SSC CHSL Previous Paper 10 (Held On: 7 March 2018 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) imunize
(b) immunaize
(c) imunaize
(d) immunize

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.

Writing also helped

A - to improve the

B - vocabulary, whether it was

C - vernacular or English

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

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".

All the other subjects (has been reduced) to nameless and faceless extras.

(a) have been reduced
(b) have being reduced
(c) has been reducing
(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".

A guest from Europe (was quite fascinate) by the papaya tree in my garden.

(a) was quite fascinated
(b) was quite fascinating
(c) is quite fascinating
(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.

Preserve a right, tradition, or idea in a form that ensures it will be protected and respected

(a) Profane
(b) Sacrilege
(c) Enshrine

(d) Blaspheme

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

Ask or beg for something earnestly or humbly

(a) Bequeath
(b) Bestow
(c) Accord
(d) Supplicate

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

A thorn in the flesh

(a) A minor discomfort which is easily ignored.
(b) To fight despite being injured.
(c) A source of continual annoyance or trouble
(d) A person within close family whom you secretly hate.

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

A wet blanket

(a) A safety net of precaution from fires.
(b) A person who discourages enjoyment or enthusiasm.
(c) An extremely uncomfortable place to sleep.
(d) A trick to shoo away unwelcome guests.

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.

The phrase consists usually of a few words which denote a single idea that _____ a separate part of a sentence. In this respect it differs from the clause, _____ is a short sentence that forms a distinct part _____ a composition, paragraph, or discourse. Correct phrasing is_____ by rests, such rests do not break the _____ of a thought or the progress of the sense. idea that _____ a separate part.

Q9. do not break the _____ of a thought

(a) continuity
(b) continue
(c) continuous
(d) continuously

Q10. Correct phrasing is _____ by rests,

(a) regulate
(b) regulates
(c) regulative
(d) regulated

Q11. forms a distinct part _____ a composition,

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

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Q12. differs from the clause, _____ is a short sentence

(a) what
(b) which
(c) whom
(d) where

Q13. a single idea that _____ a separate part of a sentence

(a) form
(b) forms
(c) formation
(d) forming

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) Forcsable
(b) Foreseeable
(c) Fourseeable
(d) Foreseable

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.

Priyanka said to me, “I don’t trust you.”

(a) Priyanka said she don’t trust me.
(b) Priyanka didn’t trust me.
(c) Priyanka told me that she didn’t trust me.
(d) Priyanka told me that she doesn’t trust me.

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.

The dog killed the cat.

(a) The cat is killed by the dog.
(b) The cat got kill by the dog.
(c) The dog was responsible for killing the cat.
(d) The cat was killed by the dog.

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

Saving the trees

P : requires a much

Q : bigger budget

R : of European forests

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

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

Prim

(a) Particular
(b) Informal
(c) Straight
(d) Nice

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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.

Loathe

(a) Abhor
(b) Decline
(c) Hate
(d) Like

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

Implicit

(a) Unspoken
(b) Supply
(c) Specific
(d) Driven

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

Mordant

(a) Kind
(b) Complimentary
(c) Bitter
(d) Peaceable

Q22. In the following question, the sentence is given with blanks to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The sharpness of our life comes when we bring more and more awareness to _____ moment.

(a) each
(b) each one
(c) none
(d) rare

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.

He had to _____ his theft.

(a) repent for
(b) repent in
(c) repented
(d) repenting

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'.

Live internet streaming requires an form of source media, an encoder (1)/ to digitize the content, a media publisher, and a content delivery (2)/ network to distribute and deliver the content. (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'.

Her elegance (1)/ makes her (2)/ an attracting lady. (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.

Lion : Den ? ? : ?

(a) Horse : Stable
(b) Cow : Grass
(c) Lion : Carnivorous
(d) Rabbit : Carrot

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

3 : 9 ? ? : ?

(a) 4 : 11
(b) 5 : 31
(c) 7 : 57
(d) 7 : 49

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

MRQ : PUT ? ? : ?

(a) NOT : MNS
(b) FRY : IUB
(c) PEG : RGI
(d) SAP : QYN

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

(a) Tiger
(b) Ostrich
(c) Lion
(d) Cheetah

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 - 12
(b) 13 - 14
(c) 17 - 18
(d) 19 - 21

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

(a) JKL
(b) EGI
(c) OQS
(d) KMO

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

1. Flesh
2. Flexible
3. Flaw
4. Flick
5. Fleet

(a) 35124
(b) 45123

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(c) 12453
(d) 24513

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

4, 7, 11, 18, 29, ?

(a) 45
(b) 30
(c) 32
(d) 47

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

AZ, BY, CX, DW, ?

(a) EU
(b) EV
(c) FW
(d) GV

Q35. In a row, there are 12 professors between Akash and Bhumi and Akash being the first professor in the row. There are 6 professors between Bhumi and Charu. If there are 15 professors after Charu, then how many minimum professors are there in the row?

(a) 21
(b) 24
(c) 20
(d) 22

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

Academic

(a) Card
(b) Made
(c) Ice
(d) Aim

Q37. In a certain code language, “FIR” is written as “33” and “LIT” is written as “41”. How is “TOM” written in that code language?

(a) 39
(b) 40
(c) 46
(d) 48

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

7 × 10 ÷ 30 - 2 + 6 = ?

(a) 33
(b) 18
(c) 7
(d) 26

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

18 + 12 ÷ 9 - 30 × 16 = 10

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

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Q40. If 13Δ3 = 20, 12Δ7 = 10 and 12Δ5 = 14, then find the value of 16Δ2 = ?

(a) 14
(b) 4
(c) 28
(d) 8

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

PQPPPPP, PPQPPPP, PPPQPPP, PPPPQPP, PPPPPQP, _____.

(a) QPPPPPP
(b) PQPPPPP
(c) PPPPPPQ
(d) PPQPPPP

Q42. A street seller starts from his home. He pushes his cart 1 km East, then he turns North and walks 4 km, then he turns West and walks 9 km, then he turns to his left and walks 4 km. Where is he with respect to his home?

(a) 8 km West
(b) 10 km West
(c) 8 km East
(d) 10 km 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 the commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: Some pizzas are pancakes.

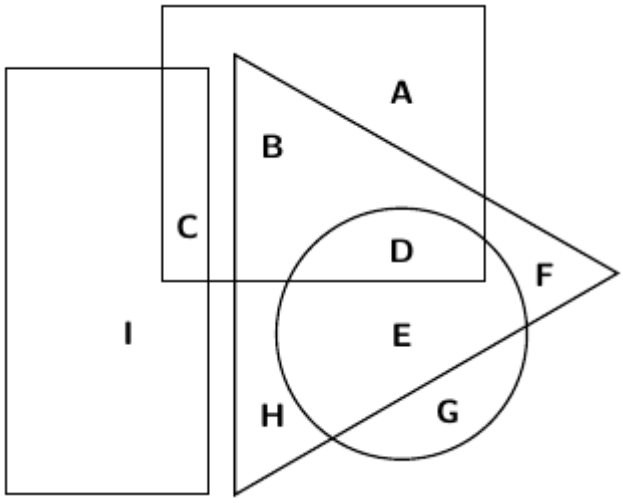
Statement II: All bread are pizzas.

Conclusion I: All pancakes are bread.

Conclusion II: No bread is a pizza.

(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 Web designers, circle represents Equestrians, triangle represents Poets and square represents Joggers. Which set of letter represents Joggers who are both Equestrians as well as Poets?



(a) BDG
(b) ABDG
(c) BD
(d) D

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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.

SUN, TWQ, UYT, VAW, ?

(a) WCZ
(b) XBY
(c) WCY
(d) XBZ

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

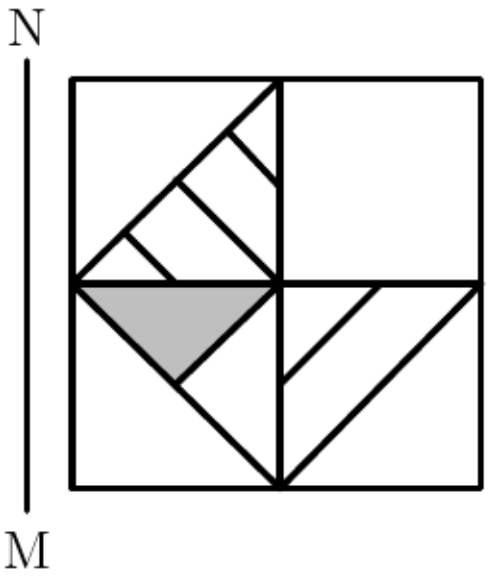
47, 44, 40, 37, ?, 30

(a) 32
(b) 33
(c) 34
(d) 31

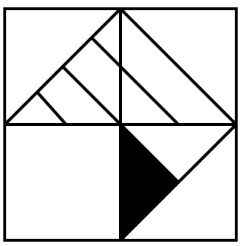
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (5, 10, 15)
(b) (7, 14, 21)
(c) (6, 12, 18)
(d) (8, 16, 28)

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

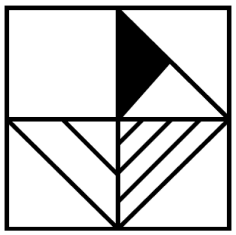


(a)

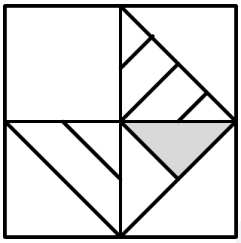


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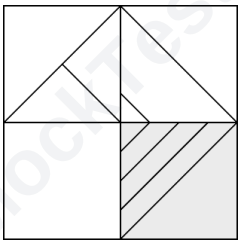
(b)



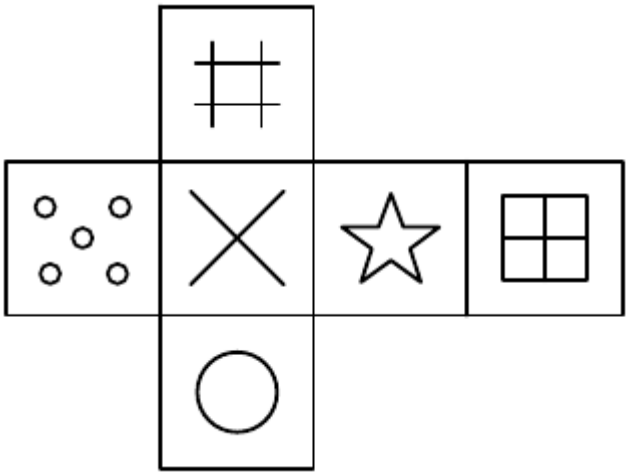
(c)



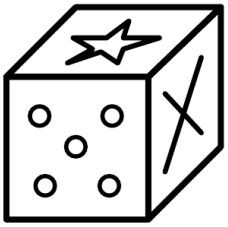
(d)



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

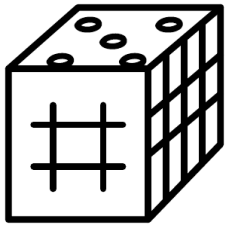


(a)

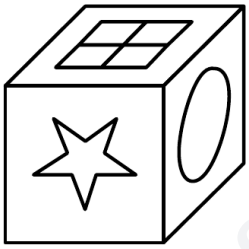


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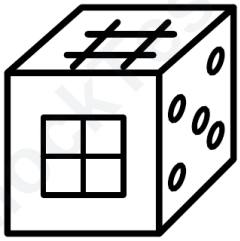
(b)



(c)



(d)



Q50. A word is represented by only set of number as given in any of the alternatives. The sets of number 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 Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first its row and next by its column, for example 'B' can be represented by 12, 41 etc. and 'V' can be represented by 75, 96 etc. Similarly, you have to identify the set for the word 'TEAR'.

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

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

(a) 57, 33, 42, 86
(b) 33, 58, 14, 76
(c) 11, 58, 34, 78

(d) 34, 97, 13, 86

QUANTITATIVE APTITUDE

Q51. The length of a string is 8 feet and 9 inches, which is divided into 3 equal parts. What is the length of each part in inches?

(a) 31
(b) 33
(c) 35
(d) 37

Q52. Determine the largest 4-digit number which is a perfect square.

(a) 9999
(b) 9702
(c) 9604
(d) 9801

Q53. Shaan got a total of Rs. 912 in the denomination of equal numbers of Rs. 1, Rs. 5 and Rs. 10 coins. How many coins do Shaan possess?

(a) 16
(b) 57
(c) 171
(d) 323

Q54. Two whole numbers are such that the square of the first number exceeds the square of the second by 112 and the ratio of the numbers is 4 : 3. What is the value of the smallest number?

(a) 3
(b) 4
(c) 12
(d) 36

Q55. Choose the CORRECT option about the two tangents drawn to the circle from the external point?

(1) The tangents subtend equal angles at the centre of the circle.

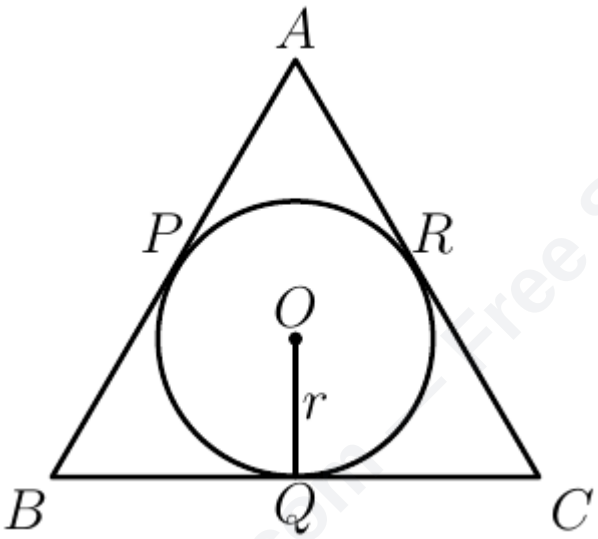
(2) The tangents drawn from the external point to a circle are equal in length.

(3) The tangents are equally inclined to the segment which joins the centre to that point.

(a) 1 and 2 only
(b) 2 and 3 only
(c) 1, 2 and 3
(d) 1 and 3 only

Q56. Consider the figure shown which consist of the triangle ABC which touches the circle with circle with centre at O. which of the following options is CORRECT?

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(a) AB - CQ = AC + BQ
(b) AB + CQ = AC + BQ
(c) AB + CQ = AC - BQ
(d) None of the above

Q57. If price of oranges is increased by 30%, then a person can buy 12 oranges less for Rs. 208. What is the original price (in Rs.) of an orange?

(a) 2
(b) 4
(c) 8
(d) 3

Q58. Of three positive numbers, the ratio of the first and the second is 5 : 2, the ratio of the second and the third is 5 : 4. The product of the first and the third is 1800. What is the sum of the three numbers?

(a) 43
(b) 133
(c) 119
(d) 129

Q59. The ratio of milk and water in three samples is 1 : 3, 3 : 5 and 11 : 5. A mixture containing equal quantities of all three samples is made. What will be the ratio of milk and water in the new mixture?

(a) 7 : 9
(b) 5 : 7
(c) 15 : 13
(d) 9 : 11

Q60. Average of 31 numbers is 19. If the average of first 8 numbers is 24, then what is the average of the remaining numbers?

(a) 17.26
(b) 23.25
(c) 26.2
(d) 25.45

Q61. The simple interest on a sum for 5 years is equal to 20% of the principal. In how many years will the interest be equal to the principal?

(a) 20
(b) 25
(c) 15
(d) 16

Q62. The ratio of selling price to the cost price is 13 : 17. What is the loss percentage?

(a) 23.52
(b) 27.74
(c) 18.62
(d) 19.45

Q63. Puneet purchased 5 dozen of oranges at the rate of Rs. 120 per dozen. He sold each one of them at the rate of Rs. 11.5. What is the profit (in percentage) of Puneet?

(a) 18
(b) 30
(c) 12
(d) 15

Q64. What is the simplified value of √18 - 1/(√2)

(a) 5/√2
(b) 5√2
(c) 2√5
(d) 2/√5

Q65. Some carpenters promised to do a job in 15 days but 3 of them were absent and remaining did the job in 20 days. What was the original number of carpenters?

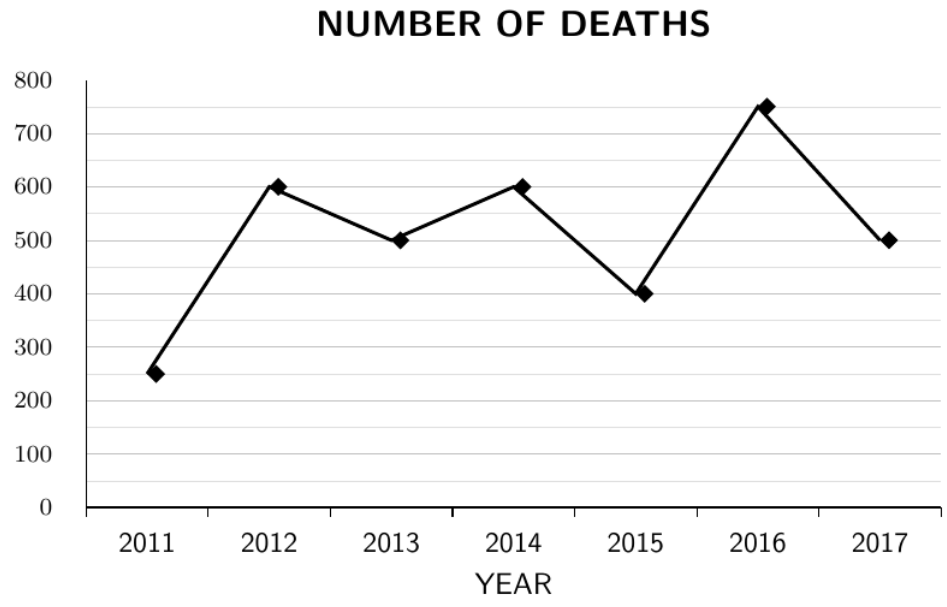
(a) 10
(b) 15
(c) 12
(d) 14

Q66. A truck moves at the speed of 90 km/hr after repairing and moves at the speed of 80 km/hr before repairing. It covers x distance in 8 hours after repairing. How much time (in hours) will it take to cover 4x distance before repairing?

(a) 48
(b) 40
(c) 36
(d) 28

Directions

Direction: The line graph shows the number of deaths due to road accidents in a certain state. Study the diagram and answer the following questions.



Q67. In which year wee the number of deaths lesser than that of the previous year?

(a) 2013
(b) 2012
(c) 2014
(d) 2016

Q68. What was the difference in the number of deaths between the years 2011 and 2013?

(a) 3500
(b) 2000
(c) 2500
(d) 3000

Q69. The number of deaths in 2014 were than that in 2017 by _____.

(a) 50%
(b) 40%
(c) 20%
(d) 14.2%

Q70. If on an average Rs. 50 lakhs was paid as insurance for each death due to a road accident, then how much insurance was paid (in Rs crore) in the year 2016?

(a) 3750
(b) 4750
(c) 3250
(d) 4250

Q71. The side of an equilateral triangle is 14 cm. Find its area (in cm^2).

(a) $64\sqrt{3}$
(b) $49\sqrt{2}$
(c) $64\sqrt{2}$
(d) $49\sqrt{3}$

Q72. If the perimeter of a semi-circle is 36 cm, then find its radius (in cm).

(a) 7
(b) 14
(c) 13
(d) 26

Q73. Find the curved surface area (in cm^2) of a right circular cylinder of diameter 28 cm and height 12 cm.

(a) 968
(b) 924
(c) 856
(d) 1056

Q74. What is the value of $(\tan 30° - \sqrt{3}/2)$?

(a) $-1/2\sqrt{3}$
(b) $(2\sqrt{3} - \sqrt{6})/2\sqrt{2}$
(c) $(2 - \sqrt{3})/2$
(d) 1/6

Q75. ΔDEF is right angled at E. If cot D = 5/12, then what is the value of sin F?

(a) 5/12
(b) 13/5
(c) 5/13
(d) 13/12

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GENERAL AWARENESS

Q76. In which one of the following places was Asia's first Export Processing Zone (EPZ) set up?

(a) Santa Cruz
(b) Kandla
(c) Cochin
(d) Surat

Q77. In which year, the Railway Budget and the General Budget were presented separately?

(a) 1924
(b) 1947
(c) 1952
(d) 1977

Q78. The ruler of which dynasty of South India assumed the title of 'Dharmaraj'?

(a) Wakatak
(b) Pallava
(c) Kadamb
(d) Western Ganga

Q79. Which of the following was a major industry in the Mughal period?

(a) Pearl production
(b) Silk cloth
(c) Cotton cloth
(d) No option is correct.

Q80. Which of the following is the largest satellite of the Solar System?

(a) Titan
(b) Miranda
(c) Moon
(d) Ganymede

Q81. Which geographical division of India is the oldest?

(a) Northern mountainous region
(b) Ganga-Brahmaputra Plain
(c) Peninsular
(d) Coastal plain

Q82. Who is considered to be the promoter of 'Bhakti Movement' in Bengal?

(a) Chaitanya
(b) Ramanand
(c) Namdev
(d) Ramanuj

Q83. Which of the following has become the first country in the world to pay equal salary to men and women?

(a) Iceland
(b) Denmark
(c) Sweden
(d) Russia

Q84. Who was conferred with the 2017 'Nobel Prize' for Literature?

(a) Bob Dylan
(b) Kazuo Ishiguro
(c) Oliver Hart
(d) Yoshinori Ohsumi

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Q85. The official 'Residence-cum-office' of the President of Bangladesh is called _____.

(a) Dhaka House
(b) Sonar Bangla
(c) Bangabhaban
(d) No option is correct.

Q86. Metals are generally _____.

I. Ductile
II. Malleable
III. Poor conductors of heat

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

Q87. According to Dalton's Atomic Theory, the smallest indivisible particles of matter are called _____.

(a) molecule
(b) atom
(c) compound
(d) element

Q88. Who appoints the Chief Election Commissioner of India?

(a) The President of India
(b) Prime Minister of India
(c) Chief Justice of India
(d) Home Minister of India

Q89. Who among the following holds the office during the pleasure of President?

I. Attorney General of India
II. Governors of states
III. Comptroller and Auditor General of India

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

Q90. Which of the following protects the inner lining of the stomach from the action of hydrochloric acid under normal conditions?

(a) Villi
(b) Mucus
(c) Saliva
(d) Digestive Juices

Q91. _____ are details of appearance or behaviour or in other words, a particular form or a particular function in the classification of organisms.

(a) Speciation
(b) Evolution
(c) Characteristics
(d) Illustration

Q92. 97% of the total debt of all state power distribution companies has been covered till June 2017 under the 'UDAY' scheme. What does 'D' stand for in 'UDAY'?

(a) Debt
(b) DISCOM

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(c) Distribution
(d) No option is correct.

Q93. The Secret Zuma Mission for United States government was launched on board of SpaceX's _____ rocket.
(a) Falcon 9
(b) Falcon 1
(c) Falcon 3
(d) Falcon 5

Q94. The 'National Trade Facilitation Action Plan' was formulated for the implementation of the World Trade Organisation's 'Trade Facilitation Agreement' (TFA). It will be implemented in between the years _____.
(a) 2017-20
(b) 2018-20
(c) 2018-21
(d) 2019-22

Q95. The Government of India has been actively working on the provisions of 'FRDI' Bill, 2017. What does 'D' stand for in 'FRDI'?
(a) Destruction
(b) Demand
(c) Deposit
(d) Department

Q96. Calculate the pressure (in Pa) if a thrust of 800 N is applied to an area of 16 m2.
(a) 128
(b) 100
(c) 64
(d) 50

Q97. The SI unit of acceleration is _____.
(a) ms^(-1)
(b) m^(-2)s
(c) ms^2
(d) m/s^2

Q98. Warm air is _____.
(a) heavier than cold air hence warm air rises up
(b) lighter than cold air hence warm air moves down
(c) lighter than cold air hence warm air rises up
(d) heavier than cold air hence warm air moves down

Q99. Which of the statements given below is correct?
A) Rafael Nadal won the Tennis 2017 Australian Open Men's Singles.
B) In 2017, Maverick Viñales raced in MotoGP for Yamaha.
C) In 2017, Lewis Hamilton raced in Formula One for Ferrari.
(a) Only B
(b) Only C
(c) B and C
(d) A and B

Q100. In Microsoft Word, first line and hanging are special forms of _____.
(a) Alignment
(b) Spacing
(c) Effects
(d) Indentation

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) immunize

The correct answer is- 'immunize'

Key Points

• 'Immunize' is a 'verb' and it means 'to make somebody immune to a disease, usually by putting a substance (vaccine) into his/her body'

• Example: Children are routinely immunized against polio.

Here, the correct spelling is- Immunize.

Q2. Answer: (b) ABC

The correct answer is- 'ABC'

Key Points

• In the given started sentence 'Writing also helped'. A should be the first part because this mentions 'how writing helped'.

• And B 'vocabulary, whether it was' cannot be the last part so that we can say 'BC' is the correct order.

The correct sentence is- Writing also helped to improve the vocabulary, whether it was vernacular or English

Q3. Answer: (a) have been reduced

The correct answer is- 'have been reduced'

Key Points

• Using 'have been reduced' in the place of 'has been reduced' to make the sentence correct.

• In the given question 'All the other subjects' is the plural subject and it requires the plural verb so that changed 'have' in the place of 'has'.

The correct sentence is- All the other subjects have been reduced to nameless and faceless extras.

Q4. Answer: (a) was quite fascinated

The correct answer is- 'was quite fascinated'

Key Points

• Using 'was quite fascinated' in place of 'was quite fascinate' to make the sentence correct.

• In the given sentence is in the passive form and we know that the structure of the past indefinite in the passive is 'Sub + was/were + V3 + By + object'.

• After following the above structure replace 'fascinated' in place of 'fascinate'.

The correct sentence is- A guest from Europe was quite fascinated by the papaya tree in my garden.

Q5. Answer: (c) Enshrine

The correct answer is- 'Enshrine'

Key Points

• The word 'Enshrine' is a verb and it means 'to contain or keep something as if in a holy place'

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• Example: A lot of memories are enshrined in this photo album.

Hence the option 3 is the most appropriate answer here.

WORDS	MEANING
Profane*(adjective)*	relating or devoted to that which is not sacred or biblical; secular rather than religious.
Sacrilege*(noun)*	violation or misuse of what is regarded as sacred.
Blaspheme*(verb)*	speak irreverently about God or sacred things.

Q6. Answer: (d) Supplicate

The correct answer is- 'Supplicate'

Key Points

• The word 'Supplicate' is a verb and it means 'to ask for something in a humble way'

• Example: I knew I could not go on supplicating for more.

Hence option 4 is the most appropriate answer here.

WORDS	MEANING
Bequeath*(verb)*	leave (a personal estate or one's body) to a person or other beneficiary by a will.
Bestow*(verb)*	confer or present (an honor, right, or gift).
Accord*(verb)*	give or grant someone (power, status, or recognition).

Q7. Answer: (c) A source of continual annoyance or trouble

The correct answer is- 'A source of continual annoyance or trouble'

Key Points

• 'A thorn in the flesh' is an idiom and it means 'a person or thing that repeatedly annoys you or causes you pain'

• Example: A relentless campaigner, he was a thorn in the government's side for a number of years.

Hence option 3 is the most appropriate answer here.

Q8. Answer: (b) A person who discourages enjoyment or enthusiasm.

The correct answer is- 'A person who discourages enjoyment or enthusiasm.'

Key Points

• 'A wet blanket' is an idiom and it means 'person who spoils other people's fun.'

• Example: She was indisposed so she decided to skip the party, not wanting to be a wet blanket on such a happy occasion.

Hence option 2 is the most appropriate answer here.

Q9. Answer: (a) continuity

The correct answer is- 'continuity'

Key Points

• Using 'continuity' in the blank space to make the sentence correct.

• The sentence needs a noun here and no other form of the word can be placed here.

• 'Continuity' is a noun and it means 'the fact of something continuing for a long period of time without being changed or stopped'

• Example: There has been no continuity in that class - they've had six different teachers.

Hence the option 1 is the most appropriate answer here.

Q10. Answer: (d) regulated

The correct answer is- 'regulated'

Key Points

• Using 'regulated' in the blank space to make the sentence correct.

• The correct form of the verb is 'regulated' as it fits correctly after the verb 'is' and the other forms of the verb do not fit here.

Hence option 4 is the most appropriate here.

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Q11. Answer: (c) of

The correct answer is- 'of'

Key Points

• Using 'of' in the blank space to make the sentence correct.

• The correct preposition here is 'of' as something forms a part 'of' something and the other prepositions do not fit here.

Hence option 3 is the most appropriate answer here.

Q12. Answer: (b) which

The correct answer is- 'which'

Key Points

• Using 'which' in the blank space to make the sentence correct.

• The sentence talks about an 'inanimate object, clause, thus we can say 'which' fits here correctly and the other words cannot be placed here.

Hence option 2 is the most appropriate answer here.

Q13. Answer: (b) forms

The corret answee is- 'forms'

Key Points

• Using 'forms' in the blank space to make the sentence correct.

• In the senetence the subject is singular which is 'single idea' thus the singular verb 'forms' fits here correctly and the other words do not fit here.

Hence option 2 is the most appropriate answer here.

Q14. Answer: (b) Foreseeable

The correct answer is- 'Foreseeable'

Key Points

• 'Foreseeable' is an 'adjective' and it means 'A foreseeable event or situation is one that can be known about or guessed before it happens'

• Example: I'll be living here for the foreseeable future.

Here, the correct spelling is- Foreseeable

Q15. Answer: (c) Priyanka told me that she didn’t trust me.

The correct answer is- 'Priyanka told me that she didn’t trust me.'

Key Points

• In indirect speech, the word 'said to' becomes 'told'. and we will use the conjunction 'that' to connect the sentence.

• Since the tense in direct speech is present, the correct tense in indirect speech is simple past.

Thus, option 3 is the most appropriate answer here.

Q16. Answer: (d) The cat was killed by the dog.

The correct answer is- 'The cat was killed by the dog.'

Key Points

• In the given question the sentence 'The dog killed the cat' is in 'Active voice' which is in the past indefinite and we know that after converted this sentence into 'Passive voice' the tense will same which also should in past indefinite.

• Past indefinite:

• Sub + V2 + object (Active)

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

• Example:

• Reema cleaned the floor. (Active)

• The floor was cleaned by Reema. (Passive)

Hence the correct answer is- The cat was killed by the dog.

Q17. Answer: (c) RPQ

The correct sentence is- 'RPQ'

Key Points

• R is the first part as it states where the trees are present.

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• P continues the sentence and Q completes the sentence.

Here option 3 is the most appropriate answer here.

Q18. Answer: (b) Informal

The correct answer is- 'Informal'

Key Points

• 'Informal' is an adjective and it means 'not formal or official' and the opposite word of 'Prim' is 'Informal'.

• Example: The two groups agreed to hold an informal meeting.

• 'Prim' is an adjective and it means feeling or showing disapproval of anything regarded as improper; stiffly correct.

• Example: She was a very prim and proper lady.

• Hence the correct opposite word is Informal.

Additional Information

WORDS	MEANING
Particular(adjective)	used to single out an individual member of a specified group or class.
Straight(adjective)	extending or moving uniformly in one direction only; without a curve or bend.
Nice(adjective)	pleasant; agreeable; satisfactory.

Q19. Answer: (d) Like

The correct answer is- 'Like'

Key Points

• 'Loathe' is an adjective and it means 'to hate someone or something' and the opposite word of 'Loathe' is 'Like'.

• Example: From an early age the brothers have loathed each other.

Hence the correct opposite word is Like.

WORDS	MEANING
Abhor*(verb)*	regard with disgust and hatred.
Decline*(verb)*	(typically of something regarded as good) become smaller, fewer, or less; decrease.
Hate*(verb)*	feel intense or passionate dislike for (someone).

Q20. Answer: (a) Unspoken

The correct answer is- 'Unspoken'

Key Points

• 'Implicit' is an adjective and it means 'suggested but not communicated directly' so the similar word of 'Implicit' is 'Unspoken'.

• Example: He interpreted her comments as an implicit criticism of the government.

Hence the correct similar word is Unspoken.

WORDS	MEANING
Supply*(verb)*	make (something needed or wanted) available to someone; provide.
Specific*(adjective)*	precise and clear in making statements or issuing instructions.
Driven*(past participle)*	operated, moved, or controlled by a specified person or source of power.

Q21. Answer: (c) Bitter

The correct answer is- 'Mordant'

Key Points

• 'Mordant' is an adjective and it means '(especially of humour) cruel and criticizing in a humorous way' so the similar word of 'Mordant' is 'Bitter'.

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• Example: a mordant sense of humour.

• 'Bitter' is an adjective and it means painful or unpleasant to accept or contemplate.

• For Example - Today's decision has come as a bitter blow.

• Hence option 3 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Kind*(noun)*	a group of people or things having similar characteristics.
Complimentary*(adjective)*	expressing a compliment; praising or approving.
Peaceable*(adjective)*	inclined to avoid an argument or violent conflict.

Q22. Answer: (a) each

The correct answer is- 'each'

Key Points

• Using 'each' in the place of blank space to make the sentence correct.

• In the given question option 3 and option 4 do not fit here because we need a positive word here according to the context of the given sentence.

• Since option 2 does not grammatically correct here. So that 'each' is the correct option here

The correct sentence is- The sharpness of our life comes when we bring more and more awareness to each moment.

Q23. Answer: (a) repent for

The correct answer is- 'repent for'

Key Points

• Using 'repent for' in the blank space to make the given sentence correct.

• The word 'Repent' is a verb and it means 'to feel and show that you are sorry about something bad that you have done.'

• Example: He repented (of his sins) just hours before he died.

• The correct verb here should be in the transitive form as 'to' is mentioned here and the preposition 'for' should be mentioned here as someone 'repents' for something.

The correct sentence is- He had to repent for his theft.

Q24. Answer: (a) 1

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

Key Points

• Using article 'a' in the place of 'an' to make the sentence correct.

• The error lies part 1 of the sentence as the article 'an' is incorrect here. 'An' is used before a word that begins with a vowel.

• The word 'form' begins with a consonant thus the correct article here will be 'a'. It should read as- 'Live internet streaming requires a form of source media, an encoder..'

The correct sentence is- Live internet streaming requires a form of source media, an encoder to digitize the content, a media publisher, and a content delivery network to distribute and deliver the content.

Q25. Answer: (c) 3

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

Key Points

• Using 'attractive' in the place of 'attracting' to make the sentence correct.

• The error lies in part 3 of the sentence as the verb 'attracting' is incorrect here and must be replaced with the adjective 'attractive (very pleasing in appearance or sound)'

The correct sentence is- Her elegance makes her an attractive lady.

Q26. Answer: (a) Horse : Stable

The pattern followed here is:

As ‘Lion’ lives in a ‘Den’,

Similarly,

‘Horse’ lives in a ‘Stable’.

Hence, the correct answer is "Horse : Stable".

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Q27. Answer: (d) 7 : 49

The pattern followed here is:-

Number : (Number)²

In 3 : 9 → 3 : (3)²

Similarly,

In 7 : 49 → 7 : (7)²

Hence, the correct answer is "7 : 49"

Q28. Answer: (b) FRY : IUB

The pattern followed here is:-

MRQ is related to PUT as

Similarly,

FRY is related to IUB as

Hence, the correct answer is "IUB".

Q29. Answer: (b) Ostrich

The logic here is as follows:

All options except 'Ostrich' are animals while 'Ostrich' is a bird.

Hence, the correct answer is 'Ostrich'.

Q30. Answer: (d) 19 - 21

The logic followed here is:

Number on left side = Number on right side - 1

1) In 11 - 12 → 12 - 1 = 11

2) In 13 - 14 → 14 - 1 = 13

3) In 17 - 18 → 18 - 1 = 17

4) In 19 - 21 → 21 - 1 = 20 not 19

As can be seen clearly, 19 - 21 doesn't follow the logic and is the odd one out.

Hence, the correct answer is "19 - 21".

Q31. Answer: (a) JKL

The pattern followed here is,

1) JKL → J + 1= K; K + 1 = L

2) EGI → E + 2 = G; G + 2 = I

3) OQS → O + 2 = Q; Q + 2 = S

4) KMO → K + 2 = M; M + 2 = O

Clearly, 'JKL' is the odd one out.

Hence, the correct answer is "JKL".

Q32. Answer: (a) 35124

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

3. Flaw

5. Fleet

1. Flesh

2. Flexible

4. Flick

Hence, the correct answer is "35124".

Q33. Answer: (d) 47

The pattern followed here is:-

Two consecutive numbers in the given series are added together to get the next number in the series.

Hence, the correct answer is "47".

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Q34. Answer: (b) EV

The pattern followed here is:-

Hence, the correct answer is "EV".

Q35. Answer: (d) 22

Given:-

1) In a row, there are 12 professors between Akash and Bhumi and Akash being the first professor in the row.

Akash Bhumi

2) There are 15 professor after Charu.

Charu __

3) There are 6 professors between Bhumi and Charu.

Akash Charu Bhumi __

Therefore, Minimum number of professors in the row:-

Akash + 5 + Charu + 6 + Bhumi + 8 = 22 professors.

Mistake Points We need to find the minimum number of professors in the row and for that we need to place Charu on the left of Bhumi.

Q36. Answer: (a) Card

Given word → Academic

1) Card → As the letter ‘R’ is not present in the given word ‘Academic’ so, the word 'Card' cannot be formed.

2) Made → Academic (As all the letters of the word are present in the given word. So, the word can be formed)

3) Ice → Academic (As all the letters of the word are present in the given word. So, the word can be formed.

4) Aim → Academic (As all the letters of the word are present in the given word. So, the word can be formed)

Hence, the correct answer is "Card".

Q37. Answer: (d) 48

The pattern followed here is:-

Sum of positional value of all the letters = code

'FIR' is written as '33'

F → 6, I → 9, R → 18

FIR → 6 + 9 + 18 = 33

'LIT' is written as '41'

L → 12, I → 9, T → 20

LIT → 12 + 9 + 20 = 41

Similarly,

'TOM' is written as '48'

T → 20, O → 15, M → 13

TOM → 20 + 15 + 13 = 48

As can be seen clearly that the code for TOM is 48.

Hence, the correct answer is "48".

Q38. Answer: (c) 7

Given :-

7 × 10 ÷ 30 - 2 + 6

Symbol	•	•	×	÷
Meaning	÷	×	•	•

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

New Equation → 7 - 10 + 30 × 2 ÷ 6

Now, applying BODMAS rule, we get:-

7 - 10 + 30 × 2 ÷ 6

7 - 10 + 30 × 0.33

7 - 10 + 9.9 (9.9 ~ 10)

7 - 10 + 10
7 + 10 - 10
17 - 10 = 7
Hence, the correct answer is "7".

Q39. Answer: (a) • and ×

Given equation → 18 + 12 ÷ 9 - 30 × 16 = 10
Now, checking options one by one :-
1) + and ×
After interchanging the signs in the given equation, we get:-
18 × 12 ÷ 9 - 30 + 16 = 10
Now, after applying BODMAS Rule, we get:-
18 × 12 ÷ 9 - 30 + 16 = 10
18 × 1.33 - 30 + 16 = 10
23.94 - 30 + 16 = 10 (23.94 ~ 24)
24 + 16 - 30 = 10
40 - 30 = 10
10 = 10
Left hand side is equal to right hand side.
2) + and ÷
After interchanging the signs in the given equation, we get:-
18 ÷ 12 + 9 - 30 × 16 = 10
Now, after applying BODMAS Rule, we get:-
18 ÷ 12 + 9 - 30 × 16 = 10
1.5 + 9 - 30 × 16 = 10 (1.5 ~ 2)
2 + 9 - 480 = 10
11 - 480 = 10
-469 ≠ 10
Left hand side is not equal to right hand side.
3) - and +
After interchanging the signs in the given equation, we get:-
18 - 12 ÷ 9 + 30 × 16 = 10
Now, after applying BODMAS Rule, we get:-
18 - 12 ÷ 9 + 30 × 16 = 10
18 - 1.33 + 30 × 16 = 10 (1.33 ~ 1)
18 - 1 + 480 = 10
18 + 480 - 1 = 10
498 - 1 = 10
497 ≠ 10
Left hand side is not equal to right hand side.
4) ÷ and ×
After interchanging the signs in the given equation, we get:-
18 + 12 × 9 - 30 ÷ 16 = 10
Now, after applying BODMAS Rule, we get:-
18 + 12 × 9 - 30 ÷ 16 = 10
18 + 12 × 9 - 1.875 = 10 (1.875 ~ 2)
18 + 108 - 2 = 10
126 - 2 = 10
124 ≠ 10
left hand side is not equal to right hand side.
Hence, the correct answer is "+ and ×".

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Q40. Answer: (c) 28

The pattern followed here is:

13Δ3 = 20 → (13 - 3) × 2 = 20

12Δ7 = 10 → (12 - 7) × 2 = 10

12Δ5 = 14 → (12 - 5) × 2 = 14

Similarly,

16Δ2 → (16 - 2) × 2 = 28

Hence, the correct answer is '28'.

Q41. Answer: (c) PPPPPPQ

The pattern followed here is,

The letter Q is moving towards the right end in each step.

P	Q	P	P	P	P	P
P	P	Q	P	P	P	P
P	P	P	Q	P	P	P
P	P	P	P	Q	P	P
P	P	P	P	P	Q	P
P	P	P	P	P	P	Q

Hence, the correct answer is 'PPPPPPQ'.

Q42. Answer: (a) 8 km West

According to given information:

Hence, the seller is 8 km to the west of his home.

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

Conclusion I: All pancakes are bread → False (It is possible but not definite)

Conclusion II: No bread is a pizza. → False (All bread are pizzas)

Hence, 'neither conclusion I nor conclusion II follows'.

Q44. Answer: (d) D

The shaded part represents Joggers who are both Equestrians as well as Poets

Hence, the correct answer is "D".

Q45. Answer: (a) WCZ

The pattern followed here is:

S + 1 = T; T + 1 = U; U + 1 = V; V + 1 = W

U + 2 = W; W + 2 = Y; Y + 2 = A; A + 2 = C

N + 3 = Q; Q + 3 = T; T + 3 = W; W + 3 = Z

Hence, the correct answer is "WCZ".

Q46. Answer: (b) 33

The pattern followed here is:

47 - 3 = 44;

44 - 4 = 40;

40 - 3 = 37;

37 - 4 = 33;

33 - 3 = 30.

Hence, the correct answer is "33".

Q47. Answer: (d) (8, 16, 28)

The pattern followed here is:

1) (5, 10, 15) → (5, 5 × 2, 5 × 3)

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2) (7, 14, 21) → (7, 7 × 2, 7 × 3)
3) (6, 12, 18) → (6, 6 × 2, 6 × 3)
4) (8, 16, 28) → [8, 8 × 2, (8 × 3) + 4]
Hence, the correct answer is "(8, 16, 28)".

Q48. Answer: (c) [figure]

The Mirror image is as follows:
Hence, the correct answer is "Option 3".

Q49. Answer: (a) [figure]

Hence, the correct answer is image '1'.

Q50. Answer: (a) 57, 33, 42, 86

By checking all the options:
1) 57, 33, 42, 86 → T, E, A, R
2) 33, 58, 14, 76 → E, Z, E, T
3) 11, 58, 34, 78 → I, Z, L, W
4) 34, 97, 13, 86 → L, P, K, R
Hence, the correct answer is "57, 33, 42, 86".

Q51. Answer: (c) 35

Calculation:
Because 1 feet = 12 inches
So, Length of string = 8 feet 9 inches = (8 × 12) + 9 = 105 inches
Now, as it is divided into 3 parts,
Therefore Length of each part = 105/3 = 35 inches

Q52. Answer: (d) 9801

Calculation:
100 × 100 = 10000
So, the square of any three-digit number is of 5 digits or more
=> 99 × 99 = 9801
So, 9801 is the largest 4-digit perfect square

Q53. Answer: (c) 171

Given:
Total amount = Rs.910
Equal denominations of Rs. 1, Rs.5 and Rs.10
Formula used:
Total amount = No.of coins × denomination
Calculation:
Let the coin of each denomination be a
Total cost = (1 × a) + (5 × a) + (10 × a) = a + 5a + 10a = 16a
According to question,
=> 16a = 912
=> a = 57
Therefore Total number of coins = a + a + a = 3a = 3 × 57 = 171

Q54. Answer: (c) 12

Calculation:
Let the two number be 4x and 3x
According to question,
=> $(4x)^2 - (3x)^2 = 112$
=> $7x^2 = 112$

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=> $x^2 = 16$

=> $x = 4$

Therefore The smallest number = $3x = 3 \times 4 = 12$

Q55. Answer: (c) 1, 2 and 3

As, the two triangles formed by tangents, radius and the line joining the external point to the centre are congruent by SAS rule as,

1. Radius is equal

2. 90° angle as tangent is perpendicular to radius at the point of contact

3. Length of two tangents drawn from an external point to a circle are equal and hence statement 2 is true

So, by CPCT statement 1 and 3 are also true

Q56. Answer: (b) AB + CQ = AC + BQ

Calculation:

As the length of two tangents drawn from an external point to a circle are equal

=> AP = AR

=> BP = BQ

=> CQ = CR

Adding the above three equations, we get

=> AP + BP + CQ = AR + BQ + CR

=> (AP + BP) + CQ = (AR + CR) + BQ

=> AB + CQ = AC + BQ

Therefore option 2 is correct

Q57. Answer: (b) 4

Given:

Increase in price of orange = 30%

No. of less oranges for Rs.208 = 12

Calculation:

Let the price of one orange be Rs. x

Oranges bought for Rs. 208 = 208/x

New price = x + 30% of x = x + 0.3x = 1.3x

Oranges bought for Rs. 208 = 208/1.3x

According to question,

=> (208/x) - (208/1.3x) = 12

=> 208 - 160 = 12x

=> 12x = 48

Therefore x = 4

Shortcut TrickIncrease in price = 30% =3/10

Price	**10**	**13**
Oranges Consumption	13	10

=> 3 units = 12 oranges

=> 1 unit = 4 oranges

=> 13 units = 13 × 4 = 52

Original price of an orange = 208/52 = Rs. 4

Q58. Answer: (d) 129

Given:

The ratio of first and second number = 5 : 2 = 25 : 10

Ratio of second and third number = 5 : 4 = 10 : 8

Product of 1st and 3rd no. = 1800

Calculation:

Ratio of three number = 25 : 10 : 8

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Let three numbers be 25a, 10a and 8a
Product of first and third number = (25a) × (8a) = $200a^2$
According to the question,
=> $1800 = 200a^2$
=> $a^2 = 9$
=> $a = 3$
Now,
Therefore Sum of all numbers = 25a + 10a + 8a = 43a = 43 × 3 = 129

Q59. Answer: (a) 7 : 9

Calculation:
Let 'x' quantity of each of three mixtures to be mixed
Quantity of milk in the new mixture = (1/4)x + (3/8)x + (11/16)x = 21x/16
Quantity of water in the new mixture = (3/4)x + (5/8)x + (5/16)x = 27x/16
Therefore Required ratio = (21x/16) : (27x/16) = 7 : 9
Alternate Method
1 + 3 = 4, 3 + 5 = 8, 11 + 5 = 16
Let the quantity of each sample LCM(4, 8, 16) = 16
Milk in the first sample
=> 16 × 1/(1 + 3)
=> 4
Water in the first sample = 16 - 4 = 12
Milk in the second sample
=> 16 × 3/8
=> 6
Water in the second sample = 16 - 6 = 10
Milk in the third sample
=> 16 × 11/16
=> 11
Water in the second sample = 16 - 11 = 5
Ratio of milk and water in the new mixture
=> (4 + 6 + 11)/(12 + 10 + 5)
=> 21/27 = 7/9
Therefore Required ratio is 7 : 9.

Q60. Answer: (a) 17.26

Given:
Average of 31 numbers = 19
Average of 1st 8 number = 24
Formula used:
Average = Sum of observation/no. of observation
Calculation:
Sum of 31 numbers = 31 × 19 = 589
Now,
Sum of 8 numbers = 24 × 8 = 192
Now,
Sum of remaining numbers = 589 - 192 = 397
Remaining number = 31 - 8 = 23
Therefore Average = 397/23 = 17.26

Q61. Answer: (b) 25

Given:
S.I. for 5 years = 20% of Principal

Formula used:
S.I. = (P × R × T)/100
where P → Principal
R → Rate of interest
T → Time period
Calculation:
Let the principle be Rs. P
According to the question,
=> (P × 5 × rate)/100 = 20% of P
=> rate = 4%
Now, let in t years the simple interest will be equal to the principal
=> Simple interest = (P × 4 × t)/100
=> P = (P × t)/25
Therefore t = 25 years
Shortcut TrickRatio of Pricipal to S.I. in 5 years = 100 : 20
Let Principal be 100, so we are required to make S.I. = 100
=> S.I. of 20 = 5 years
=> S.I. of 100 = 5/20 × 100 = 25 years

Q62. Answer: (a) 23.52

Given:
Ratio of S.P. to C.P. = 13 : 17
Formula used:
Loss = C.P. - S.P.
Loss% = Loss/C.P. × 100%
Calculation:
Let S.P. = 13x and C.P. = 17x
Loss = 17x - 13x = 4x
Loss% = 4x/17x × 100% = 23.52%

Q63. Answer: (d) 15

Given:
Cost of 1 dozen orange = Rs.120
Oranges purchased = 5 dozen
S.P. of 1 orange = Rs. 11.5
Formula used:
Profit = S.P. - C.P.
Profit% = Profit/C.P. × 100%
Calculation:
C.P. of 5 dozen oranges = 5 × 120 = Rs. 600
S.P. of 1 dozen oranges = 12 × 11.5
S.P. of 5 Dozen Oranges = 5 × 12 × 11.5 = Rs. 690
Therefore Profit % = {(690 - 600)/600} × 100 = 15%

Q64. Answer: (a) 5/√2

Calculation:
√18 - 1/(√2)
=> 3√2 - 1/(√2)
=> ((6 - 1))/(√2)
=> 5/(√2)
Therefore simplified value of √18 - 1/(√2) is 5/(√2)

Q65. Answer: (c) 12

Given:
No. of days carpenter promised to do a work = 15 days
No. of carpenter absent = 3
Concept used:
(M1× D1 × H1)/W1 = (M2 × D2× H2)/W2
where M → no. of men/women
D → no. of days
H → no. of hours
Calculation:
Let the number of carpenter be x
=> Time taken = 15 days
Now, as 3 carpenters were absent so,
=> Number of carpenters = (x - 3)
=> Time taken = 20 days
Now, as work done is equal
=> x × 15 = (x - 3) × 20
=> 15x = 20x - 60
=> 5x = 60
Therefore x = 12
Shortcut Trick
Ratio of time in both cases = 15 : 20 = 3 : 4
Efficiency = 4 : 3
=> 1 unit = 3 carpenter
=> 4 unit = 4 × 3 = 12 carpenter

Q66. Answer: (c) 36

Given:
Speed of truck after repairing = 90km/h
Speed of truck before repairing = 80km/h
Time taken to cover x distance after repairing = 8 h
Formula used:
Distance covered = Speed × Time
Calculation:
After repairing,
Distance covered = 90 × 8 = 720 km
=> x = 720 km
Before repairing,
Distance = 4x = 4 × 720 = 2880 km
Speed = 80 km/hr
Therefore Time taken = Distance/speed = 2880/80 = 36 hr

Q67. Answer: (a) 2013

Calculation:
According to the graph in year 2013, 2015 and 2017 the number of deaths were less than that of the previous year
So, option 1 is correct.

Q68. Answer: (c) 2500

Calculation:
Number of deaths in 2011 = 2500
Number of deaths in 2013 = 5000
Therefore Required difference = 5000 - 2500 = 2500

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Q69. Answer: (c) 20%

Calculation:

Number of deaths in 2014 = 6000

Number of deaths in 2017 = 5000

Therefore Required % = {(6000 - 5000)/5000} × 100 = 20%

Q70. Answer: (a) 3750

Calculation:

Number of deaths in year 2016 = 7500

Insurance on 1 death = Rs. 50 lakhs

Therefore Total insurance paid = 7500 × 50 = 375000 lakhs = 3750 crore

Q71. Answer: (d) 49√3

Given:

The side of an equilateral triangle is 14 cm

Formula used:

Area of an equilateral triangle = (√3/4) × side²

Calculation:

Area of an equilateral triangle = (√3/4) × side2

=> (√3/4) × 142 = 49√3 cm2

Therefore Area of an equilateral triangle = 49√3 cm²

Q72. Answer: (a) 7

Given:

Perimeter of a semi-circle = 36cm

Formula used:

Perimeter of a semi-circle = πr + 2r

where r → radius of the circle

Calculation:

According to question,

=> 36 = πr + 2r

=> 36 = (22/7 + 2)r

=> 36 = (36/7)r

Therefore r = 7 cm

Q73. Answer: (d) 1056

Given:

Diameter of right circular cylinder = 28cm

Height = 12cm

Formula used:

Curved Surface area of a right circular cylinder = 2πrh

where r → radius of base of cylinder

h → height of the cylinder

Calculation:

Radius = diameter/2 = 28/2 = 14cm

Therefore Curved Surface area = 2 × (22/7) × 14 × 12 = 1056 cm²

Q74. Answer: (a) -1/2√3

Concept used:

Calculation:

tan30° - (√3/2)

= (1/√3) - (√3/2)

= (2 - 3)/2√3

= -1/2√3

Therefore the value of tan30° - (√3/2) is -1/2√3.

Q75. Answer: (c) 5/13

Given:

ΔDEF is right angled at E

cot D = 5/12

Concept used:

sin θ = p/h

cos θ = b/h

Tan θ = p/b

cot θ = b/p

where p → Perpendicular

b → Base

h → Hypotenuse

Calculation:

Cot D = 5/12

Let b = 5 and p = 12

Now, by Pythagoras theorem,

Hypotenuse = √(p)² + (b)² = √(144² + 25²) = 13

Now, for angle F

=> Perpendicular = base for angle D = 5

Therefore sin F = perpendicular/hypotenuse = 5/13 = 5/13

Q76. Answer: (b) Kandla

• India was the first country to set up Asia's first Export Processing Zone (EPZ) in Kandla in 1965.

• Shannon in Ireland was the place where the first Export Processing Zone (EPZ) was set up in 1959.

• EPZs are the areas within the developing nations that offer a barrier-free environment and incentives to promote economic growth by attracting foreign investment for export-oriented production.

Q77. Answer: (a) 1924

• The Railway Budget and the General Budget were presented separately for the first time in the year 1924.

• The Acworth Committee, chaired by Sir William Acworth, pointed out that the entire railway system needed a unified management, hence on the recommendation of the Committee, the government started presenting the Railway budget separately from the General budget henceforth every year.

Q78. Answer: (d) Western Ganga

The correct answer is Western Ganga.

Key Points

• The title "Dharmaraj" was given to the ruler of South India's Western Ganga dynasty.

• From roughly 350 to 1000 CE, the Western Ganga dynasty ruled over ancient Karnataka in India.

• To distinguish them from the Eastern Gangas, they are referred to as "Western Gangas."

From roughly 350 to 550 CE, the Western Ganga ruled from Kolar.

• Later, they moved their capital to Talakadu on the banks of the Kaveri River in what is now the Mysore region.

Additional Information

• Wakatak:

• In the middle of the third century CE, the Deccan was the place of the genesis of the ancient Indian dynasty known as the Vakataka.

• Pallava:

• From 275 CE to 897 CE, the Pallava dynasty ruled over a sizable area of the Deccan, also known as Tondaimandalam.

• Kadamba:

• An ancient Karnataka royal dynasty was the Kadambas. The kingdom was founded by Mayurasharma in c. 345.

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Q79. Answer: (c) Cotton cloth

The correct answer is Cotton cloth.

Key Points

• The manufacture of cotton cloth was a major industry in the Mughal period.

• The cotton textile manufacturing included the production of muslins, calicos, and piece goods available in a variety of colours and unbleached too.

• The industry also contributed a large part to the empire's international trade.

• The industries during the Mughal period were divided into 2 categories, which were, agricultural-based and non-agricultural-based industries.

Q80. Answer: (d) Ganymede

The correct answer is Ganymede.

Key Points

• Ganymede, the moon of Jupiter is the largest satellite in the entire solar system.

• The mean radius of Ganymede is about 1635 miles.

• It was discovered by Galileo Galilei on Jan 7, 1610.

Additional InformationOther important satellites:

Sattelites	Qualities
Titan	Saturn- second largest
Miranda	Uranus- smallest
Moon	Fifth largest natural satellite
Ganymede	Jupiter- largest

Q81. Answer: (c) Peninsular

The correct answer is Peninsular.

Key Points

• The oldest geographical division of India is the Peninsular plateau.

• It covers a total area of around 16 lakh square km and is roughly triangular in shape.

• The Himalayas form the Northern mountainous region of India, being the highest mountain range in the world.

• Present in front of the Himalayas, the Ganga-Brahmaputra Plain represents a sediment-filled foreland basin.

• The Coastal plain of India stretches from Gujarat to West Bengal, which is divided into western and eastern Coastal plains.

Q82. Answer: (a) Chaitanya

The correct answer is Chaitanya.

Key Points

• Bhakti movement

• The Bhakti Movement originated in the seventh century in Tamil, South India (now parts of Tamil Nadu and Kerala), and spread northwards.

• The first Bhakti Movement was organized by Ramanujacharya.

• He was an exponent of the Vishitadvaita philosophy.

• Chaitanya

• The famous Saint Chaitanya of Bengal was a contemporary of Alauddin Husain Shah.

• Chaitanya Mahaprabhu (1486 - 1534) was a Vedic spiritual leader.

• He founded Gaudiya Vaishnavism.

• Chaitanya was the advocator for the Vaishnava school of Bhakti yoga.

• He is revered as Krishna.

• He popularized the chanting of the Hare Krishna mantra.

• He composed the Siksastakam (eight devotional prayers) in Sanskrit.

Additional Information

• Ramananda

• Saint Ramananda is associated with Ram Magri.

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• Ramananda (14th century) was the chief pioneer of Ram Bhakti.
• For the most part of his life, he lived in Varanasi.
• Born in a Brahmin family, he was a devotional poet.
• His disciples include Saint Kabir, Guru Ravidas, and others.
• Namdev
• He also known as Nam Dayv, Namdeo, or Namadeva, was an Indian poet and saint from Narsi, Hingoli, Maharashtra, India within the Varkari tradition of Hinduism.
• He lived as a devotee of Lord Vitthala (Krishna) of Pandharpur.
• Ramanuja:
• Ramanuja, an 11th-century Vaishnava saint, was the most influential thinker of Vaishnavism.
• His philosophy, known as vishistadvaita, proclaims that the soul retains its identity even after uniting with Brahma.
• He established centers to spread his doctrine of devotion, Srivaishnavism, to God Vishnu and his consort Lakshmi.

Q83. Answer: (a) Iceland

The current answer is Iceland

Key Points

• Iceland, in January 2018 became the first country in the world to pay equal salaries to men and women by passing a law for the same in the Parliament in June.
• As per this law, all companies, both public and private need to prove that their wage practices do not discriminate against women. The only difference that can exist in wages should be on the basis of their skills, outputs, or education.

Q84. Answer: (b) Kazuo Ishiguro

• English author ‘Kazuo Ishiguro’ received the 2017 Nobel Prize for Literature. So far, he has written 4 screenplays, 5 works in short fiction, and 7 novels. He was also a recipient of the ‘Man Booker Prize’ in 1989 for his novel ‘The Remains of the Day’.
• Nobel Prize is an annual international award presented under several categories by Norwegian and Swedish institutions in the fields of scientific, cultural, and academic advances.

Bob Dylan	**Literature- 2016**
Kazuo Ishiguro	Literature- 2017
Oliver Hart	Economic Sciences- 2016
Yoshinori Ohsumi	Physiology or Medicine- 2016

Q85. Answer: (c) Bangabhaban

The correct answer is Bangabhaban.

Key Points

• Bangabhaban:-
• The official ‘Residence-cum-office’ of the President of Bangladesh is called ‘Bangabhaban’.
• It is located in Dhaka. It was used by the Governor of Bengal and the Viceroy of India during British Rule.

Additional Information

• Amar Sonar Bangla:-
• It is also pronounced "Amar Shonar Bangla" is the national anthem of Bangladesh.
• An ode to Mother Bengal, the lyrics were written by Bengali polymath Rabindranath Tagore in 1905 while the melody of the hymn was adopted from the Baul singer Gagan Harkara's song "Ami Kothay Pabo Tare".
• The modern instrumental rendition was arranged by Samar Das.
• Rabindranath Tagore won the Nobel Prize for Literature in 1913 for his collection "Gitanjali (Song Offerings)" published in London in 1912.

Q86. Answer: (a) Only I and II

A metal refers to an alloy, compound, or element which is a ductile, malleable and good conductor of both heat and electricity. The other properties of metals include:
• They have high boiling and melting points.
• They are hard and cannot be broken easily.
• They are physically lustrous.
• They react with non-metals to form ionic bonds.

Concept:

Metals

• Metals are shiny in appearance.

• Solid metals are good conductors of electricity.

• Metals are strong and hard.

• Metals are malleable and ductile.

Key PointsMalleability

• The property of a substance that describes its ability to bent or is hammered into a thin sheet without breaking.

• Gold is the most malleable and ductile of all metals.

• Gold can be rolled and beaten to a thickness less than the wavelength of visible light, but so far there has been no scientific explanation of this unique property.

The most malleable metal is Silver.

• Gold, Silver, Aluminium are highly malleable metals. Out of the given options, Silver (Ag) is the most malleable.

• Generally, metals are hard. Exception: Sodium (Na) and potassium (K) are soft and can be easily cut by a knife.

Q87. Answer: (b) atom

The correct answer is an atom.

Explanation;

Dalton's atomic theory

• 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 in fixed whole-number ratios to form compounds.

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

• Dalton based his theory on the law of conservation of mass and the law of constant composition.

• Though Dalton was the first to discover the atomic theory of matter there were certain limitations or drawbacks of his atomic theory which are as follows:-

• Limitations of Dalton's Atomic Theory:

• Atoms consist of particles like electrons, protons, and neutrons but Dalton said atoms are indivisible and can neither be created nor be destroyed.

• The Discovery of isotopes revealed that the atoms of the same element possess different weights

Q88. Answer: (a) The President of India

The correct answer is The President of India.

Key Points

• The Chief Election Commissioner of India:-

• It is appointed by the President of India.

• The Chief Election Commissioner of India is usually a member of either the Indian Administrative Service or the Indian Civil Service.

• The current Chief Election Commissioner of India is Rajiv Kumar.

Additional Information

• Chief Justice of India:-

• CJI is the highest-ranking officer of the Indian federal judiciary.

• The Chief Justice of India and the Judges of the Supreme Court are appointed by the President under clause (2) of Article 124 of the Constitution.

• Appointment to the office of the Chief Justice of India should be of the seniormost Judge of the Supreme Court considered fit to hold the office.

• The Union Minister of Law at the appropriate time, seeks the recommendation of the outgoing Chief Justice of India for the appointment of the next Chief Justice of India.

• Prime Minister of India:-

• The prime minister is appointed by the president of India; however, the prime minister has to enjoy the confidence of the majority of Lok Sabha members, who are directly elected every five years, lest the prime minister shall resign.

• A member of either the Lok Sabha or the Rajya Sabha can be appointed as the Prime Minister.

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• Other Ministers shall be appointed by the President on the advice of the Prime Minister.

• Home Minister of India:-

• The Ministry of Home Affairs (MHA) is responsible for carrying out a wide range of duties.

• The most significant of these are internal security, border management, center-state relations, administration of union territories, command of the Central Armed Police Forces, and disaster management.

• Amit Shah is the current Home Minister of India.

Q89. Answer: (b) Both I and II

The correct answer is Both I and II.

Key Points

• Attorney General of India:-

• It is a part of the Union Executive.

• He is the highest law officer in the country.

• Article 76 provides for the Attorney General of India, hence it is a constitutional office.

• His term is not fixed by the constitution and he works at the pleasure of the President.

• Functions-

• To advise, the government upon such legal matters, referred by President.

• To appear on behalf of the GoI in all cases in the Supreme Court or in High Court.

• To represent the GoI in any reference made by the President to the Supreme Court under Article 143.

• To discharge the functions conferred by on him by the constitution or any other law.

• Governor of any State :

• He is appointed by President by warrant under his hand and seal.

• They remain in office as per the wishes of the President.

• Executive powers of State are embedded within him.

• Generally, they remain in office for five years.

• Comptroller and Auditor General of India:-

• CAG is an independent authority under the Constitution of India.

• He is the head of the Indian audit & account department and chief Guardian of the Public purse.

• It is the institution through which the accountability of the government and other public authorities (all those who spend public funds) to Parliament and State Legislatures and through them to the people is ensured.

• The present Comptroller and Auditor General of India as on November 2022 is Girish Chandra Murmu (from 2020).

• CAG does not hold office during the pleasure of the President.

Q90. Answer: (b) Mucus

The correct answer is Mucus.

Explanation:

• The stomach consists of a lining of mucus cells which protect the lining of the stomach from the action of hydrochloric acid.

• The mucus cells are destroyed and produced every day, by protecting the lining of the stomach from the action of HCl.

Q91. Answer: (c) Characteristics

The correct answer is Characteristics.

Explanation:

• Characteristics are details of appearance or behaviour or in other words, a particular form or a particular function in the classification of organisms.

• The formation of distinct and new species in the course of evolution is known as speciation.

• Evolution is the process of change of all life forms over generations.

• An Illustration is a visual explanation or interpretation of any process, concept, or text.

Q92. Answer: (b) DISCOM

• UDAY or 'Ujwal DISCOM Assurance Yojana' is a scheme which was launched by the government in 2017 for revival package and financial turnaround for state electricity distribution companies.

• The aim of the scheme is to make discoms operationally and financially healthy so that they supply adequate power at affordable prices.

Q93. Answer: (a) Falcon 9

The correct answer is Falcon 9

Key Points

• The Secret Zuma Mission for the United States government was launched on board SpaceX's Falcon 9 rocket in January 2018 from the Cape Canaveral Air Force Station, Florida, US.

• SpaceX (Space Exploration Technologies Corporation) is a privately-owned aerospace manufacturer founded by Elon Musk.

• Elon Musk is also the current CEO (Chief Executive Officer) and CTO (Chief Technology Officer) of the organization.

• It was founded in the year 2002.

• It offers products like launch vehicles, rocket engines, spacecraft, etc.

• It is headquartered in Hawthorne, California, US.

Q94. Answer: (a) 2017-20

• The 'National Trade Facilitation Action Plan' was formulated for the implementation of the World Trade Organisation's'Trade Facilitation Agreement' (TFA). It will be implemented in between the years 2017-20.

• It aims to transform the cross-border clearance ecosystem through digital, technology-driven, seamless, coordinated, risk-based, efficient, and transparent procedures which are supported by advanced land borders, airports, and seaports.

Q95. Answer: (c) Deposit

• The Government of India has been actively working on the provisions of 'FRDI' Bill, 2017. FRDI or 'Financial Resolution and Deposit Insurance' Bill, was tabled in the Parliament in August 2017.

• It is a part of a larger and more comprehensive approach towards a systematic resolution of all financial firms- insurance companies, banks, and other financial intermediaries.

Q96. Answer: (d) 50

The correct answer is 50.

Key Points

Pressure = Force/Area

therefore, Pressure = 800/16= 50 Pa (Pascal- unit of pressure).

Q97. Answer: (d) m/s²

The correct answer is m/s²

Key Points

• Acceleration:-

• The rate of change of velocity of the object is called acceleration. Generally, it is considered a vector quantity.

• The SI unit of velocity is m/s and time is second.

• It has magnitude as well as direction.

Q98. Answer: (c) lighter than cold air hence warm air rises up

The correct answer is lighter than cold air hence warm air rises up

Key Points

• Warm air is lighter (less dense) than cold air, hence it rises up.

• When the air is heated it expands and becomes less dense than the air around it. It then tends to rise up.

Q99. Answer: (a) Only B

• Roger Federer won the Tennis 2017 Australian Open Men's Singles.

• In 2017, Maverick Viñales raced in MotoGP for Yamaha.

• Sebastian Vettel and Kimi Räikkönen raced in the Formula One for Ferrari in 2017.

Q100. Answer: (d) Indentation

The correct answer is Indentation.

Key Points

• In Microsoft Word, the first line and hanging are special forms of indentation.

• Alignment lets you position your text as you want.

• Line spacing or spacing allows you to customize the space between a line in a paragraph.

• Effects let you change the look of your text by changing the outline, changing colour, or adding any effects to make it look good,

different, or better.

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