SSC CHSL Previous Paper 22 (Held On: 13 March 2018 Shift 3) (Previous Year Paper)

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

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Practise under exam conditions, then review your answers after you submit.

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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) benefecial
(b) baneficial
(c) banefecial
(d) beneficial

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.

She nodded her

A-head, and unapologetically shrugged

B-her shoulders while pointing to the

C-fine receipt she had just handed to me

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

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".

We, all of us, (are compromise) the moment we’re living in.

(a) compromise
(b) compromising
(c) is compromised
(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".

In fact, (be) among so many happy people can automatically cheer you up.

(a) to be
(b) been
(c) being
(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.

The action of driving or pushing forwards

(a) Propulsion
(b) Astern
(c) Abaft

(d) Propitiate

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

Public disgrace arising from shameful conduct

(a) Opprobrium
(b) Kudos
(c) Plaudit
(d) Ovation

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

A bad hair day

(a) A day which has a bad start will eventually become better.
(b) A day on which everything seems to go wrong.
(c) Don't worry over hair loss or else you will lose more.
(d) A day when you forget to comb your hair.

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

Chicken out

(a) Quickly move from one position to another in a game of chess or war.
(b) Be a lover of non vegetarian delicacies.
(c) Be easily confused over small issues.
(d) To decide not to do something because you are too frightened.

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.

All this suggests the intimate relations which exist between history, politics, and sociology. The _____ thing, however, is not the identities but the distinctions For, however much the _____ disciplines may, in practice, overlap, it is necessary ____ the sake of clear thinking to have their limits defined. As far ___ sociology and history are concerned the differences may be summed up in a word. _____ history and sociology are concerned with the life of man as man.

Q9. up in a word. _____ history and

(a) Two
(b) Both
(c) Twice
(d) Pair

Q10. As far _____ sociology and history are concerned

(a) as
(b) like
(c) same
(d) such

Q11. it is necessary _____ the sake of clear thinking

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

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Q12. however much the _____ disciplines may,

(a) vary
(b) variety
(c) various
(d) variant

Q13. sociology. The _____ thing, however,

(a) important
(b) importance
(c) importances
(d) importantly

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) Minoscole
(b) Minuscole
(c) Minuscule
(d) Minucole

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.

The king said, “Alas! Our enemies are too strong.”

(a) The king said that their enemies were too strong.
(b) The king exclaimed sadly that their enemies were too strong.
(c) The king was sad because the enemies were too strong.
(d) The enemies were too strong for the king.

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

He refused them donation.

(a) They was refused donation.
(b) They refused donation by him.
(c) They were refused donation by him.
(d) They were refused donation.

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

In developing

P: and poor schooling opportunities,

Q: countries, due to high poverty

R: child labour is still prevalent

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

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

Dank

(a) Dry
(b) Close
(c) Sticky
(d) Moist

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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.

Voluble

(a) Reserved
(b) Talkative
(c) Fluent
(d) Gabby

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

Nascent

(a) Nasal
(b) Mature
(c) Budding
(d) Permanent

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

Virtuoso

(a) Amateur
(b) Rookie
(c) Ace
(d) Unskilled

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

If you want to secure health you must learn to work without _____.

(a) ciliation
(b) laziness
(c) abolition
(d) bisection

Q23. In the following question, the sentence given with blank is to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

I have never solved _____ equation before.

(a) so complicated
(b) as complicated
(c) such a complicated
(d) no complicated

Q24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The Large Hadron Collider is the world's largest and most (1)/ powerful particle collider, the most complex experimental (2)/ facility, and the largest single machine in a world (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'.

If I had cared, (1)/ I will buy (2)/ it again. (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.

Gold : Jewellery : : ? : ?

(a) Pulp : Prism
(b) Furniture : Jute
(c) Brick : Wall
(d) Seed : Book

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

94 : 36 : : 47 : ?

(a) 32
(b) 28
(c) 11
(d) 21

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

MLF : OOJ : : ? : ?

(a) RIG : TLK
(b) AGS : BIV
(c) KTM : LUN
(d) FRY : DQX

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

(a) Cricket
(b) Ludo
(c) Chess
(d) Carrom

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) 69 - 71
(b) 61 - 63
(c) 77 - 79
(d) 63 - 67

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

(a) HM
(b) KR
(c) SX
(d) GL

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

1. Incomplete
2. Incorrect
3. Include
4. Increment
5. Income

(a) 51243
(b) 12453

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(c) 34125
(d) 35124

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

11, 22, 44, 88, 176, ?

(a) 350
(b) 362
(c) 352
(d) 282

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

C, G, L, R, ?

(a) W
(b) X
(c) Y
(d) Z

Q35. Weight of Arun is 4/7 of the weight of Bablu. Weight of Bablu is 1/2 of the weight of Ram. Weight of Ram is 4 times of the weight of Deep. Weight of Deep is 1/9 of the weight of Ankit. Whose weight is more than the weight of Deep but less than the weight of Bablu?

(a) Ankit
(b) Arun
(c) Ram
(d) Deep

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

Heating

(a) Fate
(b) Ate
(c) Gate
(d) Gain

Q37. In a certain code language, “LINK” is written as “1291411” and “FUEL” is written as “621512”. How is “TORN” written in that code language?

(a) 15181319
(b) 20161314
(c) 20151814
(d) 2018149

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

5 ÷ 20 - 4 + 10 × 8 = ?

(a) 12
(b) 23
(c) 6
(d) 34

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

12 ÷ 4 - 15 × 10 + 2 = 8

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

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Q40. If 4Δ2 = 60, 7Δ9 = 160 and 8Δ3 = 110, then find the value of 3Δ2 = ?

(a) 50
(b) 90
(c) 70
(d) 60

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

XYYYYYY, XXYYYYY, XXXYYYY, XXXXYYY, XXXXXYY, _____.

(a) XXXXXXX
(b) XYYYYYY
(c) XXYYYYY
(d) XXXXXXY

Q42. Two labourers L and M start at the same point. L walks 10 m South, then turns left and walks 25 m. In the meanwhile, M walks 20 m West, then turns to his right and walks 15 m, then turns East and walks 45 m. Where is M with respect to L?

(a) 5 m North
(b) 25 m South
(c) 5 m South
(d) 25 m North

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: Some purses are pockets.

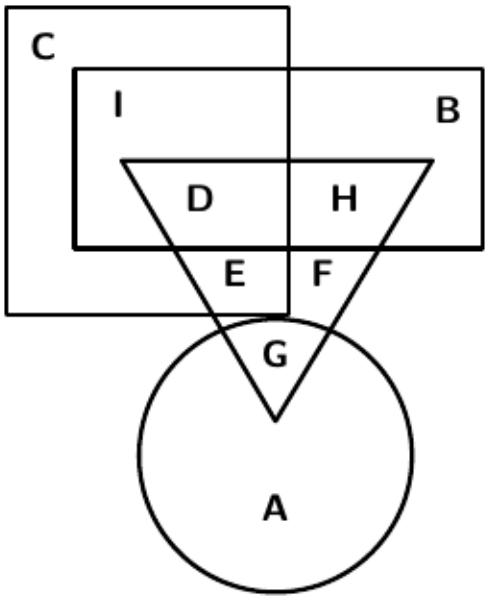
Statement II: All purses are wallets.

Conclusion I: All pockets are wallets.

Conclusion II: No wallets are pockets.

(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 Opticians, circle represents Curators, triangle represent Campers and square represents Europeans. Which set of letters Opticians who are either Europeans or Campers?



(a) IDH
(b) DEF

(c) CID
(d) IBD

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

ZIP, XGN, VEL, TCJ, ?

(a) RZG
(b) SAH
(c) SZG
(d) RAH

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

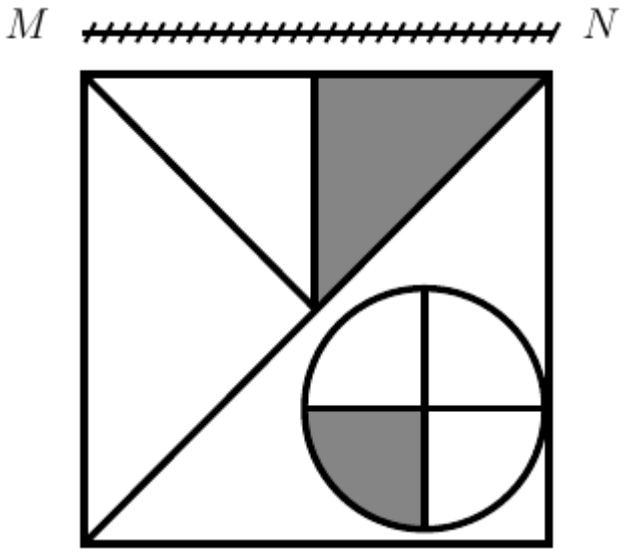
41, 54, 67, ?, 93

(a) 80
(b) 82
(c) 74
(d) 90

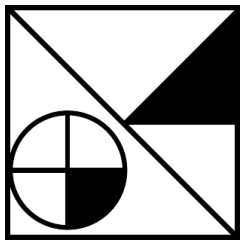
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (17, 21, 25)
(b) (12, 16, 20)
(c) (19, 23, 27)
(d) (22, 26, 32)

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

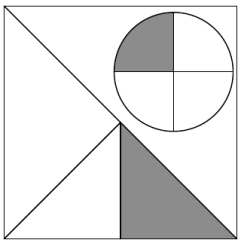


(a)

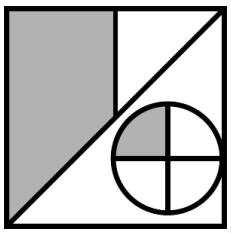


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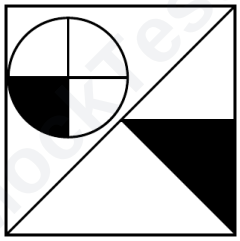
(b)



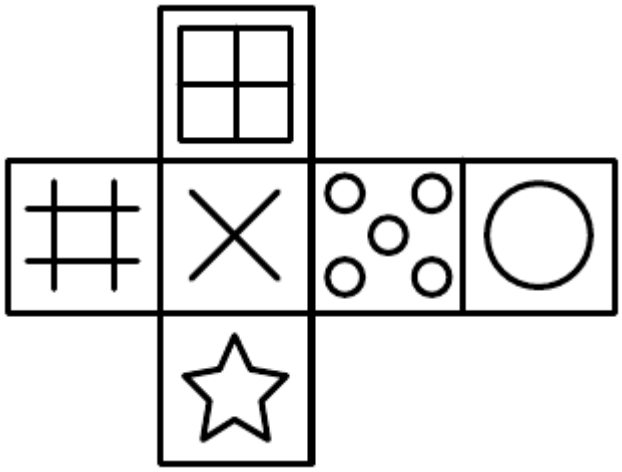
(c)



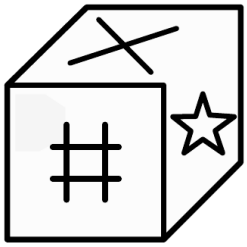
(d)



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

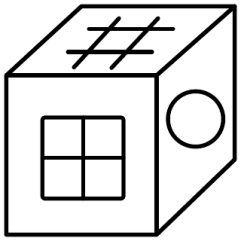


(a)

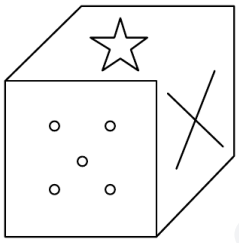


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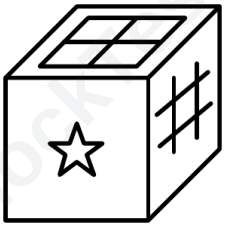
(b)



(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 Matix-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, ‘G’ can be represented by 10, 24 etc., and ‘T’ can be represented by 76, 86 etc. Similarly, you have to identify the set for the word “ENVY”.

Matrix-I		**Matrix-II**									
	0	1	2	3	4		5	6	7	8	9
0	A	K	J	F	J	5	V	S	N	V	N
1	G	J	M	L	J	6	P	R	Q	O	Q
2	F	K	A	I	G	7	R	T	Z	U	W
3	H	J	E	B	H	8	U	T	U	T	R
4	K	H	M	H	E	9	Z	Q	Y	N	N

(a) 20, 79, 42, 96
(b) 32, 57, 55, 97
(c) 40, 89, 30, 78
(d) 11, 65, 10, 69

QUANTITATIVE APTITUDE

Q51. Find the smallest 8 digit number which is exactly divisible by 121.

(a) 10000045
(b) 10000076
(c) 10000024
(d) 10000055

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Q52. A number is divided by 52, we get 27 as remainder. On dividing the same number by 13, what will be the remainder?

(a) 2
(b) 7
(c) 1
(d) None of these

Q53. Find the value of (6√2)/(5√3)(√2 + √18)~.

(a) (16√3)/5
(b) (26√3)/5
(c) (36√3)/5
(d) (46√3)/5

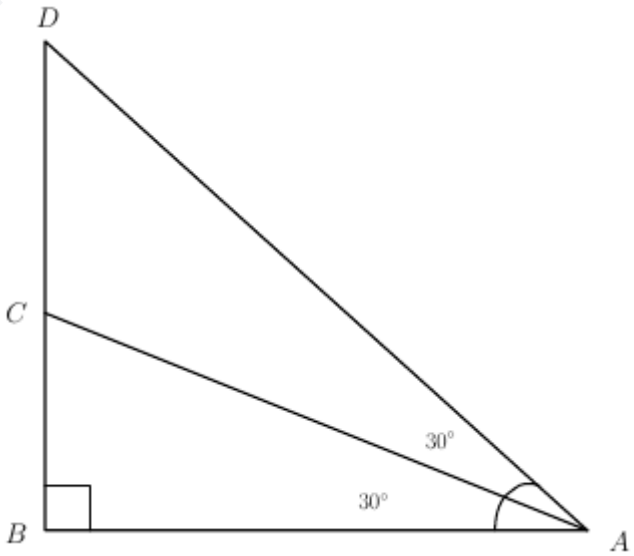
Q54. Find the value of 'y' if (4√(y^8)) = 225

(a) 10
(b) 12
(c) 15
(d) 18

Q55. If the in-radius of the equilateral triangle is 8 cm then what is the value of circum-radius (in cm) of the triangle?

(a) 8
(b) 16
(c) 18
(d) 20

Q56. Choose the CORRECT option for the following figure.



(a) AB = BD
(b) AC = CD
(c) BC = AB
(d) AD = AC

Q57. What is the value of 53% of 7400?

(a) 4315
(b) 3478
(c) 3922
(d) 4124

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Q58. Rs. 9000 is divided among P, Q and R in the ratio of 5 : 6 : 7. What is the share (in Rs.) of R?

(a) 2500
(b) 3500
(c) 3000
(d) 4000

Q59. A mixture of 50 kg of cement and gravel contains 10% of gravel. How many kg of gravel must be added to make the gravel content 28% in the new mixture?

(a) 14.5
(b) 10.5
(c) 12.5
(d) 17.5

Q60. The average of 7 numbers is 30. If the average of first three numbers is 25 and that of last three numbers is 35, then what is the fourth number?

(a) 30
(b) 35
(c) 37.5
(d) 40

Q61. If the interest is compounded half-yearly, then what will be the compound interest (in Rs.) on a sum of Rs. 10000 for 1 year at the rate of 10% per annum?

(a) 1250
(b) 525
(c) 1000
(d) 1025

Q62. Raj purchased two laptops, first for Rs. 42500 and the second for Rs 36200. He sold first laptop at a profit of 12% and the second laptop at a loss of 12%.What is the overall profit or loss?

(a) Rs. 756 profit
(b) Rs. 756 loss
(c) Rs. 1512 profit
(d) Rs. 1512 loss

Q63. A discount of 45% on an article is equal to the discount of 65% on other article. What is the respective ratio of the marked price of both the articles?

(a) 5 : 9
(b) 3 : 4
(c) 7 : 12
(d) 13 : 9

Q64. What is the value of cbrt729 × √16 + √676 + √169 ?

(a) 75
(b) 64
(c) 35
(d) 60

Q65. P and Q together can make a door in 12 days. They started the work together but after 8 days P left the work. The remaining work is completed by Q alone in 7 more days. In how many days can P alone complete the entire work?

(a) 21
(b) 24
(c) 28
(d) 32

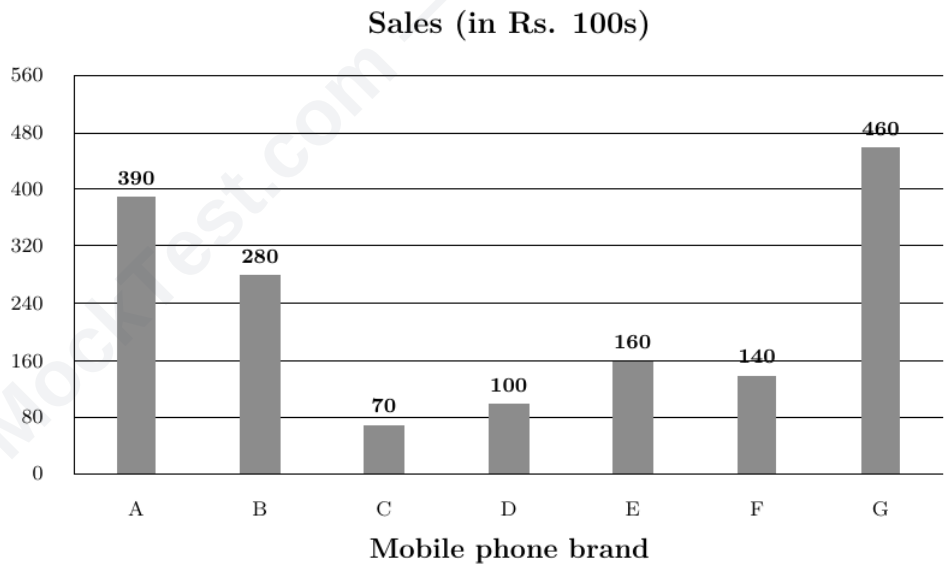
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Q66. From point P, at 6:30 pm, a train starts moving towards Q with the speed of 40 km/hr. Another train starts moving from point Q at 7:30 p.m. towards point P at the speed of 60 km/hr. Both of them meet at 11:30 p.m. at point R. What is the ratio of PR and QR?

(a) 3 : 4
(b) 5 : 6
(c) 4 : 5
(d) 5 : 4

Directions

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



Q67. If the sales figures are exclusive of tax then at the rate of 10% tax, how much is the tax to be paid (in Rs) on the sales of all the 7 brands of mobile phones?

(a) 160000
(b) 1600000
(c) 150000
(d) 1500000

Q68. Sales of brand E was greater than that of brand D by _____.

(a) 0.375
(b) 0.6
(c) 0.575
(d) 0.3

Q69. What is the ratio of sales of brand 'B' to that of brand 'C'?

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

Q70. Sales of which mobile phone brand were the second highest?

(a) G
(b) A
(c) B
(d) E

Q71. If the length of one side and the diagonal of a rectangle are 5 cm and 13 cm respectively, then find its perimeter (in cm).

(a) 68
(b) 34
(c) 25
(d) 50

Q72. If the perimeter of a semicircle is 108 cm, then find the area (in cm^2) of the circle.

(a) 1386
(b) 512
(c) 695
(d) 1024

Q73. The surface area of a sphere is 2464 cm^2. Find its diameter (in cm).

(a) 14
(b) 56
(c) 28
(d) 42

Q74. What is the value of (cot 60° + 1/√3) ?

(a) 4/√3
(b) (2√2 + √3)/2
(c) 2/√3
(d) (2√2 + 1)/√2

Q75. ΔPQR is right angled at Q. If sec P = 13/5, then what is the value of sin R?

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

GENERAL AWARENESS

Q76. Debenture holders of a company are its _____.

(a) Shareholders
(b) Creditors
(c) Debtors
(d) Directors

Q77. Currency notes and coins of one rupee and lower denominations are issued by the _____.

(a) State Bank of India
(b) Government of India
(c) Reserve Bank of India
(d) Ministry of Finance

Q78. Which of the following places is not a Middle Stone Age?

(a) Langhnaz
(b) Ganeshwar
(c) Bagor
(d) Adamgarh

Q79. The title of Persian translation of the Mahabharata is: _____.

(a) Anwar-e-Suhaili
(b) Razmanama
(c) HashtBahisht

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(d) Ayar Danish

Q80. Which planet moves in the opposite direction than other planets in Solar System?

(a) Neptune
(b) Pluto
(c) Uranus
(d) Saturn

Q81. As per the structure and origin, the Highlands of Meghalaya is part of which of the following?

(a) Himalaya range
(b) Purvanchal Hill
(c) ArakanYoma Mountain
(d) Peninsular Plateau

Q82. What was Lord Mahavira's name prior to acquiring the knowledge?

(a) Vardhman
(b) Anshuman
(c) Sudhakar
(d) Somdutt

Q83. Under the Indus Water Treaty, India has not been given the exclusive right over which of the following rivers?

(a) Ravi
(b) Satluj
(c) Jhelum
(d) Beas

Q84. Who was awarded the 2018 Padma Bhushan Award in the field of Art-Music?

(a) Anuradha Paudwal
(b) R. Sathyanarayan
(c) Sharda Sinha
(d) Ibrahim Sultan

Q85. How many background colors are there in Bhutan’s national flag?

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

Q86. Match the following items of column (A) to items of column (B).

Column A	Column B
I. Polyester	1. Fabrics do not wrinkle easily
II. Teflon	2. Used for making parachutes
III. Rayon	3. Prepared by using wood pulp
IV. Nylon	4. For non-stick coating on cook

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

Q87. Which of the following fuels has maximum calorific value?

(a) Petrol
(b) Coal
(c) Wood

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(d) Cow dung

Q88. Election Commission is not concerned with which of the following elections?

(a) Election of President of India
(b) Elections of Parliament
(c) Elections of State Legislature
(d) Elections of Panchayats

Q89. The Attorney General of India is appointed by whom?

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

Q90. Which plant tissue is also known as growing tissue?

(a) Only Permanent tissue
(b) Only Meristematic tissue
(c) Both Permanent and meristematic tissue
(d) Neither Permanent nor meristematic tissue

Q91. Match the following

Scientist	Contribution
I. Charles Robert	1. Origin of life on Earth
II. Gregor Johann	2. Theory of evolution
III. J.B.S. Haldane	3. Law of inheritance

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

Q92. Who launched the ‘National Biopharma mission’ named ‘i3’ in June 2017?

(a) Piyush Goyal
(b) Rajnath Singh
(c) Dr. Harsh Vardhan
(d) Arun Jaitley

Q93. California - based private spaceflight company SpaceX has launched which secret mission for United States government?

(a) Sprint
(b) Zuma
(c) Cygnus
(d) Dream Chaser

Q94. In December 2017, SEBI tightened rating agency norms. The net worth requirement for rating agencies has now been increased from Rs. 5 crore to _____.

(a) Rs. 10 crore
(b) Rs. 15 crore
(c) Rs. 20 crore
(d) Rs. 25 crore

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Q95. In April 2017, Agriculture Ministry Unveiled Model APMC Act. The new Act proposes to put a Cap on Mandi taxes at what rate (in percent) for food grain?

(a) 5
(b) 1
(c) 2.5
(d) 8

Q96. Calculate the pressure (in Pa) if a thrust of 600 N is applied to an area of 24 m^2.

(a) 144
(b) 50
(c) 25
(d) 72

Q97. The ratio of change in velocity of a body to the total time taken by it is its _____.

(a) Acceleration
(b) Displacement
(c) Force
(d) Momentum

Q98. The greater the difference in _____, the faster the air moves.

(a) humidity
(b) pressure
(c) altitude
(d) latitude

Q99. Which of the statements given below are correct?

A) Viktor Axelsen won the Men's Singles Badminton 2017 BWF World Championships.
B) Max Verstappen won the Formula One 2017 United States Grand Prix.
C) In 2018 IPL auctions, Sunrisers Hyderabad retained David Warner.

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

Q100. In Microsoft Word, under paragraph formatting _____ is used to align paragraph on right, left and centre.

(a) Font style
(b) Indentation
(c) Alignment
(d) Spacing

ANSWER KEY

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

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91 a	92 c	93 b	94 d	95 d	96 c	97 a	98 b	99 b	100 c

SOLUTIONS

Q1. Answer: (d) beneficial

The correct answer is beneficial

Key Points

• Beneficial means producing good results or helpful effects: conferring benefits

• Example: the beneficial effects of regular exercise

Q2. Answer: (d) ABC

To nod = lower and raise one's head slightly and briefly showing agreement.

Clearly, A (head) must be first. Option 1) ABC is the correct answer.

She nodded her head, and unapologetically shrugged her shoulders while pointing to the fine receipt she had just handed to me.

Q3. Answer: (a) compromise

We are living in = present tense. We are talking about a general thing => use simple present tense. Option 1) compromise is the correct answer.

Q4. Answer: (c) being

If you exist among happy people, it can cheer you up. This is the meaning of the sentence. Option 3) being (existing) is the correct answer.

Q5. Answer: (a) Propulsion

The correct answer is propulsion

Key Points

• Propulsion: the action or process of propelling (to drive forward)

Example: Sailboats use wind as their source of propulsion.

• Astern: behind or towards the rear of a ship or aircraft.

Example: The ship went full speed astern.

• Abaft: behind.

Example: abaft the mast

• Propitiate: win or regain the favour of (a god, spirit, or person) by doing something that pleases them.

Example: I've never gone out of my way to propitiate people.

• Thus, the correct answer is 'propulsion'.

Q6. Answer: (a) Opprobrium

The correct answer is Opprobrium

Key Points

• Opprobrium: open criticism or disapproval of something that someone has done.

Example: His political opinions have attracted the opprobrium of the Left.

• Kudos: praise and honour received for an achievement.

Example: a new hotel chain that has won kudos for the way it treats guests.

• Plaudit: praise.

Example: Her technique has earned her many plaudits.

• Ovation: a sustained and enthusiastic show of appreciation from an audience, especially by means of applause.

Example: They had lost by a wide margin, but their supporters gave them a defiant, loyal ovation.

• Thus, the correct answer is 'Opprobrium'

Q7. Answer: (b) A day on which everything seems to go wrong.

The correct answer is A day on which everything seems to go wrong.

Key Points

• A bad hair day: People sometimes say they are having a bad hair day when they do not feel very happy or relaxed, especially because their hair does not look good.

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• Example: Mine was an especially unflattering photo, taken in poor light on a bad hair day.

Q8. Answer: (d) To decide not to do something because you are too frightened.

The correct answer is To decide not to do something because you are too frightened.

Key Points

• Chicken out: If someone chickens out of something they were intending to do, they decide not to do it because they are afraid

• Example: His mother complains that he makes excuses to chicken out of family

Q9. Answer: (b) Both

The correct answer is 'Both'.

Key Points

• Both- Used to refer to two things or people together.

• For example- Both those chairs are occupied, I'm afraid.

• In this sentence history and sociology are being talked together.

• So, the correct answer for the given blank is 'Both'

Therefore, the correct sentence is- Up in a word. Both history and sociology

Additional Information

• Let's see the use of other given options.

• Twice- Two times, on two occasions.

• For example- I only wore it twice.

• Pair- a set of two things used together or regarded as a unit.

• For example- I'm going to buy a new pair of shoes.

• Two- A quantity or number.

• For example- She is two years older than you.

Q10. Answer: (a) as

As _____ as is used for comparison, with the blank filled with the positive degree of the adjective. Option 1) as is the correct answer.

Q11. Answer: (a) for

The correct answer is 'For'.

Key Points

• 'For the sake' is a widely used idiom in everyday conversation which means purpose or in order to achieve that result.

• 'For' preposition is used to talk about a purpose or a reason for something.

• For example- I'm going for some breakfast.

• So, according to both explanation it is clear that 'For' is the best suitable option.

Therefore, the correct sentence is- It is necessary for the sake of clear thinking.

Additional Information

• Of- Used to help quantify a time or measurement, identify a location and also create more general relationships between objects and their nouns.

• For example- The first page of the book describes the author's profile.

• To- Used to indicate a destination or direction.

• For example- We're going to Liverpool next week.

• From- to refer to the place where someone or something starts or originates.

• For example- We get our vegetables from the farm shop.

Q12. Answer: (c) various

The blank must describe disciplines => use adjective. Option 3) various is the only possible choice.

Q13. Answer: (a) important

Clearly, the blank must describe thing => use adjective. Option 1) important is the only possible choice.

Q14. Answer: (c) Minuscule

The correct answer is Minuscule.

Key Points

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• From the above options, we find that all the spellings are wrong except the Minuscule.

• Minuscule: Extremely small and tiny.

• The spelling Minuscule and Miniscule is correct for the same word.

Q15. Answer: (b) The king exclaimed sadly that their enemies were too strong.

The correct answer is The king exclaimed sadly that their enemies were too strong.

Key Points

While changing the narration of an exclamatory sentence, we need to follow the steps given below-

• An exclamatory sentence expresses a state of joy, sorrow, or wonder, to change them into Indirect Speech, specific words (i.e. exclaimed with joy, exclaimed with sorrow, exclaimed with surprise, etc.) are added to the sentence.

• Put "that" between the reporting and reported speeches. (it is optional to put "that" between the reporting and reported speech)

• Present indefinite tense in direct speech is changed into past indefinite tense in indirect speech.

• 'Our' will be changed into 'their'.

Thus, the sentence becomes: The king exclaimed sadly that their enemies were too strong.

Q16. Answer: (c) They were refused donation by him.

The correct answer is They were refused donation by him.

Key Points

• In Active Voice, a sentence emphasizes the subject, performing an action.

• In Passive Voice, a sentence emphasizes the action or the object of the sentence.

• The given sentence is in the active voice and 'He' is the subject and 'them' is the object.

• When we convert this sentence into passive voice, the subject 'He' of the active voice becomes the object (him), the object 'them' becomes the subject 'they'.

• The passive format "were + V3 (refused)" should be used.

• This is the active and passive voice rule for the past simple tense.

Hence, the correct answer is option 3.

Additional Information

• Verbs of passive format have a different set of tenses (*V3 - Past participle or Third form of the Verb) as given below in the table:

TENSE	ACTIVE	PASSIVE	PASSIVE CONVERSION
Present Simple	He plays football	am/is/are + V3	Football is played by him
Present Continuous	He is playing football	am/is/are + being +V3	Football is being played by him
Present Perfect	He has played football	Has/have + been+ V3	Football has been played by him
Present Perfect Continuous	He has been playing football	Not used and unusual.	Not used and unusual
Past Simple	He played football	Was/were + V3	Football was played by him
Past Continuous	He was playing football	Was/were + being + V3	Football was being played by him
Past Perfect	He had played football	Had + been + V3	Football had been played by him
Past Perfect Continuous	He had been playing football	Not used and unusual	Not used and unusual
Future Simple	He will play football	Will + be + V3	Football will be played by him
Future Continuous	He will be playing football	Not used and unusual	Not used and unusual
Future Perfect	He will have played football	Will have been + V3	Football will have been played by him
Future Perfect Continuous	He will have been playing football	Not used and unusual	Not used and unusual

Q17. Answer: (b) QPR

Developing is an adjective and therefore, must be followed by a noun. Thus, P (starts with and) can't be first. Rule out 1). A sentence can't end with a comma. Thus, P can't be last either. Rule out 3) and 4). Option 2) QPR is the correct answer.

In developing countries, due to high poverty and poor schooling opportunities, child labour is still prevalent.

Q18. Answer: (a) Dry

The correct answer is Dry

Key Points

• Meaning of the words given in the options are:

• Dank: A dank place, especially an underground place such as a cave, is unpleasantly damp and cold.

Example: The kitchen was dank and cheerless.

• Close: When you close something such as a door or lid or when it closes, it moves so that a hole, gap, or opening is covered.

Example: Zacharias heard the door close.

• Sticky: A sticky substance is soft, or thick and liquid, and can stick to other things.

Example: If the dough is sticky, add more flour.

• Moist: Something that is moist is slightly wet.

Example: The soil is reasonably moist after the September rain.

• Dry: If something is dry, there is no water or moisture on it or in it.

Example: Clean the metal with a soft dry cloth.

• Thus, 'dry' is the correct answer.

Q19. Answer: (a) Reserved

The correct answer is Reserved

Key Points

• Meaning of the words given in the options are:

• Voluble: If you say that someone is voluble, you mean that they talk a lot with great energy and enthusiasm.

Example: She was voluble with excitement.

• Reserved: Someone who is reserved keeps their feelings hidden.

Example: He was unemotional, quite quiet, and reserved.

• Talkative: Someone who is talkative talks a lot.

Example: A talkative friend is lucky for you.

• Fluent: Someone who is fluent in a particular language can speak the language easily and correctly.

Example: He speaks fluent Russian.

• Gabby: inclined to chatter; talkative

Example: The gabby neighbor was suddenly at a loss for words.

• **Thus, 'reserved' is the correct answer.

Q20. Answer: (c) Budding

The solution is in Hindi. Read it online.

Q21. Answer: (c) Ace

The correct answer is 'Ace'.

Key Points

• Virtuoso = a person highly skilled in music or another artistic pursuit; expert; ace

• E.g.- We have seen a virtuoso display of synthetic anger from the master himself.

• Ace- a person who excels at a particular sport or other activity.

• E.g.- He aced his annual physical.

• Thus, according to the above mentioned meaning definition both words are synonyms to each other and therefore the answer.

Q22. Answer: (b) laziness

The correct answer is laziness

Key Points

• Meaning of the words given in options:

• Ciliation: possessing or relating to cilia

• laziness: the quality of being unwilling to work or use energy; idleness

• abolition: the action of abolishing a system, practice, or institution

• bisection: to divide into two equal parts

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• Working hard ensures that you remain healthy. The opposite of that is being lazy.

• Thus, Option 2) laziness is the correct answer.

Q23. Answer: (c) such a complicated

Such = to indicate the type mentioned. Clearly, equation = singular. Use article a to indicate its quantity. Option 3) such a complicated is the correct answer.

We use 'such' before a noun or an adjective + a noun. If there is 'a' or 'an', it goes after 'such'. She was such a beautiful woman (= she was a very beautiful woman). NOT: 'she was a so beautiful woman'.

Q24. Answer: (c) 3

The error is in 3). The correct order of adjectives is Quantity-Opinion-Size-Shape-Age-Colour-Origin-Material-Type-Purpose.

Single = quantity.

Largest = size.

Thus, the sentence is wrong because of the order.

the single largest machine in the world.

Notice that a had also been wrongly used in place of the.

Q25. Answer: (b) 2

The correct answer is 2

Key Points

• 'would have bought' will be there in place of 'will buy'

• What are Third conditional sentences?

Third conditional sentences are used to explain that present circumstances would be different if something different had happened in the past.

We use (had +past participle) in "if clause" and (should have/ could have/would have.. +verb3 form) in "main clause."

EXAMPLES:

• If you had studied harder, you would have passed the exam.

• If I had known you were sick, I would have visited you in the hospital.

Thus, the correct sentence is: If I had cared, I would have bought it again.

Q26. Answer: (c) Brick : Wall

The pattern followed here is:-

In Gold : Jewellery

Jewellery is made of Gold

Similarly,

In Brick : Wall

Wall is made of Brick

Hence, the correct answer is "Brick : Wall".

Q27. Answer: (b) 28

The logic followed here is:-

The second number in the pair is the product of digits of the first number

In 94 : 36

9 × 4 = 36

Similarly,

In 47 : 28

4 × 7 = 28

Hence, the correct answer is "28".

Q28. Answer: (a) RIG : TLK

The logic used here is,

MLF: OOJ

Similarly,

RIG: TLK

Hence, the correct answer is " RIG: TLK ".

Q29. Answer: (a) Cricket

The pattern is followed here is:-

S. no	Game	Types of game
1)	Cricket	Outdoor game
2)	Ludo	Indoor game
3)	Chess	Indoor game
4)	Carrom	Indoor game

As we can seen clearly, Except cricket, all other are the indoor games.

Hence, the correct answer is "Cricket".

Q30. Answer: (d) 63 - 67

The logic follows here is:-

Second number - First number = 2

1) In 69 - 71

71 - 69 = 2

2) In 61 - 63

63 - 61 = 2

3) In 77 - 79

79 - 77 = 2

4) In 63 - 67

67 - 63 = 4

Hence, the correct answer is "63 - 67".

Q31. Answer: (b) KR

1) HM → H = 8; M = 13 → 13 - 8 = 5

2) KR → K = 11; R = 18 → 18 - 11 = 7

3) SX → S = 19; X = 24 → 24 - 19 = 5

4) GL → G = 7; L = 12 → 12 - 7 = 5

Here, we can see that Option 2 is the odd one.

Hence, the correct answer is " KR ".

Q32. Answer: (d) 35124

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

3. Include

5. Income

1. Incomplete

2. Incorrect

4. Increment

Hence, the correct answer is "35124".

Q33. Answer: (c) 352

The logic followed here is:-

Hence, the correct answer is "352".

Q34. Answer: (c) Y

The logic followed here is,

Hence, the correct answer is " Y ".

Q35. Answer: (b) Arun

Let the weight of Ankit is 9x kg

Weight of Deep → 1/9 × 9x = x kg

Weight of Ram → 4 × x = 4x kg

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Weight of Bablu → 4x/2 = 2x kg
Weight of Arun → 4/7 × 2x = 1.14x kg
Ankit > Ram > Bablu > Arun > Deep
As we can seen clearly, Arun's weight is more than the weight of Deep but less than the weight of Bablu.
Hence, the correct answer is "Arun".

Q36. Answer: (a) Fate

Given word → Heating
1) Fate → Heating (Cannot be formed because F word is missing in Heating)
2) Ate → Heating (All the letter are present so, the word 'Ate' can be formed)
3) Gate → Heating (All the letter are present so, the word 'Gate' can be formed)
4) Gain → Heating (All the letter are present so, the word 'Gain' can be formed)
Hence, the correct answer is "Fate".

Q37. Answer: (c) 20151814

The pattern followed here is:-
Each letter is represented by its positional value in alphabetical series.
LINK is coded as 1291411
L = 12, I = 9, N = 14, K = 11
FUEL is coded as 621512
F = 6, U = 21, E = 5, L = 12
Similarly,
TORN is coded as 20151814
T = 20, O = 15, R = 18, N = 14
Hence, the correct answer is "20151814".

Q38. Answer: (b) 23

Equation after interchanging the signs,
5 × 20 ÷ 4 - 10 + 8 = ?
=> 25 - 10 + 8 = ?
=> 23 = ?
Hence, 23 is the correct alternative.

Q39. Answer: (c) • and ×

Equation we get on interchanging '+ and ×':
12 ÷ 4 - 15 + 10 × 2 = 8
=> 3 - 15 + 20 = 8
=> 8 = 8
Hence, we need to change '+ and ×' to prove the given equation correct.

Q40. Answer: (a) 50

The followed pattern is:
aΔb = 10 × (a + b)
4Δ2 = 60 → 10 × (4 + 2) = 60
7Δ9 = 160 → 10 × (7 + 9) = 160
8Δ3 = 110 → 10 × (8 + 3) = 110
3Δ2 = ? → 10 × (3 + 2) = 50
Hence, 50 is the correct alternative.

Q41. Answer: (d) XXXXXXY

The pattern followed here is,
Starting from backward of every term, replace an alternate letters by Y and X respectively.

X	**Y**	**Y**	**Y**	**Y**	**Y**	**Y**

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X	X	Y	Y	Y	Y	Y
X	X	X	Y	Y	Y	Y
X	X	X	X	Y	Y	Y
X	X	X	X	X	Y	Y
X	X	X	X	X	X	Y

Hence, the correct answer is " XXXXXXY ".

Q42. Answer: (d) 25 m North

As per the given information,

1) L walks 10 m south.

2) Then turns left and walks 25 m.

3) M walks 20 m west.

4) Then turns to his right and walks 15 m.

5) Then turns east and walks 45 m.

Now, combining the distance and turns of both L and M, we get:

As per the above diagram, distance between L and M = (15 + 10) m = 25 m.

Hence, the correct answer is " 25 North ".

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

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

Conclusions:

I. All pockets are wallets → False (It is possible but not definite)

II. No wallets are pockets → False (It is not possible)

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

Q44. Answer: (a) IDH

As per the given information,

→ Rectangle represents Opticians.

→ Square represents Europeans.

→ Triangle represents Campers.

Hence, the correct answer is " IDH ".

Q45. Answer: (d) RAH

The logic followed is,

Hence, the correct answer is " RAH ".

Q46. Answer: (a) 80

The followed pattern is:

Hence, the correct answer is " 80 ".

Q47. Answer: (d) (22, 26, 32)

The followed logic is:

→ (x, x + 4, x + 4)

On checking each option:

1) (17, 21, 25) → 17 + 4 = 21; 21 + 4 = 25

2) (12, 16, 20) → 12 + 4 = 16; 16 + 4 = 20

3) (19, 23, 27) → 19 + 4 = 23; 23 + 4 = 27

4) (22, 26, 32) → 22 + 4 = 26; 26 + 6 = 32

Here, we can see that Option 4 doesn't satisfy the logic.

Hence, the correct answer is " (22, 26, 32) ".

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Q48. Answer: (b) [figure]

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

Hence, the correct answer is " Option 2 ".

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: (d) [figure]

Given →

Unfolded cube

The opposite sides of the cube when the unfolded cube will be folded are:-

Checking option one by one:-

1) Cube in option figure (1) one can be formed as no two opposite faces of the cube are present adjacent to each other.

2) Cube in option figure (2) one can be formed as no two opposite faces of the cube are present adjacent to each other.

3) Cube in option figure (3) one can be formed as no two opposite faces of the cube are present adjacent to each other.

4) Cube In the option (4) cannot be formed as two opposite faces of the cube i.e.

and

are adjacent to each other while they should be opposite.

Hence, the correct answer is "Option 4".

Q50. Answer: (b) 32, 57, 55, 97

The pattern followed here is:-

A letter is represented first by its row number of the matrix then by its column number of the matrix.

1) In 20, 79, 42, 96

20 → F; 79 → W; 42 → M; 96 → Q (So, the word formed is 'FWMQ')

2) In 32, 57, 55, 97

32 → E; 57 → N; 55 → V; 97 → Y (So, the word formed is 'ENVY')

3) In 40, 89, 30, 78

40 → K; 89 → R; 30 → H; 78 → U (So, the word formed is 'KRHU')

4) In 11, 65, 10, 69

11 → J; 65 → P; 10 → G; 69 → Q (So, the word formed is 'JPGQ')

Hence, the correct answer is "32, 57, 55, 97".

Q51. Answer: (a) 10000045

Calculation:

The smallest 8 digit number = 1,00,00,000

If we add 45 in 76 the number become divisible by 121. So, the smallest 8 digit number which exactly divisible by 121 = 1,00,00,000 + 45 = 1,00,00,045

Therefore The correct answer is 1,00,00,045.

Q52. Answer: (c) 1

Calculation:

In this type question we divide the remainder by the same number (which is asked in the question)

Because Remainder = 27 and the number = 13

So, remainder is 1

Therefore The correct answer is 1.

Q53. Answer: (a) (16√3)/5

Calculation:

=> (6√ 2)/(5√ 3)~ × (√2 + √18)

=> (6√ 2)/(5√ 3) ×(√2 + 3√2)

=> (6√ 2)/(5√ 3) × 4√2
=> 48/(5√3)
=> (16√3)/5
Therefore The correct answer is (16√3/5).

Q54. Answer: (c) 15

Calculation:
(4√(y^8)) = 225
=> y^(8/4) = 15 × 15
=> $y^2 = 15^2$
=> y = 15
Therefore Option 3 is the correct answer.

Q55. Answer: (b) 16

Given:
In-radius of equilateral triangle = 8 cm
Calculation:
Ratio of in-radius to circum-radius in equilateral triangle = 1 : 2
Let in radius of the equilateral triangle is x. So, circum-radius of the equilateral triangle is 2x.
Given that,
The in radius of the equilateral triangle is 8 cm
=> x = 8
Circum-radius of the equilateral triangle = 2x = 2 × 8 = 16 cm
Therefore The correct answer is 16 cm.

Q56. Answer: (b) AC = CD

Calculation:
In ΔABC,
angle C = 180° – angle B - angle A = 180° (- 30° – 90°) = 60°
Now, angle DCA + angle ACB = 180°
=> angle DCA + 60° = 180°
=> angle DCA = 180 – 60 = 120°
In ΔACD,
angle ACD + angle CDA + angle DAC = 180°
=> 120 + angle CDA + 30 = 180
=> angle CDA = 180 – 150
=> angle CDA = 30°
In ΔACD, angle CDA = angle DAC
So, ΔACD isosceles triangle.
AC = CD
Therefore The correct option is 2.

Q57. Answer: (c) 3922

Calculation:
The value of 53% of 7400 = 7400 × 53/100 = 3922
Therefore The correct answer is 3922.

Q58. Answer: (b) 3500

Given:
Total amount = Rs.9000
P : Q : R = 5 : 6 : 7
Calculation:
Ratio of P, Q and R = 5 : 6 : 7
Total amount which divided = 9000

The share of R = 9000 × 7/18 = Rs.3500

Therefore The correct answer is Rs.3500.

Q59. Answer: (c) 12.5

Given:

Total weight = 50 kg

Calculation:

Quantity of gravel in 50 kg mixture = 50 × 10/100 = 5kg

Let the quantity of gravel which added be = x kg

According to the question

=> (5 + x) / (50 + x) = 28%

=> (5 + x) / (50 + x) = 28/100

=> (5 + x) / (50 + x) = 7/25

=> x = 12.5

12.5 kg of gravel must be added to make the gravel content 28% in the new mixture.

Therefore The correct answer is 12.5 kg.

Alternate MethodCalculation:

	Gravel	Cement
10% Gravel	1	9
28% Gravel	7	18

Now,

Cement quantity must be same

Gravel : Cement = (1 : 9) × 2 = 2 : 18

So, (2 + 18) = 20 units = 50 kg

=> 1 unit = 5/2

=> (7-2) = 5 unit = (5/2) × 5 = 25/2 = 12.5 kg

Therefore The correct answer is 12.5 kg.

Q60. Answer: (a) 30

Given:

Average of 7 numbers = 30

Average of first 3 numbers = 25

Average of last 3 numbers = 35

Calculation:

Average of 7 numbers = 30

So, Sum of 7 numbers = 30 × 7 = 210

Average of first 3 numbers = 25

So, the sum of first 3 numbers = 25 × 3 = 75

Average of last 3 numbers = 35

So, the sum of the last 3 numbers = 35 × 3 = 105

Fourth number = Sum of 7 numbers - (sum of first 3 numbers + sum of the last 3 numbers)

=> 210 – (105 + 75) = 210 – 180 = 30

Therefore The correct answer is 30

Q61. Answer: (d) 1025

Given:

Total sum = Rs.10,000; Time = 1 year; Rate = 10 %

Calculation:

If interest is compounded half-yearly, then

Rate of interest (r) = 10/2 = 5% and time (t) = 1 × 2 = 2

Total CI percentage in 1 years = 5 + 5 + (5 × 5)/100

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=> 10 + 0.25 = 10.25%

Required interest = 10,000 × 10.25/100 = 1025

Therefore The correct answer is Rs.1025.

Q62. Answer: (a) Rs. 756 profit

Given:

C.P of first laptop = Rs.42500

C.P of second laptop = Rs.36200

Calculation:

CP of first laptop = 42500

Thus, SP of first laptop = 42500 × 112/100 = 47600

CP of second laptop = 36200

Thus, SP of second laptop = 36200 × 88/100 = 31856

Total CP of first and second laptop = 42500 + 36200 = 78700

And total SP of first and second laptop = 47600 + 31856 = 79456

Profit = Total SP – Total CP = 79456 – 78700 = 756

Therefore The correct answer is Rs.756.

Q63. Answer: (d) 13 : 9

Calculation:

Let MP of first article = x

And MP of other article = y

Then, according to the question,

x × 45% = y × 65%

=> x/y = 65/45

=> x : y = 13 : 9

Respective ratio of the marked price of both the articles = 13 : 9

Therefore The correct answer is 13 : 9.

Q64. Answer: (a) 75

Calculation:

=> cbrt729 × √16 + √676 + √169

=> 9 × 4 + 26 + 13

=> 36 + 26 + 13

=> 75

Therefore The correct answer is 75.

Q65. Answer: (c) 28

Given:

P and Q together can make a door = 12 days.

Calculation:

Let total work = 1

Work done by (P + Q) in 1 day = 1/12

Work done by (P + Q) in 8 days = 8/12

Remaining work = 1 – 8/12 = 1/3

And 1/3^(rd) part of work complete by Q = 7 days

So, whole work complete by Q = 7 × 3 = 21 days

P can alone complete the entire work = 1/[1/12 – 1/21] = 1/1/28 = 28 days

Therefore The correct answer is 28 days.

Shortcut TrickConcept used:

Efficiency × time = total work

Calculation:

Total work = (P + Q) × 12

According to the question:
=> (P + Q) × 8 + Q × 7 = (P + Q) × 12
=> Q × 7 = (P + Q) × 4
=> Q × 3 = P × 4
=> P/Q = 3//4
Now, total work = (P + Q) × 12
=> (3 + 4) × 12 = 7 × 12 = 84
P alone complete the entire work = 84/3 = 28 days
Therefore The correct answer is 28 days.

Q66. Answer: (b) 5 : 6

Given:
Speed of train A = 40 km/hr
Speed of train B = 60 km/hr
Calculation:
Let train A with 40 km/hr speed starts from point P, moving towards point Q
And train B with 60 km/hr speed stars from point Q, moving towards point P.
Time taken by train A to reach at point R = 5 hr
And time taken by train B to reach at point R = 4 hr
Distance covered by train A to reach at point R = 5 × 40 = 200
And distance covered by train B to reach at point R = 4 × 60 = 240
Thus, PR = 200 km & QR = 240 km
PR : QR = 200 : 240 = 5 : 6
Therefore The correct answer is 5 : 6.

Q67. Answer: (a) 160000

Calculation:
Total sales = A + B + C + D + E + F + G = (390 + 280 + 70 + 100 + 160 + 140 + 460) × 1000 = 16,00,000
Tax on total sales = 16,00,000 × 10/100 = 160,000
Therefore The correct answer is 160,000.

Q68. Answer: (b) 0.6

Calculation:
Sales of brand E = 160
& Sales of brand D = 100
Sales of E greater than that of brand D by = (160 – 100)/(100)
=> 60/100 = 0.6
Therefore The correct answer is 0.6.

Q69. Answer: (d) 4 : 1

Calculation:
Sales of brand B = 280
Sales of brand C = 70
Ratio of sales of brand B to that of brand of C = B : C = 280 : 70 = 4 : 1
Therefore The correct answer is 4 : 1

Q70. Answer: (b) A

Calculation:
Sales of mobile phone brand A were the second highest = Rs.390000
Therefore The correct answer is Rs.390000.

Q71. Answer: (b) 34

Given:
Diagonal of rectangle = 13 cm

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Side of rectangle = 5 cm
Calculation:
AC = 13 cm & BC = 5 cm
In right triangle ABC
By Pythagoras Theorem:
=> $(AC)^2 = (AB)^2 + (BC)^2$
=> $(13)^2 = (AB)^2 + 5^2$
=> AB = 12
So, Length of the rectangle (l) =12
And the breadth of the rectangle (b) = 5
Perimeter of the rectangle = 2 (l + b)
=> 2 × (12 + 5) = 2 × 17 = 34 cm
Therefore The correct answer is 34 cm.

Q72. Answer: (a) 1386

Given:
Perimeter of a semicircle = 108 cm
Calculation:
Perimeter of semicircle = πr + 2r
=> 108 = πr + 2r
=> 108 = (22/7 + 2) × r
=> 108 = 36/7 × r
=> r = 21 cm
Area of circle = πr^2= 22/7 × 21 × 21 = 1386 cm^2
Therefore The correct answer is 1386 cm2.

Q73. Answer: (c) 28

Given:
Surface area of sphere = 2464 cm2
Formula used:
Surface area of sphere = 4πr2
Calculation:
Surface area of sphere = 2464
=> 4 × 22/7 × r^2 = 2464
=> r2 = 196
=> r = 14
Diameter of the sphere = 14 × 2 = 28 cm
Therefore The correct answer is 28 cm.

Q74. Answer: (c) 2/√3

Calculation:
=> cot 60° + 1/√3
=> 1/√3 + 1/√3 = 2/√3
Therefore The correct answer is 2/√3.

Q75. Answer: (a) 5/13

Shortcut Trick
In a right-angled triangle ΔPQR (at Q), angles P and R are complementary.
By trigonometric property: sin R = cos P.
Given sec P = 13/5, we know that cos P = 1/sec P.
=> cos P = 5/13.
=> sin R = 5/13.
Therefore The correct answer is 5/13.

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Alternate Method

Given: ΔPQR is right-angled at Q, and sec P = 13/5.

Formula Used: sec θ = Hypotenuse / Base and sin θ = Perpendicular / Hypotenuse.

=> For angle P: Hypotenuse (PR) = 13 and Base (PQ) = 5.

=> Using Pythagoras Theorem: QR = √(PR² − PQ²)

=> QR = √(13² − 5²) = √(169 − 25) = √144 = 12.

=> For angle R: The opposite side (Perpendicular) is PQ and the Hypotenuse is PR.

=> sin R = Opposite / Hypotenuse = PQ / PR.

=> sin R = 5/13.

Therefore The correct answer is 5/13.

Additional Information

Complementary Angle Relations

In a right-angled triangle, if A + B = 90°, then sin A = cos B, tan A = cot B, and sec A = cosec B.

Pythagorean Triplets

Common integer sets that satisfy $a^2 + b^2 = c^2$ include (3, 4, 5), (5, 12, 13), (8, 15, 17), and (7, 24, 25).

Reciprocal Identities

sec θ = 1/cos θ, cosec θ = 1/sin θ, and cot θ = 1/tan θ.

Q76. Answer: (b) Creditors

The ‘debenture’ is derived from the Latin word ‘debere’ which means ‘to owe’.

• It is a written instrument that acknowledges a loan to the company and is executed under the company’s common seal.

• It contains a contract for the principal amount to be repaid after a specified period or at intervals and for payment of interest at a fixed rate which is usually paid either half-yearly or yearly on fixed dates.

• A person having the debentures is called debenture holder. They are the persons or firms who purchase the debentures of other company. They are not concerned with the management and regulation of the company.

• Debentures are usually secured and carry a charge on the assets of the company, hence, debenture holders are the secured creditors of the company.

Q77. Answer: (d) Ministry of Finance

Currency notes and coins of one rupee and lower denominations are issued by the Ministry of Finance.

• Under the Coinage Act, 1906, the Government of India has the sole right to mint coins.

• According to the Section 24(1) of the RBI Act, 1934, RBI is not entitled to issue banknote of denomination of value of one rupee.

• Also, ‘I promise to pay the bearer’ is not written on the one rupee note.

• The currency note of one rupee is issued by the Ministry of Finance and signed by the Finance Secretary of India.

Q78. Answer: (b) Ganeshwar

Of the following, Ganeshwar is not the place of Middle Stone Age.

• The site of Ganeshwar is located close to the copper mines of Sikar-Jhunjhunu copper belt of Rajasthan.

• There were many copper objects excavated from the area that included spearhead, arrowhead, chisel, bangles, and many microliths that were characteristic of the Chalcolithic Culture.

• People of Chalcolithic age used objects made of stone and copper.

• Ganeshwar predate the mature Harappan Culture.

Q79. Answer: (b) Razmanama

The title of the Persian translation of the Mahabharata is Razmanama.

• In Persian, ‘Razm’ means ‘war’, and ‘nama’ means ‘tale’. So, Razmnama means ‘tale of war’.

• Great Mughal Emperor, Jalal Ud-din Muhammad Akbar, commissioned the Mahabharata to be translated into Persian. The translation was carried out by Faizi (brother of Abu’lFazl) and Abd al-Qadir Bada’uni (1540 – 1615).

Q80. Answer: (c) Uranus

Uranus is the planet which moves in the opposite direction than other planets in the Solar System.

• Not only Uranus but Venus too has a retrograde rotation, i.e. they spin counter to the rotation of the Sun.

• The rotation in the same direction as the Sun rotates is termed as prograde rotation.

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Q81. Answer: (c) ArakanYoma Mountain

As per the structure and origin, the Highlands of Meghalaya is part of ArakanYoma Mountain.

• The Arakan Mountains, also known as Arakan Range, Rakhine Range, Rakhine Yoma, ArakanYoma, is the range of mountains in western Burma (Myanmar), between the coast of Rakhine State and the Central Burma Basin.

Q82. Answer: (a) Vardhman

The correct answer is Vardhman:

Key Points

• Lord Mahavira's name prior to acquiring the Knowledge was Vardhman.

• Vardhamana Mahavira (540 to 468 BC), a great Kshatriya, was born at Kundalgram (Vaishali), in Bihar.

• At the age of 42, he attained perfect knowledge, Kaivalya.

• He is regarded as the 24^(th)Tirthankara or prophet of Jainism.

Additional Information

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

• From now onwards he was called Kevalin (perfect learned), Jina (one who conquered his senses), Nrigrantha (free from all bonds), Arhant (blessed one) and Mahavira (the brave) and his followers were named Jain.

• He delivered his first sermon at Pava to his 11 disciples (known as Gandharvas). Later, hee founded a Jain Sangha at Pava.

• At the age of 72 in 468 BC, he passed away at Pavapuri near Biharsharif in Bihar. Sudharma only one of 11 Gandharvas who survived after the death of Mahavira.

Q83. Answer: (c) Jhelum

Under the Indus Water Treaty, India has not been given the exclusive right over the river Jhelum.

• The Indus Waters Treaty was signed by the then Prime Minister of India Jawaharlal Nehru and Pakistan's President Ayub Khan on 19 September 1960.

• The treaty deals with the river Indus and its tributaries that flow in both the countries and how it will be utilized.

• The deal is classified into two categories, the Eastern Rivers,and the Western rivers. The Eastern Rivers include Sutlej, Beas, and Ravi, while the Western Rivers include Jhelum, Chenab, and Indus.

Eastern Rivers	Western Rivers
Sutlej	Jhelum
Beas	Chenab
Ravi	Indus

• As per the Treaty, the Eastern Rivers are to be governed by India, while the Western rivers are to be taken care by Pakistan.

• As Indus flows from India, 20% of its water is allowed to be used by the country for power generation, irrigation, and transport purposes.

Q84. Answer: (c) Sharda Sinha

The 2018 Padma Bhushan Award in the field of Art-Music was awarded to Sharda Sinha.

• Ms Sharda Sinha is a folk-singer from Bihar.

• She is best known for her Chhath Puja themed songs.

• Ms Sinha, who is already a Padma Shri recipient, received Padma Bhushan on the eve of Republic day, 2018.

• Padma Bhushan, the third highest civilian award in the Republic of India, is awarded for distinguished service of high order.

• It is preceded by the Bharat Ratna and the Padma Vibhushan and followed by the Padma Shri.

Q85. Answer: (b) 2

There are two background colors in Bhutan’s national flag.

• The background colors of the flag are yellow and orange with a black and white dragon called the Druk (the Thunder Dragon) holding four jewels, or Norbu, in its claws.

• Bhutan is located in the Eastern Himalayas. It is landlocked between Sikkim (India) and the Chumbi Valley of Tibet in the west, the ArunachalPradesh (India) in the east, the Tibet Autonomous Region of China in the north, the states of Assam and West Bengal(India) in the south.

• The capital of Bhutan is Thimpu.

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Q86. Answer: (d) I – 1, II – 4, III – 3, IV – 2

Column A	Column B
I. Polyester	1. Fabrics do not wrinkle easily
II. Teflon	4. For non-stick coating on cook
III. Rayon	3. Prepared by using wood pulp
IV. Nylon	2. Used for making parachutes

• Polyester is synthetic fibre, made up of repeating units of esters (chemical).

• Teflon is a special type of plastic on which water, and oil do not stick.

• Rayon or artificial silk is obtained from wood pulp.

• Nylon, a synthetic fibre, is prepared from coal, water, and air. The fibre is strong, elastic, and light.

Q87. Answer: (a) Petrol

Out of the following fuels, Petrol has the maximum calorific value.

• We know that heat is produced when fuels are burnt. The amount of heat produced by burning or combustion of 1Kg of fuel is expressed in terms of calorific value.

• It is also known as energy value or heat of combustion.

• It is measured in units of energy per amount of material, e.g. KJ/g or kJ/kg, where KJ is Kilo Joules.

• Calorific Value of given fuels are as follows:

S.No.	Fuel	Calorific Value (in KJ/Kg)
1	Petrol	45
2	Coal	25 – 33
3	Wood	17 – 22
4	Cow dung	6 – 8

Q88. Answer: (d) Elections of Panchayats

Election Commission is not concerned with Elections of Panchayats.

Key Points

• According to Article 324 of the Constitution of India, the Election Commission is concerned only with the superintendence, direction and control of the preparation and conduct of all elections to Parliament and to the legislature of every State, offices of the President and the Vice-President.

• Article 243 K and Article 243 ZA provides for a separate State Election Commission for the purpose of conducting elections to the Panchayats and Municipalities in the State.

Q89. Answer: (d) President of India

Attorney General of India is appointed by the President of India.

• Attorney General of India is the Indian government's chief legal advisor and its primary lawyer in the Supreme Court of India.

• Under Article 76 (1), The President of India shall appoint a person who is qualified to be appointed a Judge of the Supreme Court to be Attorney General for India.

Q90. Answer: (b) Only Meristematic tissue

The correct answer is Only Meristematic tissue.

Key Points

• Meristematic tissue is also known as growing tissue.

• Meristematic tissues are responsible for the growth of the plant.

• They consist of immature cells which have the power to divide.

• On the basis of their position in the plant, meristems are apical, lateral & intercalary.

Apical Meristem	Increase length at the tip of the plant
Lateral Meristem	Increase diameter, the thickness of the plant
Intercalary Meristem	Increase the length of organs like leaves and internodes

Meristematic tissue:

• Growing regions of the plants are called Meristem.

• Meristematic tissue has the capability of cell division.

• It is round, oval, and multisided.

• It grows and constitutes the different parts of the plant.

There are three types of meristematic tissues-

• Apical meristem- these are located at the shoot tips and root tips.

• Intercalary meristem- located between permanent tissues, at the leaf base and nodes.

• Lateral meristem- located at the sides(edges).

Q91. Answer: (a) I – 2, II – 3, III – 1

Scientist	Contribution
I. Charles Robert	2. Theory of evolution
II. Gregor Johann	3. Law of inheritance
III. J.B.S. Haldane	1.Origin of life on Earth

• Charles Robert Darwin,in his book “The Origin of Species”, gave the Theory of Evolution by Natural Selection.

• Gregor Johann Mendel, also known as the father of genetics, gave the Law of Inheritance.

• The theory of origin of life on earth proposed by Haldane was confirmed by the experiments conducted by Stanley L. Miller and Harold C. Urey in 1953.

Q92. Answer: (c) Dr. Harsh Vardhan

Dr. Harsh Vardhan launched the ‘National Biopharma mission’ named ‘i3’ in June 2017.

• Under the National Biopharma Mission, the government launched a programme named Innovate in India (i3). It aims to create an enabling ecosystem, in order to promote entrepreneurship and indigenous manufacturing in the sector.

• In the global biopharmaceutical market, currently India has only 2.8% share, the program, however, aims at elevating this to 5%.

• i3 is a flagship program of the Government of India in collaboration with World Bank.

• Biotechnology Industry Research Assistance Council (BIRAC) will implement the mission.

Q93. Answer: (b) Zuma

California - based private spaceflight company SpaceX has launched secret Zuma mission for United States government.

• Zuma has been manufactured by Northrup Grumman.

• SpaceX (Space Exploration Technologies Corporation) is an aerospace manufacturer and space transport services company. Its headquarter is in California, U.S.

Q94. Answer: (d) Rs. 25 crore

In December 2017, SEBI tightened rating agency norms. The net worth requirement for rating agencieshas now been increased from Rs 5 crore to Rs. 25 crore.

• It imposed a 10 per cent cap on cross-shareholding of credit rating agencies, raised their net worth criteria to Rs. 25 crore from the current Rs. 5 crore and disallowed any seat on the rival’s board.

• Moody’s, S&P, and Fitch are the three of world’s largest Credit Rating agency.

• Securities and Exchange Board of India (SEBI) was established in 1988. It got its statutory mandate and powers under the SEBI Act, 1992.

Q95. Answer: (d) 8

Agriculture Ministry Unveiled Model APMC Act. The new Act proposes to put a Cap on Mandi taxes at 8 (in percent) for food grain.

• Its aim is to give more freedom to farmers to sell their produce and ensuring that the farmers are not exploited by intermediaries

• Farmers are required to sell their produce via auction at the mandi in their region.

Q96. Answer: (c) 25

Pressure is the force applied perpendicular to the surface of an object per unit area over which that force is distributed.

Pressure = (Force (in Newton))/(Area (in m^2)) = 600/24 = 25 Pascal

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Q97. Answer: (a) Acceleration

The ratio of change in velocity of a body to the total time taken by it is its acceleration.

• Acceleration, a = (Change in velocity)/(Time Taken)

• Acceleration of a body is defined as the rate of change of its velocity.

• It is a vector quantity and its S.I. Unit is ms^(-2).

• Velocity of a body is the displacement undergone by the body per unit time.

Q98. Answer: (b) pressure

The greater the difference in pressure, the faster the air moves.

• Air moves from high pressure towards low pressure.

• The air in the lower atmosphere is denser than the air lying above.

• Therefore, air pressure below is more than above.

Q99. Answer: (b) A and C

Viktor Axelsen won the Men's Singles Badminton 2017 BWF World Championships.

In 2018 IPL auctions, Sunrisers Hyderabad retained David Warner.

• In 2017 BWF World Championship, Viktor Axelsen became the first Danish player to win gold in the men's singlesby beating China’s Lin Dan .The last Danish Badminton playerto win the title was Peter Rasmussen, in 1997. The 2017 BWF World Championships was held in Glasgow, Scotland.

• In 2018 IPL auctions, Sunrisers Hyderabad retained David Warner. Warner, an Australian international cricketer, was later barred by BCCI from competing in the IPL due to the ball-tampering controversy by Cricket Australia.

Q100. Answer: (c) Alignment

In Microsoft Word, under paragraph formatting Alignment is used to align paragraph on right, left and centre.

• Paragraph formatting refers to formatting features that get applied to an entire paragraph or paragraphs, but not to any given character or a group.

• It has following options:

• Paragraph Alignment

• Paragraph Indentation

• Paragraph Spacing

• The alignment of a paragraph can be left, center, right, or justify (low, medium, and high).

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