• The Ex- Union Minister for Finance, Defence, and Corporate Affairs, Arun Jaitley launched Pradhan Mantri Vaya Vandana Yojana (PMVVY) in July 2017.

• It is a Pension Scheme that aims to provide pensions exclusively to senior citizens aged 60 years and above.

• Life Insurance Corporation (LIC) of India has been given the sole privilege to operate this Scheme.

Important PointsArun Jaitley

• The former Finance Minister passed away on 24 August 2019. He was a Rajya Sabha member from Uttar Pradesh.

• Apart from the Finance Ministry, he was also handling the Ministry of Corporate Affairs.

• He was born on December 28, 1952. He did his schooling at St. Xavier's School, New Delhi from 1960-69.

• He graduated in Commerce from Shri Ram College of Commerce, New Delhi in 1973 and passed a Law degree from the University of Delhi, in 1977.

Q93. Answer: (d) National Thermal Power Corporation

• National Thermal Power Corporation has installed India's largest floating solar photovoltaic plant in Kerala.

• It has a capacity to produce 100kW of power daily. It forms a part of 'Make in India' initiative.

• Apart from generating power, it will also shade the water and reduce evaporation.

Q94. Answer: (d) New Delhi

The correct answer is New Delhi.

Key Points

• The headquarters of the Indian Council of Agricultural Research (ICAR) is located in New Delhi.

• ICAR was established on 16th July 1929 by the government of India.

• They come under the Department of Agricultural Research and Education (DARE), Ministry of Agriculture, and Farmers Welfare.

• They encourage the youth to pursue higher education in agriculture and research.

• ICAR is the apex body for coordinating, guiding, and managing research and education in agriculture in the country they include

• Horticulture,

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• Fisheries, and

• Animal sciences.

• It is one of the largest national agricultural systems in the world with 111 ICAR institutes and 71 Agricultural Universities.

Additional Information

• President of ICAR: Narendra Singh Tomar (Union Minister of Agriculture is the ex-officio President)

• Director-General of ICAR: Himashu Pathak

Q95. Answer: (a) Prevention of Money Laundering Act, 2002 (PMLA)

The correct answer is Prevention of Money Laundering Act, 2002 (PMLA)

Key Points

• Fugitive Economic Offenders Bill, 2017 entrusts the responsibility to try cases of Fugitive Economic Offenders under the Prevention of Money Laundering Act, 2002 (PMLA).

• It will not allow the offenders to evade the process of Indian law by fleeing the country.

Important PointsPrevention of Money Laundering Act, 2002 (PMLA)

• Money laundering is the process of bringing illegal money into an economy by hiding its illegal origin so that it appears to be legally acquired.

• The Government of India launched the Prevention of Money Laundering Act (PMLA) in 2002 to rein in money-laundering activities.

• It is a criminal law of the Parliament of India passed in 2002 to prevent money laundering and confiscate property derived from the laundered money.

• It came into force on July 1, 2005.

Some of the core objectives of the Act-

• Prevention and controlling money laundering.

• Confiscation and seizing of property involved in or derived from money laundering.

• Providing punishment to offenders

• Appointment of adjudicating authority and appellate tribunal concerning money laundering matters

• Maintaining records and putting obligations on financial institutions, banking companies, and institutions

• Dealing with every issue related to money laundering

Q96. Answer: (c) 100

CONCEPT:

• Equation of motion: The mathematical equations used to find the final velocity, displacements, time, etc of a moving object without considering force acting on it are called equations of motion.

• These equations are only valid when the acceleration of the body is constant and they move on a straight line.

• There are three equations of motion:

$V = u + at$

$V2 = u2 + 2 a S$

$S = ut + 1/2at^2$

Where, V = final velocity, u = initial velocity, s = distance traveled by the body under motion, a = acceleration of body under motion, and t = time taken by the body under motion.

EXPLANATION:

$v = 30$ m/s, $u = 10$ m/s, $a = 4$ m/s²

We know that,

$\Rightarrow v^2 = u^2 + 2aS$

$\Rightarrow 2aS = v^2 – u^2$

$\Rightarrow 2 \times 4 \times S = 900 - 100$

$\Rightarrow 8S = 800$

$\Rightarrow S = 800/8 = 100$m

Q97. Answer: (a) distance

The correct answer is distance.

Key Points

• The area under a velocity-time graph is the integral of velocity which is displacement.

• Displacement is a vector quantity and it defines how far an object has travelled.

• It can also be understood that the area under the graph is the product of velocity and time which is the distance travelled by the object.

Q98. Answer: (c) cyclone

The correct answer is cyclone

Key Points

• Cyclone is known by different names in different parts of the world.
• It is called a 'hurricane' in North America.
• It is a large-scale air mass with a low-pressure area.
• They are called "typhoons is called in the western North Pacific and Philippines.

Important Points

• Hurricanes are large, swirling storms that form over warm ocean waters.

Parts of the Hurricane are as follows-

• Eye- it is the hole at the center of the storm and the winds are light in this area.
• Eye Wall-The eyewall is a ring of the storm and the storm swirl around the eye.
• Rain Bands-These is clouds and rain that go far out from a hurricane's eyewall.
• A hurricane starts out as a tropical disturbance.
• A tropical storm becomes a hurricane if its winds reach 119 km/hr.

Additional Information

• Typhoons and hurricanes are the same types of storms. According to geographical position, the name of this storm varies.
• In the western Pacific Ocean, these storms are called Typhoons whereas in the Eastern Pacific Ocean, the Atlantic Ocean, and the Gulf of Mexico they are called Hurricanes.
• In Australia, the Bay of Bengal, and the Indian Ocean these types of storms are called cyclones.

Q99. Answer: (d) None of these

• Sergio García won the Golf 2017 Masters Tournament. Thus, statement A is wrong.
• In 2017, Daniel Ricciardo raced in Formula One for Red Bull Racing. Thus, statement B is wrong.
• In 2017, Pro Kabaddi League, Suraj Desai played for Dabang Delhi. Thus, statement C is wrong.

Q100. Answer: (b) Outline

The correct answer is Outline.

Key Points

• In MS Excel 2010, the shortcut key to remove the outline border of the selected cell is Ctrl + Shift +_.
• Remove all borders with shortcuts of Ctrl + Shift + _:
• Select the range you want to clear all borders and press the Ctrl + Shift + _ keys simultaneously.
• then you will see all borders are removed from the selected range.
• Add all outside borders with shortcuts of Ctrl + Shift + &:
• Select the cells you want to add all outside borders, and then press the Ctrl + Shift + & keys at the same time.
• Now you will see the outside borders are added for selected cells immediately.

Additional Information

• Ctrl+Shift+$: Applies the Currency format with two decimal places.
• Hide or Unhide Rows or Columns
• There are several dedicated keyboard shortcuts to hide and unhide rows and columns.
• Ctrl+9 to Hide Rows
• Ctrl+0 (zero) to Hide Columns
• Ctrl+Shift+(to Unhide Rows
• Ctrl+Shift+) to Unhide Columns – If this doesn't work for you try Alt, O, C, U (old Excel 2003 shortcut that still works).

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