SSC CHSL Previous Paper 16 (Held On: 11 March 2018 Shift 1) (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. Directions: In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) recuparate
(b) rekuperate
(c) rekuparate
(d) recuperate

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

Finally, what is left are an

A - innocuous bunch of audit

B - queries, useful for auditors and

C - harmless for the staff member

(a) ABC
(b) CBA
(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".

Needless to say, cooking (has become) easier now.

(a) is become
(b) has becoming
(c) have become
(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".

The footpath (had been hijacked) by gigantic blue-and-green barricades.

(a) have been hijacked
(b) have being hijacked
(c) had been hijacking
(d) no improvement

Q5. 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.

“Do you really come from Spain?” said the Queen.

(a) The Queen asked did he really came from Spain.
(b) The Queen enquired about his country.

(c) The Queen asked whether he really came from Spain.
(d) The Queen ask which country he is from.

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

Break up into small parts as the result of impact or decay

(a) Disintegrate
(b) Juxtapose
(c) Conjugate
(d) Entwine

Q7. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Gratify an immoral or distasteful desire

(a) Depress
(b) Frustrate
(c) Offend
(d) Pander

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

A sea change

(a) A profound or notable transformation
(b) An upcoming storm.
(c) Someone who appears turbulent on the outside but is actually calm deep inside.
(d) As you go deeper into the situation you will see a very different picture.

Q9. Directions: In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Catch red-handed

(a) Apprehend someone in the course of wrongdoing.
(b) Successfully accomplish a difficult physical task
(c) Catch someone with colour on his hands.
(d) Be warned of imminent danger.

Directions

Direction 13 to 17: 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.

These terms imply two different distinct functions of the human mind. The active function _____ the volitional, voluntary thinking. It is the conscious focusing of the mind _____ some mental problem. Banishing _____ the mind all thoughts and ideas _____ in harmony with your special subject of study implies Active Mentation. This function is used _____ the active, wide-awake man in his busy and energetic moments.

Q10. This function is used _____the active, wide-awake

(a) By
(b) with
(c) plus
(d) around

Q11. and ideas _____ in harmony with your special

(a) do not
(b) no
(c) neither
(d) not

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Q12. Banishing _____the mind all thoughts

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

Q13. the mind _____some mental

(a) In
(b) Of
(c) On
(d) To

Q14. The active function _____ the volitional

(a) performs
(b) perform
(c) performing
(d) performed

Q15. 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) Exhilarate
(b) Exhilrate
(c) Exhielarate
(d) Eshilariate

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.

She made a very remarkable observation.

(a) A very remarkable observation made by her.
(b) A very remarkable observation is make by her.
(c) A very remarkable observation make by her
(d) A very remarkable observation was made by her.

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

Private companies are

P : exploiting groundwater

Q : resources in India

R : due to outdated law

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

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

Moot

(a) Open
(b) Doubtful
(c) Definite
(d) Controversial

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

Halcyon

(a) Calm
(b) Gentle
(c) Palmy
(d) Agitated

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

Lucid

(a) Murky
(b) Clear
(c) Dim
(d) Dumb

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

Hyperbole

(a) Spoliation
(b) Overstatement
(c) Simplification
(d) Injury

Q22. Directions: 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.

Career _____ the kind of lifestyle one will lead and his/her position in the society.

(a) determined
(b) determines
(c) deter
(d) has been determined

Q23. Directions: 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 needs to _____ his soul.

(a) bare
(b) bear
(c) beer
(d) bee

Q24. Directions: 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'.

We wish to make globalization a means to expand human well being and freedom, (1)/ and to bring democracy and developmental (2)/ to local communities where people live. (3)/ No error (4)

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

Q25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The person were (1)/ duly rewarded (2)/ for her bravery. (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.

Sedimentary : Rocks : : ? : ?

(a) Rock : Strong
(b) Alluvial : Soil
(c) Water : Hot
(d) Moon : Planet

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

56 : 51 : : 76 : ?

(a) 71
(b) 69
(c) 73
(d) 75

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

WYU : PRN : : TPJ : ?

(a) MIC
(b) NJD
(c) MJC
(d) NID

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

(a) Gold – Metal
(b) Pencil – Stationery
(c) Animal – Lion
(d) Car – Vehicle

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) 5 - 10
(b) 6 - 11
(c) 7 - 12
(d) 8 - 15

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

(a) UNG
(b) PKD
(c) WPI
(d) XQJ

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

1. Faint
2. Facelift
3. Facade
4. Fade
5. Fake

(a) 32415
(b) 52143

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(c) 32541
(d) 25431

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

13, 17, ?, 28, 35, 43

(a) 20
(b) 22
(c) 25
(d) 26

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

XRN, UPM, RNL, ?, LJJ

(a) PKL
(b) OLK
(c) OML
(d) OMK

Q35. Aman started running from his school, he first ran for 11 km towards south, then he turned towards west and ran √23 km in that direction. How far (in km) and in which direction is Aman now from his school?

(a) 10, South-West
(b) 15, South-East
(c) 12, South-West
(d) 17, South-East

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

CATROPHOBIA

(a) PHOTO
(b) CAT
(c) BIT
(d) BIOLOGY

Q37. In a certain code language, “blue” means “car”, “car” means “wood”, “wood” means “rice”, “rice” means “chair” and “chair” means “table”. What do we eat?

(a) rice
(b) chair
(c) wood
(d) blue

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

14 × 10 ÷ 5 - 20 + 4 = ?

(a) 19
(b) 29
(c) 34
(d) 50

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

5 + 8 ÷ 40 - 20 × 25 = 6

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

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Q40. If 20 # 4 = -5, 50 # 25 = -2 and 80 # 16 = -5, then find the value of 10 # 2 = ?

(a) -30
(b) -40
(c) -20
(d) -5

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

QPRQPQPQ, QPQPRQPQ, QPQPQPRQ, QRPQPQPQ, QPQRPQPQ, _____.

(a) RQPQPQPQ
(b) QPRQPQPQ
(c) QPQPRQPQ
(d) QPQPQRPQ

Q42. A woman is returning from the city to her village. She walks 2 km North, then turns West and walks 5 km, then turns South and walks 2 km, then turns to her right and walks 7 km. Where is she now with reference to her starting position?

(a) 2 km West
(b) 12 km East
(c) 12 km West
(d) 2 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 commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All hats are caps

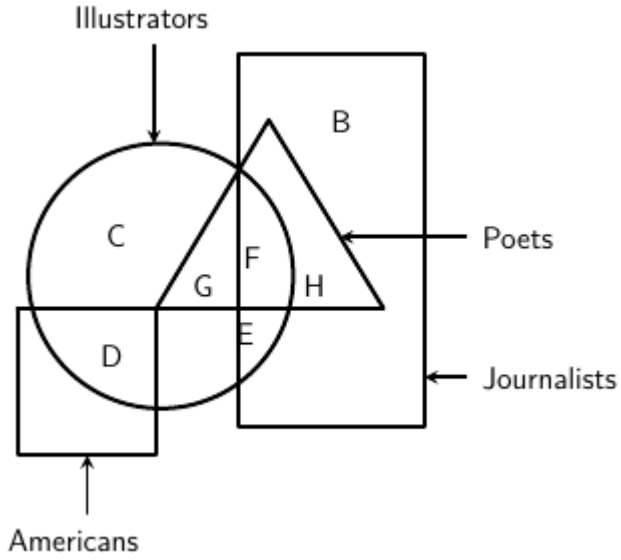
Statement II: All headgears are hats

Conclusion I: No caps are headgears

Conclusion II: No headgears are caps

(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 Journalists, circle represents Illustrators, triangle represents Poets and square represent Americans. Which set of letters represents Americans who are not Illustrators?



(a) AD
(b) CGFE
(c) A

(d) FE

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

AHF, FMK, KRP, ?, UBZ

(a) PWV
(b) RXU
(c) PWU
(d) RXV

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

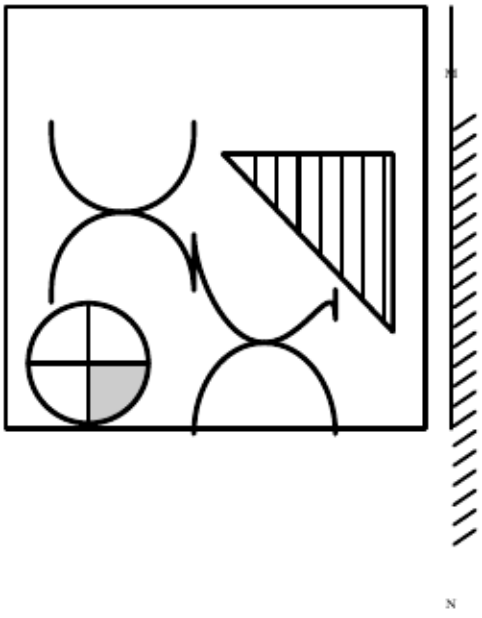
178, 172, 166, 160, ?, 148

(a) 156
(b) 154
(c) 152
(d) 158

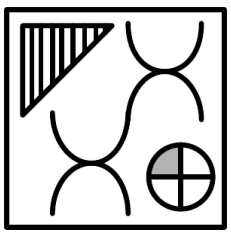
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (47, 44, 41)
(b) (49, 46, 43)
(c) (59, 56, 53)
(d) (91, 88, 84)

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

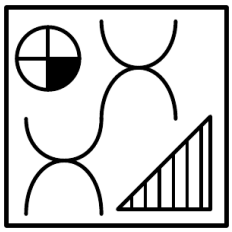


(a)

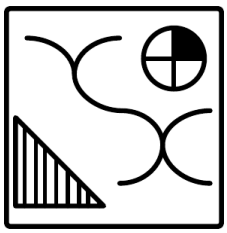


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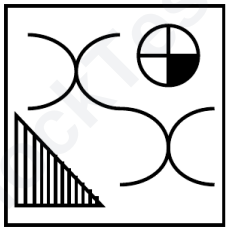
(b)



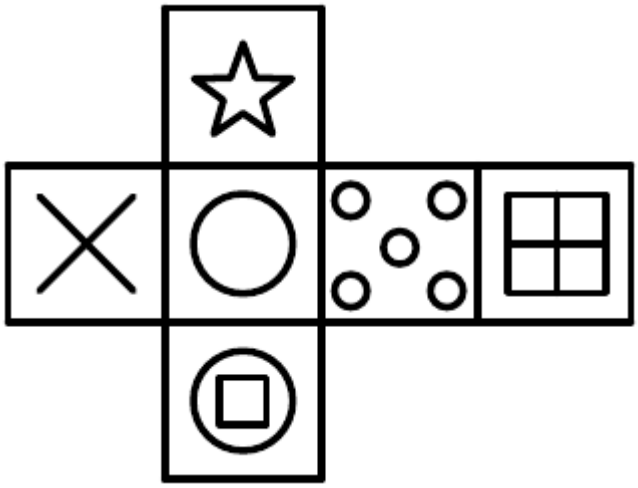
(c)



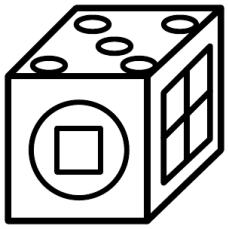
(d)



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

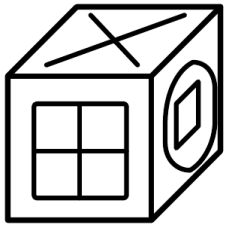


(a)

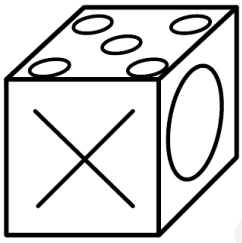


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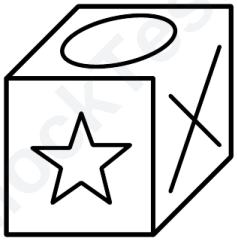
(b)



(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 resented 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 a Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and row and next by its column, for example, ‘A’ can be represented by 31, 23 etc., and ‘R’ can be represented by 56, 98 etc. Similarly, you have to identify the set for the word “ECHO”.

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

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

(a) 42,44,14,97
(b) 14,78,13,66
(c) 22,69,11,75

(d) 14,87,32,67

QUANTITATIVE APTITUDE

Q51. Find the value of '?' in $5^{12} \times 125 \div 15625 = 3125 \times 25^{?}$

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

Q52. Divide 150 into two parts such that the sum of their reciprocals is 3/112. Calculate both the parts.

(a) 50, 90
(b) 70, 80
(c) 60, 90
(d) 50, 100

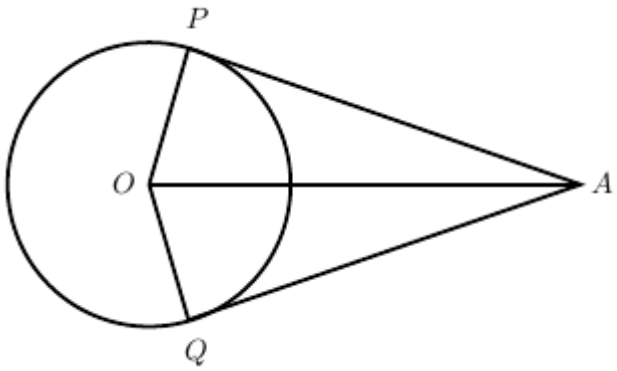
Q53. Find the value of $(5\sqrt{3})/2 + \sqrt{108}$

(a) $(7\sqrt{3})/2$
(b) $(17\sqrt{3})/2$
(c) $(27\sqrt{3})/2$
(d) $(37\sqrt{3})/2$

Q54. If $a^2 + 1/(a^2) = 38$, then find the value of $(a - 1/a)$

(a) 2
(b) 4
(c) 6
(d) 8

Q55. Choose the CORRECT option for the figure shown below.



(a) angle AOP = angle AOQ
(b) angle OAP = angle OQA
(c) AO = OQ
(d) AP = AO

Q56. If the side of the equilateral triangle is $8\sqrt{3}$ cm, then what is the length (in cm) of the inradius of the triangle?

(a) 2
(b) 4
(c) $8\sqrt{3}$
(d) $16\sqrt{3}$

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Q57. The population of a town is 350000. It increases annually at the rate of 20%. What will be the population after 2 years?

(a) 490000
(b) 497000
(c) 504000
(d) 508000

Q58. The incomes of P and Q are in the ratio 4 : 7 and their expenditures are in the ratio 3 : 7. If P saves Rs 10000 and Q saves Rs. 7000, then what will be the income (in Rs.) of P?

(a) 28000
(b) 23000
(c) 30000
(d) 19000

Q59. Akash starts a business with Rs. 85000 and Payal joins him with Rs. 102000. If the profit at the end of a year is divided in the ratio 1 : 1, then after how many months did Payal join Akash?

(a) 3
(b) 2
(c) 9
(d) 8

Q60. What is the average of all the one digit, two digit and three digit natural numbers?

(a) 300
(b) 500
(c) 1000
(d) 1250

Q61. If the time increases by 7 years, then the simple interest increases by Rs.8400 on a sum of Rs.6000. What is the rate (in percentage) of interest per annum?

(a) 18
(b) 12
(c) 20
(d) 24

Q62. Cost price of a refrigerator is Rs. 13400. If loss percentage is 4%, then what is the selling price (in Rs.) of the refrigerator?

(a) 12203
(b) 12864
(c) 14420
(d) 11312

Q63. On Selling a toy at 20/31 of the marked price there is a loss of 20%. What will be the ratio of marked price and cost price of the toy?

(a) 31 : 18
(b) 25 : 18
(c) 31 : 25
(d) 23 : 18

Q64. What is the value of (√128 + √72)/√32

(a) 3.5
(b) 7
(c) 4.5
(d) 9

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Q65. Two pipes X and Y can fill an empty tank in 16 hours and 20 hours respectively. Pipe Z alone can empty the completely filled tank in 25 hours. Firstly both pipes X and Y are opened and after 6 hours pipe Z is also opened. What will be the total time (in hours) taken to completely fill the tank?

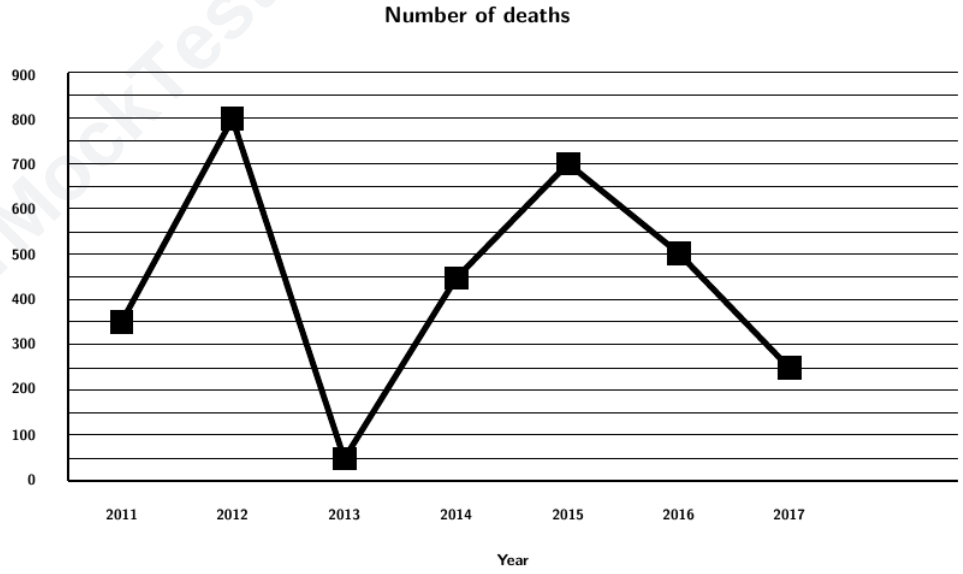
(a) 80/7
(b) 67/7
(c) 28/3
(d) 304/29

Q66. A person crosses a 700 metres wide road in 120 seconds. What is his speed (in km/hr)?

(a) 24
(b) 21
(c) 36
(d) 27

Directions

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



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

(a) 2013
(b) 2012
(c) 2014
(d) 2015

Q68. What was the difference in the number of deaths between the years 2017 and 2013?

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

Q69. The number of deaths in 2016 were lesser than that in 2012 by _____.

(a) 0.5
(b) 0.6
(c) 0.225
(d) 0.375

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Q70. If on an average Rs. 20 lakhs was paid as insurance for each death due to a heart attack, then how much insurance was paid (in Rs crore) in the year 2013?

(a) 1000
(b) 100
(c) 20
(d) 200

Q71. What must be the length (in cm) of the diagonal of a rectangle if its area and breadth are 60 cm^2 and 5 cm respectively?

(a) 26
(b) 8
(c) 16
(d) 13

Q72. The area of a circle is 616 cm^2. What is its circumference (in cm).

(a) 176
(b) 88
(c) 70
(d) 140

Q73. What is the curved surface area (in cm^2) of a hemisphere of diameter 42 cm?

(a) 2332
(b) 1778
(c) 1556
(d) 2772

Q74. What is the value of (tan60° + 1/3) ?

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

Q75. ΔPQR is right angled at Q. If cos P = 3/5, then what is the value of cos R?

(a) 3/4
(b) 5/3
(c) 4/5
(d) 4/3

GENERAL AWARENESS

Q76. Which of the following statement is true for instruments of Monetary Policy?

(a) Open Market Operations
(b) Bank Rate Policy
(c) Selective credit controls
(d) All options are correct

Q77. Annual plans were adopted during the which of the following years?

(a) 1990-1992
(b) 1987-1990
(c) 1992-1994
(d) No option is correct.

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Q78. Who gave the title of Raja to Ranjit Singh?

(a) Diwan Shah
(b) Lord Lake
(c) Zaman Shah
(d) King of Kashmir

Q79. Who of the following was the last Governor General of Bengal?

(a) William Bentinck
(b) Warren Hastings
(c) Lord Canning
(d) Lord Wellesley

Q80. Which of the following is NOT a metamorphic rock?

(a) Slate
(b) Schist
(c) Diorite
(d) Phyllite

Q81. Which of the following is the second highest mountain peak in the world?

(a) Godwin Austen
(b) Kanchenjunga
(c) Nanda Devi
(d) Nanga Parvat

Q82. "Yakshagana" folk dance is associated to which Indian state?

(a) Kerala
(b) Karnataka
(c) Tamil Nadu
(d) Andhra Pradesh

Q83. In which of the following country militants killed more than 230 people attacking at a mosque on 24th November, 2017?

(a) Pakistan
(b) Afghanistan
(c) Iran
(d) Egypt

Q84. Who among the following has been awarded the Indira Gandhi Award for National Integration on October 31, 2017?

(a) Praveen Nair
(b) Pankaj Ruhela
(c) T.M. Krishna
(d) K.R. Reddy

Q85. Pakistan is located in which part of Asia?

(a) Southern Asia
(b) Northern Asia
(c) Eastern Asia
(d) No option is correct.

Q86. What is the other name of sodium carbonate?

(a) Baking soda
(b) Washing soda
(c) Baking powder
(d) No option is correct.

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Q87. Match the following items of column (A) with column (B).

Column A	Column B
I. Vinegar	1. Tartaric Acid
II. Orange	2. Lactic Acid
III. Tamarind	3. Acetic Acid
IV. Sour milk	4. Citric Acid

(a) I – 3, II – 4, III – 1, IV – 2
(b) I – 4, II – 3, III – 1, IV – 2
(c) I – 3, II – 4, III – 2, IV – 1
(d) I – 3, II – 2, III – 1, IV – 4

Q88. Who among the following is NOT a member of any of the two Houses of the Indian Parliament?
I. Prime Minister of India
II. Finance Minister of India
III. President of India
(a) Only I
(b) Only II
(c) Only III
(d) Both II and III

Q89. Who appoints the chairman of all the parliamentary committees of Lok Sabha?
(a) President of India
(b) Prime Minister of India
(c) Speaker of Lok Sabha of India
(d) Home Minister of India

Q90. The alimentary canal is a long tube that extends from _____.
(a) Mouth to stomach
(b) Stomach to large intestine
(c) Small intestine to anus
(d) Mouth to anus

Q91. Which among the following have a perfect pair of sex chromosomes?
(a) Only men
(b) Only women
(c) Both men and women
(d) Neither men nor women

Q92. Under Pradhan Mantri VayaVandanaYojana (PMVVY), there will be an assured periodic return over tenure of _____.
(a) 5 years
(b) 10 years
(c) 15 years
(d) 20 years

Q93. What is the name of the most advance reading machine for visually challenged developed by CSIR?
(a) Divya Nayan
(b) Drishti
(c) Darshan
(d) Divya Paath

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Q94. Induslnd Bank recently signed loan agreement of $ 200 million with _____ to provide finance to low-income women borrowers in rural India.

(a) Asian Development Bank
(b) World Bank
(c) Asian Infrastructure Investment Bank
(d) None of these

Q95. On 28 July 2017, Lok Sabha passed Indian Institutes of Management (IIM) Bill, 2017. The Bill has a provision to place the annual report of the IIM's in the parliament and auditing of their accounts by _____.

(a) Chief Economic Adviser
(b) Economic Affairs Secretary
(c) Comptroller and Auditor General
(d) Attorney General

Q96. A body of mass 18 kg is moving with a velocity of 6 m/s find its momentum.

(a) 108
(b) 4.5
(c) 54
(d) 9

Q97. The rate of change of linear momentum of a body is proportional to the _____ acting on it.

(a) Impulse
(b) Torque
(c) Force
(d) Kinetic Energy

Q98. The swift movement of the falling water droplets along with the rising air create lightning and sound. It is this event that we call a _____.

(a) Thunderstorm
(b) Hail
(c) Twister
(d) Cloudburst

Q99. Which of the statements given below are correct?

A) In 2017, David Warner captained the IPL team Sunrisers Hyderabad.
B) In 2017, Rome lu Lukaku played for the Premier League team Manchester City.
C) Canada hosted the Table Tennis 2017 ITTF Men's World Cup.

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

Q100. MS-Excel is an integral component of _____.

(a) MS-Office
(b) MS-Word
(c) Gnome Office
(d) Koffice

ANSWER KEY

1	d	2	a	3	d	4	d	5	c	6	a	7	d	8	a	9	a	10	a
11	d	12	b	13	c	14	a	15	a	16	d	17	b	18	c	19	d	20	b
21	b	22	b	23	a	24	b	25	a	26	b	27	a	28	a	29	c	30	d

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31	b	32	a	33	b	34	b	35	c	36	d	37	b	38	b	39	c	40	d
41	d	42	c	43	d	44	c	45	c	46	b	47	d	48	a	49	c	50	a
51	c	52	b	53	b	54	c	55	a	56	b	57	c	58	a	59	b	60	b
61	c	62	b	63	c	64	a	65	d	66	b	67	a	68	d	69	d	70	b
71	d	72	b	73	d	74	c	75	c	76	d	77	a	78	c	79	a	80	c
81	a	82	b	83	d	84	c	85	a	86	b	87	a	88	c	89	c	90	d
91	b	92	b	93	a	94	a	95	c	96	a	97	c	98	a	99	a	100	a

SOLUTIONS

Q1. Answer: (d) recuperate

The correct answer is 'recuperate'

Key Points

• The meaning of the given word 'recuperate' is 'recover from illness or exertion'

• Let's see the word in the given sentence-

• I went away to the country to recuperate.

Q2. Answer: (a) ABC

The correct answer is 'ABC'

Key Points

• The last word of the fixed sentence is 'an' hence the next word should have a sound of vowel and this word we can see in sentence A

• Hence, after looking at the options we can directly say that the answer is 'option 1'

So the correct sentence is- Finally, what is left are an innocuous bunch of audit queries, useful for auditors and harmless for the staff member.

Q3. Answer: (d) no improvement

The correct answer is 'No improvement'

Key Points

The given underlined phrase doesn't need any improvement.

• According to grammar, the present perfect tense is used to tell when the situation is happened and still continuing in the present.

• Let's see the given options-

• 'has becoming' is incorrect because 'with has we can't write 'becoming' which is -ing form of the verb.'

• 'have become' is incorrect because with the singular noun we need to use the singular verb. In the given sentence, the subject is 'cooking' which is singular in number.

• So the given phrase doesn't need any improvement.

So the correct sentence- Needless to say, cooking has become easier now.

Q4. Answer: (d) no improvement

The correct answer is 'No improvement'

Key Points

• In the given sentence, the usage of 'had been hijacked' is correct.

• We need a passive voice in the sentence to show that the doer of hijacking is somebody else's.

• Let's see the options-

• 'have been hijacked' we can't write 'have' with the singular subject because the noun 'footpath' is singular.

• 'have being hijacked' we can't write the -ing form of the verb with 'have' hence it is incorrect.

• 'Had been hijacking' as it is already stated that we need a passive voice and the structure of the passive voice is 'been +V3' hence this option is also incorrect.

So the correct sentence is- The footpath had been hijacked by gigantic blue-and-green barricades.

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Q5. Answer: (c) The Queen asked whether he really came from Spain.

The correct answer is 'The Queen asked whether he really came from Spain'

Key Points

• Let's see the following steps to change the Direct speech to Indirect speech-

• Firstly, see the type of sentence. The given sentence is an imperative sentence and interrogative sentence because the reported speech starts with a verb i.e. 'do' also at the end of the sentence we have a question mark.

• Secondly, see the tense of the verb the given sentence is in the present tense.

• Thirdly, if we have a question mark in the sentence then we have to use 'if/whether' in the indirect speech.

• So after following these steps the correct indirect speech is- The Queen asked whether he really came from Spain.

Q6. Answer: (a) Disintegrate

The correct answer is 'Disintegrate'

Key Points

• The meanings of the words are:

• Disintegrate →divide into small parts

• Juxtapose → place side by side

• Conjugate → coupled; connected

• Entwine →wound

So according to the meanings of the given words, the correct answer is 'Disintegrate'

Q7. Answer: (d) Pander

The correct answer is 'Pander'.

Key Points

• Let's see the meanings of the words are:

• Depress→ make sad

• Example: The ongoing bad news about the economy tends to depress a lot of people.

• Frustrate→ prevent (a plan or attempted action) from progressing, succeeding, or being fulfilled.

• Example: It frustrates me when my internet connection is slow and I can't get my work done on time.

• Offend → to annoy

• Example: The comedian's racially insensitive joke offended many in the audience.

• Pander → gratify or indulge (an immoral or distasteful desire or taste or a person with such a desire or taste).

• Example: The politician's promises to lower taxes without outlining any feasible plan seemed like an attempt to pander to the voters.

So according to the meaning of the given words, the correct answer is 'Pander'.

Q8. Answer: (a) A profound or notable transformation

The correct answer is 'A profound or notable transformation'

Key Points

• The meaning of the given idiom 'A sea change' is a complete change in someone's attitudes or behavior'

• Let's see an example-

• They are also part of a sea change in the capital's hotel industry.

Q9. Answer: (a) Apprehend someone in the course of wrongdoing.

The correct answer is 'Apprehend someone in the course of wrongdoing'

Key Points

• The meaning of the given idiom 'Catch red-handed' is 'they are caught while they are in the act of doing something wrong.'

• Let's see an example-

• My friend and I robbed a store and were caught red-handed.

Q10. Answer: (a) By

The correct answer is 'by'

Key Points

• According to grammar, 'by' preposition is used 'to tell 'through the agency or means of' hence, in the given sentence we need to tell how it is going to be 'used'

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• So the correct sentence is- This function is used by the active, wide-awake.

Q11. Answer: (d) not

The correct answer is 'not'

Key Points

• According to parts of speech, 'not' is an adverb and 'no' is an adjective.

• In the given blank, we need 'not' which is qualifying the prepositional phrase 'in harmony'

• We can't use the 'do not' because we don't need a helping verb in the blank. Hence, 'not' is the correct answer.

Q12. Answer: (b) From

The correct answer is 'from'

Key Points

• According to grammar, the meaning of the word 'banish' is 'to send someone away, especially from their country, and not allow them to come back'

• We use the prepositions 'to' and 'from' with this verb.

• Let's see the concept of 'to and from'

• Banish to- we use the preposition 'to' when we are sending someone from somewhere.

• He was banished to an uninhabited island for a year.

• Banish from- we use the preposition 'from' when the meaning of the word is 'to get rid of something completely'

• Try to banish all thoughts of revenge from your mind.

So according to the meaning given the correct answer is 'banish from'

Q13. Answer: (c) On

The correct answer is 'On'

Key Points

• According to grammar, 'focus on' is a phrasal verb that means 'to give most of your attention to someone or something'

• Let's see an example-

• Try to focus on the most important facts.

So the correct sentence is- the mind on some mental

Q14. Answer: (a) performs

The correct answer is 'performs'

Key Points

In the given blank, we need to fill 'performs'

• According to grammar, whenever the subject of the sentence is singular then the verb should be singular.

• Hence, in the sentence, the subject is 'function' which is singular, and in the options, there is only one singular verb which is 'performs'

So the correct sentence is- The action function performs the volitional.

Q15. Answer: (a) Exhilarate

The correct answer is 'Exhilarate'

Key Points

• The correct spelling is 'Exhilarate'

• Let's see the meaning of the given word- to give someone strong feelings of happiness and excitement

• Let's see an example-

• Its effect is an exhilarating regression that undoes the vestments of selfhood.

Q16. Answer: (d) A very remarkable observation was made by her.

The correct answer is 'A very remarkable observation was made by her.'

Key Points

• Let's see the following steps while changing the Active voice into the passive voice-

• Firstly, see the tense of the sentence because the tense in the active voice and the passive voice doesn't change.

• Secondly, see whether the sentence has an object. If it doesn't have the object look for the infinitive verb and make the passive of the infinitive verb.

• Thirdly, the subject of the active voice changes into the object of the sentence in the passive voice, and the object becomes the

subject of the sentence.

• So following these steps we get the correct passive voice which is- A very remarkable observation was made by her.

Q17. Answer: (b) PQR

The correct answer is 'PQR'

Key Points

• In the fixed sentence there is a usage of 'are' which is a helping verb hence we need to write the main verb after it which is given in sentence P.

• In sentence Q, 'resources' is the object complement for the object 'groundwater' hence according to grammar this part will be the second one.

• So according to this pairing the correct answer is 'PQR'

Q18. Answer: (c) Definite

The correct answer is 'Definite'

Key Points

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

• Moot→ Subject to debate or dispute.

• Doubtful→ Uncertain

• Definite→ Clearly stated or decided.

• Controversial→causing or likely to cause controversy

• So according to the meanings of the given words, the correct answer is 'Definite'

Q19. Answer: (d) Agitated

The correct answer is 'Agitated'

Key Points

• Let's see the meaning of the words-

• Halcyon→ Denoting a past time regarded as idyllically happy and peaceful.

• Calm→ Not showing or feeling nervousness, anger.

• Gentle→ Mild and kind in temperament or character.

• Agitated→ Campaign to arouse public concern about an issue.

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

Q20. Answer: (b) Clear

The correct answer is 'Clear'

Key Points

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

• Lucid→ means 'clear and easy to understand'

• Dim→ means 'not shining clearly or brightly'

• Murky→ dark and gloomy, especially due to thick mist.

• Dumb→ means 'unable to speak'

• So according to the meaning, the correct synonym is 'clear'

Q21. Answer: (b) Overstatement

The correct answer is 'Overstatement'.

Key Points

• The best option that expresses the meaning of the given word "Hyperbole" is option 2, "Overstatement."

• The word "Hyperbole" refers to an exaggerated statement or claim that is not meant to be taken literally, usually used for emphasis or effect.

• For example, "He is so hungry that he could eat a horse" is a hyperbole because it exaggerates the degree of hunger to make a point.

• Overstatement refers to the act of exaggerating something beyond its actual significance or importance. It is a type of hyperbole that is used to emphasize a point or to make something appear more impressive or dramatic.

• Example of overstatement: "I've been waiting for ages." - In this sentence, the speaker is using overstatement to exaggerate the amount of time they've been waiting. They may not have actually been waiting for a very long time, but they want to emphasize their impatience.

• Option 1, "Spoliation," refers to the act of plundering or looting, and is not related to the meaning of "Hyperbole."

• For example, "The invaders engaged in spoliation of the city's treasures" means that the invaders looted the city's treasures.

• Option 3, "Simplification," refers to the process of making something simpler or easier to understand, and is not related to the meaning of "Hyperbole."

• For example, "She simplified the instructions for the children to follow" means that she made the instructions easier to understand for the children.

• Option 4, "Injury," refers to physical harm or damage caused to a person or object, and is not related to the meaning of "Hyperbole."

• For example, "He suffered a severe injury to his leg in the accident" means that he suffered physical harm to his leg.

• Therefore, the correct answer is option 2, "Overstatement," which accurately expresses the meaning of "Hyperbole."

Q22. Answer: (b) determines

The correct answer is 'determines'

Key Points

• In the given blank, we need a verb 'determines'

• According to grammar, when the subject of the sentence is singular we need a singular verb for it.

• The subject in the given sentence is 'Career' which is singular in number so the correct verb for this is 'determines'

• The meaning of the word 'determine' is 'cause to occur in a particular way'

So the correct sentence is- Career determines the kind of lifestyle one will lead and his/her position in the society.

Q23. Answer: (a) bare

The correct answer is 'bare'

Key Points

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

• Bare→ means 'uncover and expose it to view'

• Bear→ means 'carry or convey'

• Beer→ means 'an alcoholic drink made from yeast-fermented malt flavored with hops'

• Bee→ means 'an insect of a large group'

• Hence, according to grammar, we need a verb in the given blank and contextually the correct verb is 'bare'

Q24. Answer: (b) 2

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 'developmental' is incorrect Instead, use 'development'

• According to grammar, whenever two nouns/verbs/adjectives are connected with the conjunction 'and' then they should be in the same form.

• Hence, 'democracy' is the noun and development is a noun too.

• 'Developmental' is an adjective that is incorrect.

So the correct sentence is- We wish to make globalization a means to expand human well being and freedom, and to bring democracy and development to local communities where people live.

Q25. Answer: (a) 1

The correct answer is '1' i.e. error lies in the first part of the sentence.

Key Points

In the first part of the sentence, the usage of 'were' is incorrect Instead, use 'was'

• According to grammar, whenever the subject of the sentence is singular then, the verb of the subject is always singular.

• In the given sentence, the subject of the sentence is 'person' that is singular hence use the singular verb for it.

So the correct sentence is- The person was duly rewarded for her bravery.

Q26. Answer: (b) Alluvial : Soil

The pattern followed here is:-

'Sedimentary' is a word used to describe rocks.

Similarly,

'Alluvial' is a word used to describe soil.

Hence the correct answer is "Alluvial : soil".

Q27. Answer: (a) 71

56 – 5 = 51,

Similarly, 76 – 5 = 71.

Thus, the answer is 71.

Q28. Answer: (a) MIC

The pattern followed here is:-

WYU is related to PRN as:-

Similarly,

TPJ is related to MIC as:-

Hence, the correct answer is "MIC".

Q29. Answer: (c) Animal – Lion

Except option 3, rest of the alternatives follow a particular pattern.

Thus, the answer is option 3.

Q30. Answer: (d) 8 - 15

The Logic followed here is:-

Second number - First number = 5

1) In 5 - 10

10 - 5 = 5

2) In 6 - 11

11 - 6 = 5

3) In 7 - 12

12 - 7 = 5

4) In 8 - 15

15 - 8 = 7 not 5

Hence, the correct answer is "8 - 15".

Q31. Answer: (b) PKD

The pattern followed here is:

Thus, the answer is PKD.

Q32. Answer: (a) 32415

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

3. Facade

2. Facelift

4. Fade

1. Faint

5. Fake

Hence, the correct answer is "32415".

Q33. Answer: (b) 22

The pattern followed here is:-

As can be seen clearly, 22 is a missing number in the series.

Hence, the correct answer is "22".

Q34. Answer: (b) OLK

The pattern followed here is:-

Hence, the correct answer is "OLK".

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Q35. Answer: (c) 12, South-West

Given → Aman started running from his school

By Pythagoras theorem,

distance = $\sqrt{(11^2+ 23)}= \sqrt{144}=12$

As we can be seen clearly from above that Aman is now 12 km South-West from his school.

Hence, the correct answer is "12, "South-West".

Q36. Answer: (d) BIOLOGY

Given word → CATROPHOBIA

1) PHOTO → CATROPHOBIA (So, the word can be formed using all letter)

2) CAT → CATROPHOBIA (So, the word can be formed using all letter)

3) BIT → CATROPHOBIA (So, the word can be formed using all letter)

4) BIOLOGY → CATROPHOBIA (So, the word 'BIOLOGY' cannot be formed as the letter LGY missing in the given word)

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

Hence, the correct answer is "BIOLOGY".

Q37. Answer: (b) chair

The pattern followed here is:-

Given	Means
Blue	Car
Car	Wood
Wood	Rice
Rice	Chair
Chair	Table

As can be seen clearly, we eat rice and here “rice” means “chair”.

Thus, the correct answer is "chair".

Q38. Answer: (b) 29

Given:-

Equation → 14 × 10 ÷ 5 - 20 + 4

Symbol	÷	•	•	×
Code	•	×	÷	•

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

New equation → 14 - 10 + 5 × 20 ÷ 4

Now, after applying BODMAS Rule, we get:-

14 - 10 + 5 × 20 ÷ 4

14 - 10 + 5 × 5

14 - 10 + 25

39 - 10 = 29

Hence, the correct answer is "29".

Q39. Answer: (c) • and ×

Given equation → 5 + 8 ÷ 40 - 20 × 25 = 6

Checking options one by one:-

1) + and ÷

Now, after interchange the sign, we get:-

5 ÷ 8 + 40 - 20 × 25 = 6

Now, after applying BODMAS Rule, we get:-

5 ÷ 8 + 40 - 20 × 25 = 6

0.625 + 40 - 20 × 25 = 6

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0.625 + 40 - 500 = 6
40.625 - 500 = 6
-459.375 ≠ 6
Left hand side is not equal to right hand side.
2) - and +
Now, after interchange the sign, we get:-
5 - 8 ÷ 40 + 20 × 25 = 6
Now, after applying BODMAS Rule, we get:-
5 - 8 ÷ 40 + 20 × 25 = 6
5 - 0.2 + 20 × 25 = 6
5 - 0.2 + 500 = 6
505 - 0.2 = 6
504.8 ≠ 6
Left hand side is not equal to right hand side.
3) + and ×
Now, after interchange the sign, we get:-
5 × 8 ÷ 40 - 20 + 25 = 6
Now, after applying BODMAS Rule, we get:-
5 × 8 ÷ 40 - 20 + 25 = 6
5 × 0.2 - 20 + 25 = 6
1 - 20 + 25 = 6
26 - 20 = 6
6 = 6
Left hand side is equal to right hand side.
4) ÷ and ×
Now, after interchange the sign, we get:-
5 + 8 × 40 - 20 ÷ 25 = 6
Now, after applying BODMAS Rule, we get:-
5 + 8 × 40 - 20 ÷ 25 = 6
5 + 8 × 40 - 0.8 = 6
5 + 320 - 0.8 = 6
325 - 0.8 = 6
324.2 ≠ 6
Left hand side is not equal to right hand side.
Hence, the correct answer is "+ and ×".

Q40. Answer: (d) -5

The Logic followed here is:-
(First number ÷ Second number) × (-1) = Result
In 20 # 4 = -5
(20 ÷ 4) × (-1) = -5
In 50 # 25
(50 ÷ 25) × (-1) = -2
In 80 # 16
(80 ÷ 16) × (-1) = -5
Similarly,
In 10 # 2
(10 ÷ 2) × (-1) = -5
Hence, the correct answer is "-5".

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Q41. Answer: (d) QPQPQRPQ

The following pattern is:

Q	P	R	Q	P	Q	P	Q
Q	P	Q	P	R	Q	P	Q
Q	P	Q	P	Q	P	R	Q
Q	R	P	Q	P	Q	P	Q
Q	P	Q	R	P	Q	P	Q
Q	P	Q	P	Q	R	P	Q

Hence, the correct answer is 'QPQPQRPQ'.

Q42. Answer: (c) 12 km West

As per the given information:

1) A woman is returning from the city to her village. She walks 2 km North

2) turns West and walks 5 km

3) turns South and walks 2 km

4)turns to her right and walks 7 km

Now, she is 12 km west with reference to her starting position.

Hence, the correct answer is "12 km West".

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

The least possible Venn diagram is given below:-

Conclusion I:

No caps are headgears → Doen't follow (In the above diagram we see there is a relation between cap and headgears)

Conclusion II:

No headgears are caps → Doen't follow (In the above diagram we see there is a relation between cap and headgears)

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

Q44. Answer: (c) A

1) Rectangle represents Journalists

2) Circle represents Illustrators

3) Triangle represents Poets

4) Square represent Americans

‘A’ represents Americans who are not Illustrators.

Hence, the correct answer is "A".

Q45. Answer: (c) PWU

The table shows the place value of the alphabet.

The pattern followed here is:

Hence, the correct answer is "PWU".

Q46. Answer: (b) 154

The pattern followed here is:

Hence, the correct answer is "154".

Q47. Answer: (d) (91, 88, 84)

The logic followed here is:

Logic: First number - 3 = Second number

Second number - 3 = Third number

1) 47 - 3 = 44 and 44 - 3 = 41

2) 49 - 3 = 46 and 46 - 3 = 43

3) 59 - 3 = 56 and 56 - 3 = 53

4) 91 - 3 = 88 and 88 - 3 = 85 ≠ 84

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Hence, the correct answer is "(91, 88, 84)".

Q48. Answer: (a) [figure]

The correct mirror image of the given figure when the mirror is held at the right side is:

Hence, the correct answer is "Option 1".

Additional Information In the Mirror image left side and right side changed vice-versa where the top and bottom remain the same.

The reflection of an object into the water is its water image. It appears by inverting an object vertically i.e. upside down.

The water image of the figure looks like the mirror image of the figure in case the mirror is horizontally at the bottom of the figure.

The water image is just a reflection where the top and bottom parts of the images changed while the left and right sides of the image remain the same.

Q49. Answer: (c) [figure]

The form the above diagram we conclude below diagram not made:

Hence, the correct answer is "Option 3".

Q50. Answer: (a) 42,44,14,97

The pattern followed here is:

A letter is represented first by a row then by a column

1) 42, 44, 14, 97 → E, C, H, O

2) 14, 78, 13, 66 → H, Z, M, S

3) 22, 69, 11, 75 → H, S, B, U

4) 14, 87, 32, 67 → H, T, B, X

Hence, the correct answer is ‘42, 44, 14, 97’.

Q51. Answer: (c) 2

Concept used:

Laws of Indices:

1. a^m × a^n= a^({m + n})

2. a^m÷ a^n= a^({m - n})

3. (a^m)^n= a^(mn)

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

5. (a)^(m/n) = $\sqrt[n]{a^m}$

6. (a)^0= 1

Calculation:

=> 5^{12} × 125 ÷ 15625 = 3125 × 25^?

=> 5^{12} × 5^3 ÷ 5^6 = 5^5 × (5^2)^?

=> 5^(12 + 3 - 6) = 5^(5 +)2?

=> 5^9 = 5^(5 +)2?

=> 9 = 5 + 2?

=> ? = 4/2

Therefore ? = 2

Q52. Answer: (b) 70, 80

Calculation:

Let the two parts be ‘x’ and ‘(150 – x)’

Sum of their reciprocals = 3/112

=> 1/x + 1/(150 – x) = 3/112

=> (150 – x + x)/x(150 – x) = 3/112

=> 150/x(150 – x) = 3/112

=> 150 × 112/3 = x(150 – x)

=> 5600 = 150x – x^2

=> x^2 – 150x + 5600 = 0

=> x^2 – 70x – 80x + 5600 = 0

=> x(x – 70) – 80(x – 70) = 0

=> (x – 70)(x – 80) = 0
=> x = 70, 80
Therefore The two parts are 70 and 80

Q53. Answer: (b) (17√3)/2

Calculation:
We can write,
=> 108 = $2^2 \times 3^2 \times 3$
=> √108 = 2 × 3 × √3 = 6√3
Hence,
=> (5√3)/2 + 6√3
= √3(5/2 + 6)
= 17√3/2
Therefore value of (5√3)/2 + √108 is 17√3/2

Q54. Answer: (c) 6

Calculation:
Because $(a – 1/a)^2 = a^2 + 1/a^2 – 2$
=> $(a – 1/a)^2 = 38 – 2 = 36$
=> (a – 1/a) = √36
Therefore (a – 1/a) = 6

Q55. Answer: (a) angle AOP = angle AOQ

Calculation:
When two tangents are drawn to a circle from an external point, then the tangent segments are equal,
This means, in the given figure, AP = AQ
Because OP = OQ = radius of the circle
Hence, the two triangles AOP and AOQ are equal triangles
Therefore angle AOP = angle AOQ

Q56. Answer: (b) 4

Calculation:
For an equilateral triangle with side ‘a’ units, length of inradius = a√3/6 units
Given, the side of the equilateral triangle = 8√3 cm
Length of inradius = 8√3 × √3/6
= 24/6
= 4 cm
Therefore The length of the inradius is 4 cm

Q57. Answer: (c) 504000

Calculation:
If the current population of a town is P and it increases at a rate of R% per annum, then,
Population after n years = $P \times (1 + R/100)^2$
Given, P = 350000, R = 20%,
Therefore Population after 2 years = $350000 \times (1 + 20/100)^2 = 350000 \times 1.44 = 504000$

Q58. Answer: (a) 28000

Calculation:
Let the incomes of P and Q be Rs. ‘4x’ and Rs. ‘7x’ respectively
Let the expenditures of P and Q be Rs. ‘3y’ and Rs. ‘7y’ respectively
Now, Savings = Income – Expenditure
=> Savings of P = 4x –3y = 10000 ----(1)
=> Savings of Q = 7x – 7y = 7000
=> x – y = 1000

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=> y = x – 1000
Substituting in (1),
=> 4x – 3(x – 1000) = 10000
=> 4x – 3x + 3000 = 10000
=> x = 10000 – 3000 = 7000
Therefore Income of P = 4x = 4(7000) = Rs. 28000

Q59. Answer: (b) 2

GIVEN:
Investment of Akash = Rs. 85000
Investment of Payal = Rs. 102000
Profit is divided among them in the ratio of 1: 1
CALCULATION:
Akash's total capital investment = 85000 × 12 = 1020000
Let Payal join Akash after 'x' months
=> Payal's investment time = (12 – x)
=> Payal's total capital investment = 102000 × (12 – x)
Now, the Ratio of profits = Ratio of total capital investments
=> 1: 1 = 1020000: [102000(12 – x)]
=> 102000(12 – x) = 1020000
=> 12 – x = 10
=> x = 12 – 10 = 2
Therefore Payal joined after 2 months
Shortcut Trick Profit ratio = Investment × time
P_A/P_B = I1T1/I2T2
1/1 = (85000 × 12)/1020000 T2
T2 = 10 so Payal joined after 2 month

Q60. Answer: (b) 500

Calculation:
As we know, all the one-digit, two-digit, and 3-digit natural numbers are from 1 – 999
Because Sum of n natural numbers = n(n + 1)/2
Sum of 999 natural numbers = (999 × 1000)/2
= 499500
Therefore Required average = 499500/999 = 500

Q61. Answer: (c) 20

Short Trick:
Interest for 7 years = Rs. 8400
Therefore Interest for 1 year = 8400/7 = Rs. 1200
Rate of interest = Interest/Principle = 1200/6000 × 100 = 20%
Detailed Solution:
Let the rate of interest be R%
As we know, Simple interest = (Principal × Rate × Time)/100
Given, Principal = Rs. 6000
Simple interest for 7 years = (6000 × R × 7)/100
=> 8400 = 420R
=> R = 8400/420 = 20%
Therefore Rate of interest = 20% p.a.

Q62. Answer: (b) 12864

Cost price = Rs. 13400
Loss = 4% of 13400 = 4/100 × 13400 = Rs. 536

Because Selling price = Cost price – Loss
Therefore Selling price = 13400 – 536 = Rs. 12864

Q63. Answer: (c) 31 : 25

Calculation:
Selling price = (20/31) × Marked price(MP)
Now, Cost price – Loss = Selling price
=> CP – 20% of CP = (20/31) × MP
=> 80% of CP = (20/31) × MP
=> 4/5 × CP = 20/31 × MP
=> MP/CP = 4/5 × 31/20 = 31/25
Therefore Ratio of marked price and cost price = 31 : 25

Q64. Answer: (a) 3.5

Calculation:
We can write,
=> √128 = √(2^6 × 2) = $2^3\sqrt{2}$ = $8\sqrt{2}$
=> √72 = √(2^2 × 3^2 × 2) = 2 × $3\sqrt{2}$ = $6\sqrt{2}$
=> √32 = √(2^4 × 2) = 2^2 × √2 = $4\sqrt{2}$
Hence,
=> (√128 + √72)/√32
= ($8\sqrt{2}$ + $6\sqrt{2}$)/$4\sqrt{2}$
= $14\sqrt{2}/4\sqrt{2}$
= 7/2
= 3.5

Q65. Answer: (d) 304/29

Calculation:
Let the tank be filled in ‘a’ hrs.
Part filled by X in 1 hr. = 1/16
=> Part filled by X in a hrs. = a/16
Part filled by Y in 1 hr. = 1/20
=> Part filled by Y in a hrs. = a/20
Part emptied by Z in 1 hr. = 1/25
=> Part emptied by Z in (a – 6) hrs. = (a – 6)/25
Now, Total work done = 1
=> a/16 + a/20 – (a – 6)/25 = 1
=> a(1/16 + 1/20 – 1/25) = 1 – 6/25
=> a(29/400) = 19/25
=> a = 400/29 × 19/25
=> a = 304/29
Therefore The tank will be filled in 304/29 hrs.

Q66. Answer: (b) 21

Calculation:
Because Speed = Distance/Time
=> Speed of man = 700/120 = 35/6 m/sec.
Therefore Speed of man = 35/6 × 18/5 = 21 km/hr.

Q67. Answer: (a) 2013

No. of deaths in 2012 = 8000
No. of deaths in 2013 = 500
No. of deaths in 2014 = 4500
No. of deaths in 2015 = 7000

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Therefore No. of deaths were lesser in 2013 than the previous year

Q68. Answer: (d) 2000

No. of deaths in 2017 = 2500

No. of deaths in 2013 = 500

Therefore Required difference = 2500 – 500 = 2000

Q69. Answer: (d) 0.375

No. of deaths in 2012 = 8000

No. of deaths in 2016 = 5000

Difference = 8000 – 5000 = 3000

Therefore The no. of deaths in 2016 were lesser than that in 2012 by 3000/8000 = 0.375

Q70. Answer: (b) 100

No. of deaths in 2013 = 500

Average insurance paid for each death = Rs. 20 lakhs

Therefore Total insurance paid in 2013 = 500 × 20 lakhs = Rs. 10000 lakhs = Rs. 100 crores

Q71. Answer: (d) 13

Given:

Area of rectangle = 60 cm^2

Breadth of rectangle = 5 cm

Concept used:

Area of rectangle = Length × Breadth

Calculations:

Area of rectangle = Length × Breadth

=> 60 = Length × 5

=> Length = 60/5 = 12 cm

=> Diagonal of rectangle = $\sqrt{(length^2 + breadth^2)}$

=> Diagonal of rectangle = $\sqrt{(144 + 25)} = \sqrt{169}$ = 13 cm

Therefore Diagonal of rectangle is 13 cm.

Q72. Answer: (b) 88

Calculation:

Area of the circle with radius ‘r’ = πr^2

=> $22/7 \times r^2 = 616$

=> $r^2 = 196$

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

Therefore Circumference of circle = $2\pi r = 2 \times 22/7 \times 14 = 88$ cm

Q73. Answer: (d) 2772

Calculation:

The total surface area of a hemisphere of radius ‘r’ = 3πr2

The curved surface area of a hemisphere of radius ‘r’ = $2\pi r^2$

Radius of hemisphere = 42/2 = 21 cm

Therefore Curved surface area of given hemisphere = $2 \times 22/7 \times 21 \times 21 = 2772$ cm^2

Q74. Answer: (c) (3√3 + 1)/3

Calculation:

tan 60° + 1/3

= √3 + 1/3 [Because tan 60° = √3]

= (3√3 + 1)/3

Q75. Answer: (c) 4/5

Calculation:

In the given ΔPQR,

=> cos P = adjacent/hypotenuse = PQ/PR = 3/5

=> sin P = opposite/hypotenuse = QR/PR

But, sin P = √(1 – cos² P) = √(1 – 9/25) = √(16/25) = 4/5

=> QR/PR = 4/5

Now, cos R = adjacent/hypotenuse = QR/PR

Therefore cos R = 4/5

Q76. Answer: (d) All options are correct

The correct answer is All options are correct

• RBI normally declares the monetary policy 6 times a year. These policies are known as Bi-Monthly policy.

• The objective behind such monetary policy is to:

1. Guarantees price stability of commodities in the country,
2. Guarantees balanced credit expansion,
3. Guarantees growth of long term investments in the economy,
4. Guarantees proper balance of exports and imports,
5. Encourage food procurement operations,
6. Guarantees proper distribution of credit to all sectors of the economy.

• In order to achieve these objectives, RBI resorts to various methods/techniques, like:-

1. Open Market Operations
2. Interest Rates management on loans and advances by banks
3. Bank Rate Mechanism
4. Maintaining proper SLR (Statutory Liquidity Ratio) and CRR (Cash Reserve Ratio)
5. Credit Rationing via Selective Credit Control (now withdrawn)
6. Moral Suasion
7. Exchange Control Mechanism

Q77. Answer: (a) 1990-1992

Five-Year Plans	Instrument of centralized and integrated national economic planning and development	launched in 1951
1st Five-Year Plan	Based on Harrod-Domar Model	1951-1956
Rolling plan	In 1978 Janata Party Government rejected the 5th plan and started rolling plan	1978-1980
Annual plans	Crisis of foreign exchange in 1991 and Economic instability	1990-1992

Q78. Answer: (c) Zaman Shah

Zaman Shah frequently attacked Indian territory and was seen as the only force that could prevent the influence of the East India Trading Company to spread all over India. He gave the title of Raja to Ranjit Singh.

Personality	Known for	Time Period
Ranjit Singh	Leader of the Sikh Empire	Born on 1780
Zaman Shah	Ruler of the Durrani Empire	From 1793 to 1800
Lord Lake	Commanders-in-Chief of India	Appointed on 1805 October

Q79. Answer: (a) William Bentinck

By Charter Act of 1833 Governor of the state of Bengal designated as Governor-General of India.

William Bentinck	last Governor General of Bengal

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Time period	1828 to 1835
Reforms	1. He along with Thomas Babington Macaulay introduced English as the language of instruction in India. 2. Abolition of sati and other cruel rites.

Q80. Answer: (c) Diorite

The correct answer is Diorite.

Diorite is an example of an igneous rock.

Type	Formation	Examples
Metamorphic Rock	These rocks form under the action of pressure, volume, and temperature (PVT) changes	Gneissoid, Syenite, Slate, Schist, Marble, Quartzite
Igneous Rock	form out of magma and lava from the interior of the earth, they are known as primary rocks	Granite, Gabbro, Pegmatite, Basalt, Volcanic Breccia, and Tuff
Sedimentary Rocks	Fragments of various rocks are transported by different exogenous agencies and deposited. These deposits through compaction turn into Sedimentary rocks.	Sandstone, Conglomerate, Limestone, Shale, Loess, Chert, Limestone, Halite, Potash

Q81. Answer: (a) Godwin Austen

Godwin Austen also known as K2 is the second highest peak in the world at a height of 8611 meters or 28251 feet. It is the highest mountain in India and is near China border.

Mountain Peak	Height
Kanchenjunga	8,586 m
Nanda Devi	7,816 m
Nanga Parvat	8,126 m

Q82. Answer: (b) Karnataka

• Combines dance, music, dialogue, costume, make-up, and stage techniques with a unique style and form. This theatre style is mainly found in all parts of Karnataka.

• Yakshagana is traditionally presented from dusk to dawn.

Q83. Answer: (d) Egypt

The incident took place in a mosque in Al-Rawda in the Sinai district of Egypt, about 230 people were killed when a group of 40 gunmen assaulted the mosque during the Friday prayer.

About Egypt	
Capital	Cairo
Currency	Egyptian pound
President	Abdel Fattah el-Sisi

Q84. Answer: (c) T.M. Krishna

• T.M Krishna is a Carnatic vocalist that was awarded with the honour because of his efforts in preserving the national integration of the country, aside from being a vocalist he is also an activist who is trying to break the social barriers of India.

• He was also awarded the Ramon Magsaysay award in 2016.

Q85. Answer: (a) Southern Asia

Pakistan is located in the India subcontinent in southern Asia, it is bordered by India, Afghanistan and Iran. It is the 5th most populated country in the world.

About Pakistan	

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Capital	Islamabad
Currency	Pakistani rupee
President	Arif Alvi
Prime minister	Shehbaz Sharif

Q86. Answer: (b) Washing soda

A common name for Sodium Carbonate is washing soda.

Below the chart here are some important points about sodium carbonate:

Sodium Carbonate	Alkali Chemical
Chemical Formula	Na2co3
Common Name	Washing Soda
Other details	The water-soluble Sodium salt of carbonic acid is a powdery material of white color

Q87. Answer: (a) I – 3, II – 4, III – 1, IV – 2

The correct Table is Given below with pH values:

Common name	pH	Chemical name
Vinegar	2.4	Acetic Acid
Orange	2.3	Citric Acid
Tamarind	3.4	Tartaric Acid
Sour milk	3.5	Lactic Acid

Q88. Answer: (c) Only III

• The President of India is not a member of any of the two houses but has the power to summon both the houses and even dissolve them.

• Prime Minister and Finance Minister can be Member of Parliament either from Council of States (Rajya Sabha) or House of People (Lok Sabha).

• Three Prime Ministers, Indira Gandhi (1966), Deve Gowda (1996) and Manmohan Singh (2004) were members of Rajya Sabha.

Q89. Answer: (c) Speaker of Lok Sabha of India

The Chairman of each parliamentary committee formed in Lok Sabha is appointed by the speaker of the Lok Sabha.

Important committee	Working	Members (Lok Sabha + Rajya Sabha)
Public Accounts Committee	Examines various expenditure reports and accounts under the purview of the Parliament	22 (15+7)
Estimates Committee	Examines the estimates included in the budget and suggest ‘economies’ in public expenditure	30 (30+0)
Public Undertakings Committee	Analyses the accounts, and workings of the state owned PSU firms.	22 (15+7)

Q90. Answer: (d) Mouth to anus

The correct answer is Mouth to anus.

Key Points

• The alimentary canal is the connected tube consisting of organs like the mouth, pharynx, oesophagus, stomach, small intestine, large intestine, and anus.

• It is the path that food takes from ingestion to digestion and finally excretion out of the body.

• The length of the alimentary canal is about 25 feet.

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• It is also known as the gastrointestinal tract.

Q91. Answer: (b) Only women

The correct answer is Only women.

EXPLANATION:

• Women have a perfect pair of sex chromosomes XX while men have a mismatched pair in which one is a normal-sized X and the other a short one Y which is XY.

Key Points

• Chromosomes are structures found in the center (nucleus) of cells that carry long pieces of DNA. DNA is the material that holds genes. It is the building block of the human body.

• Chromosomes also contain proteins that help DNA exist in the proper form.

• Chromosomes come in pairs.

• Normally, each cell in the human body has 23 pairs of chromosomes (46 total chromosomes).

• Half comes from the mother, the other half comes from the father.

• Two of the chromosomes (the X and the Y chromosome) determine your sex as male or female when you are born. They are called sex chromosomes:

• Females have 2 X chromosomes.

• Males have 1 X and 1 Y chromosome.

• The mother gives an X chromosome to the child. The father may contribute an X or a Y. The chromosome from the father determines if the baby is born male or female.

• A human being has 23 pairs of chromosomes in which one pair of X and Y chromosomes determine the sex of the human being.

• If there is one X chromosome from the mother and one X chromosome from the father, then two X chromosomes (XX) make a girl whereas the X chromosome from the mother and Y chromosome from the father then these chromosomes (XY) make a boy.

• The remaining chromosomes are called autosomal chromosomes.

• They are known as chromosome pairs 1 through 22.

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Q92. Answer: (b) 10 years

Pradhan MantriVayaVandanaYojana (PMVVY)	**Pension scheme**
Available from	4th May, 2017 To 31st March, 2020
Target group	Senior citizens of age 60 and above
Benefits	Scheme provides an assured return of 8% p.a. Payable monthly (equivalent to 8.30% p.a. Effective) for 10 years.

Q93. Answer: (a) Divya Nayan

Divya Nayan is a personal reading machine for visually impaired to access printed or electronic textual information.

Developed by	**Central Scientific Instruments Organisation (CSIO), under the Council of Scientific and Industrial Research (CSIR)**
President CSIR	Prime Minister
Director General, CSIR & Secretary DSIR	Nallathamby Kalaiselvi

Q94. Answer: (a) Asian Development Bank

IndusInd Bank secured the loan from the Asian Development Bank with a return period of 7 years. About 95% of the loan will be towards credit of women borrowers.

IndusInd Bank Headquarters	**Mumbai**
Asian Development BankHeadquarters	Manila, Philippines
Asian Development Bank President	Takehiko Nakao

Q95. Answer: (c) Comptroller and Auditor General

• The Lok Sabha passed the Indian Institutes of Management (IIM) Bill 2017 to allow them greater autonomy and empower them to grant degrees instead of diplomas as is the practice now.

• The IIMs' accounts will be audited by the Comptroller and Auditor General of India.

Comptroller and Auditor General of India	Rajiv Mehrishi
Appointer	President of India
Term length	6 years or up to 65 years of age
Articles related to CAG	Article-148,149,150,151

Q96. Answer: (a) 108

CONCEPT:

• Momentum (p): The momentum of a body is the product of its mass and velocity.

• It is a vector quantity.

• The SI unit of momentum is kg.m/s.

Momentum (p) = Mass (m) × Velocity (v)

CALCULATION:

Given that:

mass =18 and v = 6

Momentum (p) = m × v = 18 × 6 = 108 kg.m/s

Q97. Answer: (c) Force

The Correct answer is Force.

Explanation:

• A force is a push or pull upon an object resulting from the object's interaction with another object. Whenever there is an interaction between two objects, there is a force upon each of the objects.

• Newton's Second law of motion: The rate of change of momentum of any object is directly proportional to the applied force on the body.

Force (F) = (Δ P)/(Δ t)

Where Δ P = Change in momentum and Δ t = change in time taken

Additional Information

1. Impulse (J): The change in momentum is called impulse.

2. Torque/moment/moment of force/rotational force/turning effect is the rotational equivalent of linear force.

3. Newton's Second Law of Motion states that the rate of change of linear momentum of a body is proportional to the force acting on it. So option 3 is correct.

4. The kinetic energy of an object is the energy that it possesses due to its motion. It is defined as the work needed to accelerate a body of a given mass from rest to its stated velocity.

Q98. Answer: (a) Thunderstorm

• A thunderstorm is a storm characterized by the presence of lightning and its acoustic effect on the Earth's atmosphere known as thunder.

• Thunderstorms occur in a type of cloud known as a cumulonimbus. They are usually accompanied by strong winds, heavy rain and sometimes snow, sleet, hail or in contrast, no precipitation at all.

Q99. Answer: (a) Only A

Only statement A is correct. RomeluLukakujoined Manchester United on 10 July and the Table Tennis 2017 ITTF Men's World Cup was hosted in Liege which is a city in Belgium.

Q100. Answer: (a) MS-Office

The correct answer is MS-Office

Important Points

• Excel is a spreadsheet application developed and published by Microsoft. It is part of the Microsoft Office suite of productivity software.

• Unlike a word processor, such as Microsoft Word, Excel organizes data in columns and rows. Rows and columns intersect at a space called a cell. Each cell can contain a single of data, such as text, a numerical value, or a formula.

• Excel was originally code-named Odyssey during development. It was first released on September 30, 1985.

Additional Information

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• Excel is a tool for organizing and performing calculations on data. It can analyze data, calculate statistics, generate pivot tables, and represent data as a chart or graph.

• For example, you could create an Excel spreadsheet that calculates a monthly budget, tracks associated expenses, and interactively sorts the data by criteria.

• Below is an example of Microsoft Excel with each of its major sections highlighted. See the formula bar, cell, column, row, or sheet tab links for further information about each of these sections.

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