SSC CHSL Previous Paper 55 (Held On: 26 March 2018 Shift 3) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Evolutionary processes give rise to biodiversity in every (1)/ level of biological organisation, including the level of (2)/ species, individual organisms, and molecules. (3)/ No error (4)

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

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

Population decline, counter-urbanisation, invasion, and (1)/ movement of people, which had begun in Late (2)/ Antiquity, continued in the Early Middle Ages. (3)/ No error (4)

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

Q3. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The architect was unable to _____ those designs.

(a) Made
(b) Sketch
(c) Scatter
(d) Built

Q4. Choose the most appropriate answer to fill in the blank

Life is short but it has a _____ meaning.

(a) Rare
(b) Sharp
(c) Deep
(d) Blur

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

Pert

(a) Humble
(b) Lively
(c) Meek

(d) Timid

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

Copious

(a) Counterfeit
(b) Plentiful
(c) Commendable
(d) Deficient

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

Egregious

(a) Noticeable
(b) Gross
(c) Mild
(d) Obvious

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

Rectitude

(a) Goodness
(b) Infamy
(c) Honesty
(d) Character

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

The elusive

P: status in the Red List of the International

Q: snow leopard has lost its endangered

R: Union for Conservation of Nature

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

Q10. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

He gave her promotion happily.

(a) She was given promotion happily by him.
(b) She had been given promotion by him happily.
(c) Her promotion was gave happily by him.
(d) Her promotion was given.

Q11. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

Anuj said, “I need your help now.”

(a) Anju needed my help then.
(b) Anuj said that he needed my help then.
(c) Anuj said he needed my help now.
(d) Anuj says he needed my help now.

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Q12. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Hygiene
(b) Hygine
(c) Higine
(d) Hygeine

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The reason is a fear that we will not _____ find ourselves in that higher echelon of posts and achievements that get so many likes and reposts, a sign of success and _____ in our binary outlook. A darker worry also exists at the back _____ our mind. What if we end _____in the other group, an object of ridicule, derided as another in a long list of failures _____ embarrassments that go viral for all the wrong reasons?

Q13. we will not _____ find ourselves in that

(a) Automatically
(b) Automatic
(c) Automatical
(d) Automation

Q14. a sign of success and _____ in our binary outlook.

(a) Appreciate
(b) Appreciative
(c) Appreciation
(d) Appreciatively

Q15. at the back _____ our mind.

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

Q16. What if we end _____ in the other group

(a) Upon
(b) On
(c) Up
(d) Above

Q17. list of failures _____ embarrassments that go viral

(a) But
(b) Nor
(c) Also
(d) And

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

Stab someone in the back

(a) Praise someone.
(b) Like someone secretly.
(c) Betray someone.
(d) Meet someone after a long time.

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

Over my dead body

(a) Used to emphasize that one completely opposes something.
(b) Be dead sure of something.
(c) Feel afraid of something or someone.
(d) Feel unhealthy and very weak.

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

Farmland ploughed and harrowed but left for a period without being sown in order to restore its fertility

(a) Fallow
(b) Urbane
(c) Sophisticated
(d) Genteel

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

Showing or feeling no interest, enthusiasm, or concern

(a) Ardent
(b) Fervent
(c) Apathetic
(d) Melancholic

Q22. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Over the last few weeks I (has been) on a whirlwind series of travel for work and vacation.

(a) Have been
(b) Was been
(c) Have being
(d) No improvement

Q23. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

I closed the window just in time and (return) to my room with relief.

(a) Returns
(b) Returned
(c) Will return
(d) No improvement

Q24. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

In order to

A-regulate the technology and boost

B-the rankings, we need our

C-teachers to do exponential thinking

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

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

(a) Symptommatically
(b) Symptomaticaly
(c) Symptomatically
(d) Symptommaticaly

GENERAL INTELLIGENCE

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

Ohm : Resistance ? ? : ?

(a) Temperature : Degree
(b) Hectare : Area
(c) Energy : Watt
(d) Current : Ampere

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

16 : 23 ? 22 : ?

(a) 34
(b) 29
(c) 23
(d) 31

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

GOI : RZT ? FMD : ?

(a) PWN
(b) QXP
(c) PWO
(d) QXO

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

(a) Figure - Rectangle
(b) Ornament - Ring
(c) Vehicle - Scooter
(d) Necklace - Ornament

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) 17 – 34
(b) 37 – 74
(c) 43 – 86
(d) 29 – 59

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

(a) SKC
(b) ZRJ
(c) ZSK
(d) VNF

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

1. Pinnacle
2. Pigment
3. Pierce

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4. Phony

5. Pick

(a) 52431
(b) 45321
(c) 12453
(d) 23514

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

13, 19, 32, 51, 83, ?

(a) 142
(b) 134
(c) 156
(d) 140

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

CLG, GPK, KTO, OXS, ?

(a) TBW
(b) SZW
(c) SWA
(d) SBW

Q35. Suraj is shorter than Gopal but taller than Tarun. Rajan is the tallest and Shivam is shorter than Suraj but not the shortest. Who is the third shortest?

(a) Gopal
(b) Suraj
(c) Rajan
(d) Shivam

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

Endeavors

(a) Vote
(b) Rose
(c) End
(d) Done

Q37. In a certain code language, “LINKS” is written as “93210” and “CROMA” is written as “84576”. How is “ROCKS” written in that code language?

(a) 81054
(b) 83106
(c) 45810
(d) 10486

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

7 - 8 + 20 x 10 ÷ 9 = ?

(a) 18
(b) 20
(c) 22
(d) 14

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

16 × 4 - 10 + 2 ÷ 12 = 18

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

Q40. If 4!4 = 80, 3!8 = 110 and 6!2 = 80, then find the value of 7!9 = ?

(a) 70
(b) 100
(c) 60
(d) 160

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

ABABCDAB, ABADCBAB, ABCDABAB, ADCBABAB, CDABABAB, _____.

(a) ABABADCB
(b) ABABCDAB
(c) ABADCBAB
(d) CBABABAD

Q42. The fitness club has organised a race. The route goes 4.5 km West from the starting point. It then turns North and goes 3 kms, then turns East and goes 4.5 km, finally it turns left and goes 1.5 km to reach the end point. Where is the end point with respect to the start point?

(a) 4.5 km North
(b) 1.5 km South
(c) 4.5 km South
(d) 1.5 km 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 ribbons are tapes.

Statement II: Some strips are ribbons.

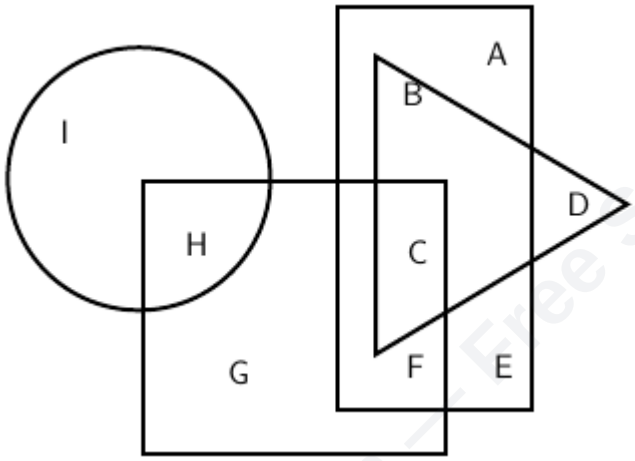
Conclusion I: All tapes are strips.

Conclusion II: No strips are tapes.

(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 Hairstylists, circle represents choreographers, triangle represents Mountain climbers and square represents Gymnasts. Which set of letters represents Gymnasts who are both Hairstylists as well as Mountain climbers?

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(a) CF
(b) GF
(c) C
(d) BC

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

AHR, HOY, OVF, VCM, ?

(a) CJT
(b) BKU
(c) ALV
(d) ZGQ

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

6, 13, 20, 27, ?

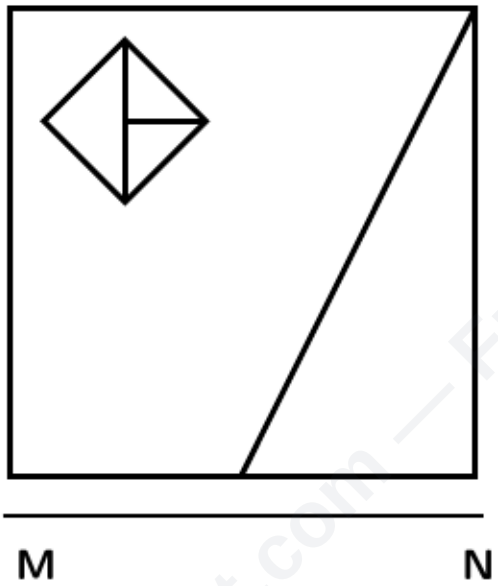
(a) 34
(b) 32
(c) 37
(d) 43

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) (7, 36, 21)
(b) (9, 46, 27)
(c) (11, 56, 33)
(d) (22, 106, 63)

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

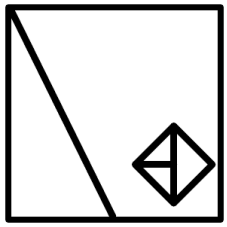
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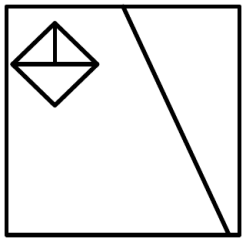
(a)



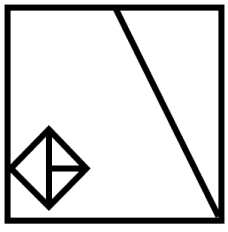
(b)



(c)

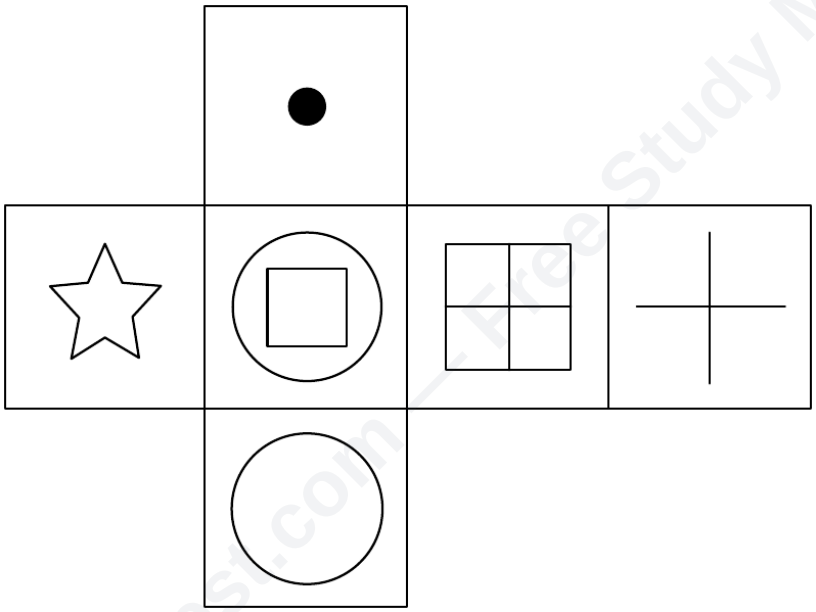


(d)

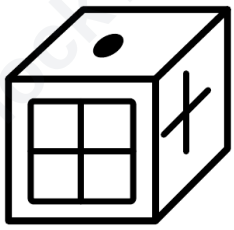


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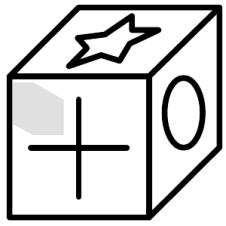
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



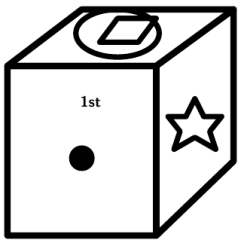
(a)



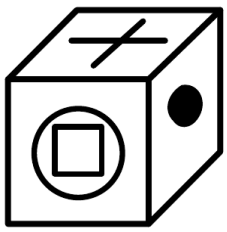
(b)



(c)



(d)



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Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matri×-I are numbered from 0 to 4 and that of Matri×-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and ne×t by its column, for e×ample 'C' can be represented by 21, 34 etc and 'T' can be represented by 97, 89 etc. Similarly, you have to identify the set for the word 'MAZE'.

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

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

(a) 22, 97, 43, 66
(b) 24,76,12,66
(c) 31,76,11,58
(d) 14,41,76,12

QUANTITATIVE APTITUDE

Q51. Find the average of first 20 multiples of 9.

(a) 94.8
(b) 94.7
(c) 94.6
(d) 94.5

Q52. Calculate (7| 2 - 6 | - 4| 5 | ÷ 5)/(- 7(2) - 2 × 2 ÷ 2 + 2)

(a) • 16/18
(b) • 14/7
(c) • 12/7
(d) • 12/18

Q53. Find the value of equation $a^3 + b^3 + c^3 - 3abc$. if $a^2 + b^2 + c^2 = ab + bc + ca + 4$ and $a + b + c = 4$.

(a) 0
(b) 1
(c) 16
(d) 256

Q54. What is the x – intercept of the linear equation 18x + 25y – 900 = 0?

(a) 18
(b) 25
(c) 50
(d) 450

Q55. Two equal circles intersect each other at point A and B, whose centers are O and O'. OO' = 24 mm and AB = 10 mm, then find the area (in sq. mm) of the circle.

(a) 530.66
(b) 520.66
(c) 510.33
(d) 500.33

Q56. The length of the diameter of the circle is 10 cm and length of the chord drawn in a circle is 6 cm. Find the distance (in cm) of chord from the center.

(a) 10
(b) 8
(c) 6
(d) 4

Q57. 60% of P = 50% of Q and Q = x% of P. What is the value of x?

(a) 130
(b) 120
(c) 140
(d) 80

Q58. X, Y and Z are partners in a company. In one year X receives 1/4 part of profit, Y receives 1/5 part of profit and Z receives Rs. 22000. How much amount (in Rs.) will X get as profit?

(a) 10000
(b) 12000
(c) 15000
(d) 18000

Q59. P and Q started a business by investing Rs. 50000 and Rs. 40000 respectively. After 4 months, P withdraws Rs. 20000 while Q invests Rs. 70000 more after 6 months of starting the business. At the end of the year P's share in the profit is Rs. 11000. What will be the total profit (in Rs.) at the end of year?

(a) 33500
(b) 22500
(c) 42800
(d) 38800

Q60. The average weight of 25 candles is 40 grams. If some candles of weight 50 grams each were removed then the average weight becomes 37.5 grams. How many candles of weight 50 grams each were removed?

(a) 3
(b) 5
(c) 8
(d) 12

Q61. Simple interest on a sum for 9 months at 8% per annum is Rs. 270. What is the value (in Rs) of the sum?

(a) 5200
(b) 5400
(c) 4500
(d) 3600

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Q62. The difference between cost price and selling price is Rs. 575. If profit percentage is 23%, then what is the selling price (in Rs.)?

(a) 3225
(b) 1925
(c) 2500
(d) 3075

Q63. A merchant marks the price of his articles 20% above the cost price. If he allows 20% discount, then what is the profit or loss percentage?

(a) 2% loss
(b) 4% profit
(c) 4% loss
(d) No profit/loss

Q64. What is that least digit that must be added to the product 5786 × 5784 to make it a perfect square?

(a) 1
(b) 6
(c) 5
(d) 4

Q65. 20 boys do one fourth of a work in 25 days. How many more boys will be required to complete the remaining work in 50 days?

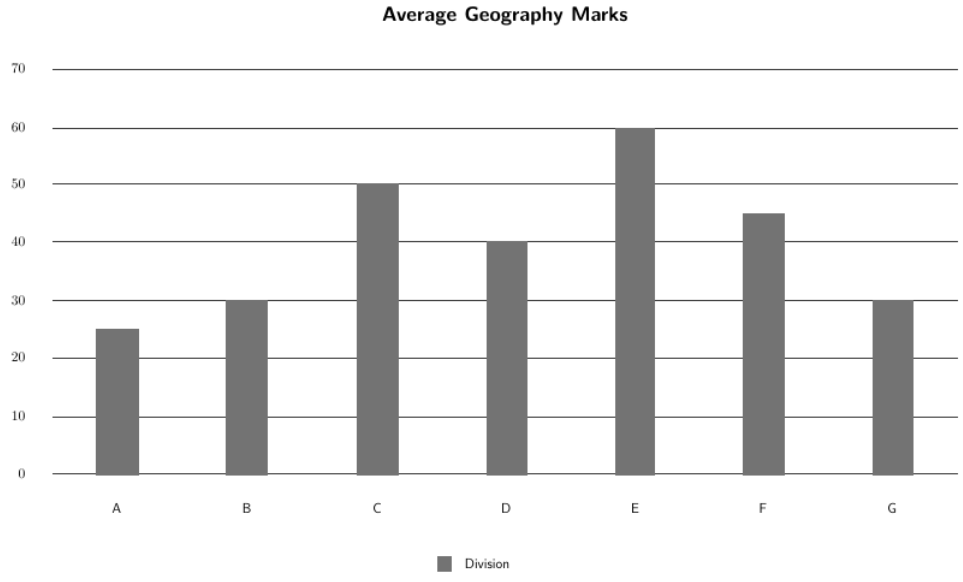
(a) 8
(b) 10
(c) 15
(d) 20

Q66. When Gopal walks from A to B and returns from B to A on a cycle, it takes him 46 minutes. When walking both ways, it takes him 75 minutes. If he rides the cycle both ways then what will be the total time (in minutes) taken by him?

(a) 19
(b) 17
(c) 23
(d) 15

Directions

Direction: The bar graph shown average marks scored in a 100 marks Geography exam by students of 7 divisions of Standard X. Study the diagram and answer the following questions.



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Q67. If all students of Division C got bonus 10 marks for winning the inter-school trophy their new average marks would increase by how much?

(a) 15%
(b) 25%
(c) 16.67%
(d) 20%

Q68. Average marks of division A were lesser than that of Division C by _____

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

Q69. What is the ratio of average marks scored by Division C to Division G?

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

Q70. Which division scored the second highest average marks?

(a) F
(b) B
(c) A
(d) C

Q71. The lengths of the two diagonals of a rhombus are 8 cm and 15 cm respectively. Find its area (in cm^2).

(a) 30
(b) 120
(c) 90
(d) 60

Q72. Find the area (in cm^2) of a semi-circle of radius 35 cm.

(a) 3850
(b) 960
(c) 1920
(d) 1925

Q73. Find the total surface area (in cm^2) of a right circular cone of diameter 14 cm and slant height 10 cm.

(a) 374
(b) 570
(c) 428
(d) 524

Q74. ΔDEF is right angled at E. If mangle D = 45°, then find the value of (tanF + 1/3).

(a) 4/3
(b) $3\sqrt{3}/2$
(c) $(\sqrt{2} + 1)/\sqrt{2}$
(d) $(3\sqrt{2} + 1)/3$

Q75. In ΔXYZ measure of angle Y is 90°. If cosecX = 17/15, and XY = 4cm, then what is the length (in cm) of side YZ?

(a) 7.5
(b) 8.5
(c) 5
(d) 6

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GENERAL AWARENESS

Q76. Which of the following is NOT included in general methodology while assessing the national income?

(a) Pension
(b) Investment Expenditure
(c) Value added
(d) Consumption Expenditure

Q77. In India, the Black Revolution is associated with self-dependence in the production of_____.

(a) Oil seeds production
(b) Crude petroleum
(c) Black box
(d) No option is correct

Q78. Hiuen Tsang visited Kanchipuram, the capital of Pallavas, during the reign which of the following rulers?

(a) Mahendra Verman I
(b) Mahendra Verman II
(c) Narasimha Varman I
(d) Parmeshwar Varman II

Q79. Which of the following movements E.V. Ramaswamy Naicker was associated with?

(a) Self-respect movement
(b) Viacom movement
(c) Justice movement
(d) Ezhava movement

Q80. World famous Kaieteur Falls is situated on which river?

(a) Potaro
(b) Mississippi
(c) St. Lawrence
(d) Zambezi

Q81. Which of the following is NOT correctly matched?

(a) Shivasamudram Falls - Kaveri
(b) Dhuandhar Falls - Narmada
(c) Sahastradhara Falls - Baldy
(d) Gerosoppa Falls - Kaveri

Q82. In which year did Vivekananda participate in the Parliament of the World's Religions?

(a) 1893 AD
(b) 1895 AD
(c) 1897 AD
(d) 1899 AD

Q83. What was the theme of the Global Entrepreneurship Summit, 2017 organised in Hyderabad?

(a) Development for All
(b) Women First, Prosperity for All
(c) Run for Development
(d) Women's World

Q84. Which of the following films won the best film award in the 48th International Film Festival of India (IFFI), organized from November 20 to 28, 2017 in Panji, Goa?

(a) 120 Beats per Minute
(b) Take Off
(c) Angels Wear White

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(d) Dark Skull

Q85. How much area of Bhutan is approximately covered with forest?

(a) 45%
(b) 61%
(c) 72%
(d) 84%

Q86. The atoms of the elements having same difference between mass number and atomic number are called _____.

(a) Isobar
(b) Isotopes
(c) Isotones
(d) No option is correct.

Q87. Heavy water is mostly used in which of the following?

(a) In fire extinguisher
(b) In nuclear reactors
(c) In washing cloth
(d) In both Nuclear reactors and Fire extinguisher

Q88. _____ prevents the Panchayat from doing wrong things like misusing money or favouring certain people.

(a) Gram Sabha
(b) District Collector
(c) Sarpanch
(d) Secretary

Q89. _____ is a particular area from which all the voters living there choose their representatives.

(a) Constituency
(b) Voting Area
(c) Election Area
(d) Legislative Area

Q90. Match the following.

	Organism	**Reproduction process**
I.	Leishmania	1. Bud formation
II.	Yeast	2. Fragmentation
III.	Spirogyra	3. Binary fission

(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

Q91. What is the shape of the two guard cells which enclose stomata?

(a) Oval
(b) Triangular
(c) Rectangular
(d) Kidney shaped

Q92. Under the ‘National Electric Mobility Mission Plan’, the government wants to see 6-7 million electric and hybrid vehicles on Indian roads from year _____ onwards.

(a) 2022
(b) 2020
(c) 2025

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(d) 2019

Q93. Which research laboratory has developed an Artificial Intelligent robot named Shelley that writes horror stories?

(a) IBM – Media research lab
(b) MIT – Media Lab
(c) Almaden's Visual Media
(d) Wal-mart Media Lab

Q94. On 9 November 2017, House Building Advance (HBA) rules were revised. Now, under the new rules, the central government employee can barrow a maximum of how much amount from government?

(a) Rs 50 lakh
(b) Rs 25 lakh
(c) Rs 75 lakh
(d) Rs 15 lakh

Q95. The Government of India has approved year 2018 as National year of which nutrient rich crop to boost its production?

(a) Millet
(b) Wheat
(c) Rice
(d) Maize

Q96. Find the acceleration (in m/s^2) of a body which accelerates from 10 m/s to 20 m/s in 4 seconds.

(a) 7.5
(b) 5
(c) 15
(d) 2.5

Q97. Propagation of sound can be visualised as propagation of _____ variations in the medium.

(a) Energy
(b) Power
(c) Force
(d) Pressure

Q98. During the night, the direction of the wind would be from the _____.

(a) Valleys to the mountains
(b) Mountains to the valleys
(c) Land to the ocean
(d) Ocean to the land

Q99. Which of the statements given below are correct?

A) Julio Granda won the Chess 2017 Women's World Chess Championship.
B) Australia hosted the Tennis 2017 Hopman Cup.
C) Max Verstappen won the Formula One 2017 Ma laysian Grand Prix.

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

Q100. In HTML, _____ attribute specifies a set of controls that are linked so that only one radio button among each set is selected at a time.

(a) TYPE = "TEXT"
(b) TYPE = "PASSWORD"
(c) TYPE = "RADIO"
(d) TYPE = "CHECK BOX"

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 1

The correct answer is 1- the error lies only in Part 1.

Key Points

It should be on every level instead of in.

A level is analogous to a floor of a building. And we say my office is on the third floor.

Option 1 is thus the correct answer.

The correct sentence: Evolutionary processes give rise to biodiversity on every level of biological organisation, including the level of species, individual organisms, and molecules.

Q2. Answer: (d) 4

The correct answer is 4- No Error.

Key Points

Note that had begun is not incorrect since it occurred before the action of 'continuation' and therefore, uses the past perfect tense.

Q3. Answer: (b) Sketch

The correct answer is Sketch.

Key Points

Sketch: to make a simple and quickly-made drawing of something

Additional Information

• Made: produced something, often using a particular substance or material

• Scatter: to (cause to) move far apart in different directions

• Built: made something by putting bricks or other materials together

Q4. Answer: (c) Deep

The correct answer is Deep.

Key Points

We are presenting a contrast through but. Even though life is short, it has a meaning quite opposing to short. Here, we will go with the contextual antonym. Something short is not generally deep as brevity is not generally associated with depth.

Deep: showing or needing serious thought, or not easy to understand

Thus, Option 3 - Deep is the most appropriate answer.

Additional Information

The meaning of the other words-

• Rare: (of an event, situation, or condition) not occurring very often

• Sharp: (of an object) having an edge or point that is able to cut or pierce something

• Blur: make or become unclear or less distinct.

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Thus, we can see that the correct word would be 'deep'.

Q5. Answer: (b) Lively

The correct answer is Lively.

Key Points

• Pert: energetic, enthusiastic, and confident

• Lively: full of energy and enthusiasm; interesting and exciting

Thus we can see that 'pert' and 'lively' are synonyms.

Additional Information

• Humble: not proud or not believing that you are important

• Meek: quiet, gentle, and not willing to argue or express your opinions in a forceful way

• Timid: shy and nervous; without much confidence; easily frightened

Important Points

Timid and Meek are synonyms or near-synonyms.

'Pert' is generally used as an adjective to qualify the nature of a young woman.

Q6. Answer: (b) Plentiful

The solution is in Hindi. Read it online.

Q7. Answer: (c) Mild

The solution is in Hindi. Read it online.

Q8. Answer: (b) Infamy

The correct answer is Infamy.

Key Points

• Rectitude: honesty and correct moral behaviour

• Infamy: the quality of being famous for something considered bad

Thus we can see that Rectitude and Infamy are antonyms or near-antonyms.

Additional Information

• Goodness: the personal quality of being morally good

• Honesty: the quality of being honest

• Character: the particular combination of qualities in a person or place that makes them different from others

Q9. Answer: (a) QPR

The correct answer is QPR.

Key Points

Elusive means difficult to find or catch. Now, what could be difficult to find?

• Clearly, out of P, Q, and R, Q starts with snow leopard which fits the description, so Q is the first part.

• Automatically options 2 and 4 are ruled out.

• A sentence can't end with of the international, so P can't be the last part.

• Hence Option 1) QPR is the correct answer.

The sentence: The elusive snow leopard has lost its endangered status in the Red List of the International Union for Conservation of Nature.

Q10. Answer: (a) She was given promotion happily by him.

The given sentence is in simple past tense. Thus, the passive voice will be was/were + past participle of give = given. Option 1) She was given promotion happily by him is the correct answer.

Q11. Answer: (b) Anuj said that he needed my help then.

Then => now during change of speech => rule out 3) and 4). You can't eliminate the information that these were the words said by Anuj => rule out 1). Option 2) Anuj said that he needed my help then is the correct answer.

Q12. Answer: (a) Hygiene

The correct answer is Hygiene.

Key Points

The correct spelling is Hygiene.

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• Hygiene: the degree to which people keep themselves or their environment clean, especially to prevent disease
• Eg. Poor standards of hygiene mean that the disease spreads fast.

Q13. Answer: (a) Automatically

The correct answer is Automatically.
Key Points
Automatically(adverb): independent, without human control
It is clear from the context that the blank needs an adverb. Among the options, only the word 'automatically' is an adverb.
Additional Information
Automatic(adjective): able to operate independently of human control
There is no such word as automatical
Automation(noun): the use of machines and computers that can operate without needing human control

Q14. Answer: (c) Appreciation

The correct answer is Appreciation.
Key Points
Appreciation(noun): the act of recognizing or understanding that something is valuable, important, or as described
From the context, it is clear that the blank needs a noun. Among the options, only the word 'appreciation' is a noun.
Additional Information
• Appreciate(verb): to recognize how good someone or something is and to value him, her, or it
• Appreciative(adjective): showing that you understand how good something is, or are grateful for something
• Appreciatively(adverb): in a way that shows you are grateful for something

Q15. Answer: (d) Of

The correct answer is Of.
Key Points
Of(preposition): expressing the relationship between a part and a whole.
Additional Information
For(preposition/conjunction): As a preposition, for is used to introduce a purpose or goal. As a conjunction, for means because.
From(preposition): indicating the point in space at which a journey, motion, or action starts
Off(adverb/preposition): away from the place in question; to or at a distance; moving away and often down from.

Q16. Answer: (c) Up

The correct answer is Up.
Key Points
End up: to reach or come to a place, condition, or situation that was not planned or expected
Hint
• In this question, we have to take into account the phrasal use of the prepositions.
• In this way, we can easily eliminate Upon, On and Above.

Q17. Answer: (d) And

The correct answer is And.
Key Points
And(conjunction): used to connect words of the same part of speech, clauses, or sentences, that are to be taken jointly.
Additional Information
• But(conjunction): used to introduce a phrase or clause contrasting with what has already been mentioned
• Nor(conjunction): used before the second or further of two or more alternatives (the first being introduced by a negative such as ‘neither’ or ‘not’) to indicate that they are each untrue or each do not happen
• Also(adverb): in addition; too

Q18. Answer: (c) Betray someone.

The correct answer is Betray someone.
Key Points
• Stab someone in the back: a betrayal of trust, an act of treachery

• For example: Don't trust George; he's been known to stab his friends in the back.

Q19. Answer: (a) Used to emphasize that one completely opposes something.

The correct answer is Used to emphasize that one completely opposes something.

Key Points

Over my dead body:

• in no way, under no circumstances
• willing to go to extreme lengths to stop something from happening
• an exaggerated way of saying, “Absolutely not”
• Eg. You think that I will give you the keys to my car? Over my dead body.

Q20. Answer: (a) Fallow

The correct answer is Fallow.

Key Points

Fallow: land not planted with crops, in order to improve the quality of the soil

• Eg. Farmers are eligible for government support if they let a certain amount of land lie fallow.

Additional Information

Let's look at the meaning of other given options-

• Urbane- The term "urbane" refers to someone who is sophisticated, polished, and suave in social situations
• Sophisticated- having or showing a lot of experience and knowledge about the world and about culture, art, literature, etc
• Genteel- The term "genteel" refers to having or displaying qualities associated with polite society, refinement, and good manners. It describes a person or their behavior as being well-bred, courteous, and socially respect

Q21. Answer: (c) Apathetic

The correct answer is Apathetic.

Key Points

Apathetic: showing no interest or energy and unwilling to take action, especially over something important

Additional Information

• Ardent: showing strong feelings
• Fervent: used to describe beliefs that are strongly and sincerely felt or people who have strong and sincere beliefs
• Melancholic: expressing feelings of sadness

Q22. Answer: (a) Have been

I takes have, not has. Rule out 4). 2) and 3) are grammatically incorrect phrases. Option 1) Have been is the correct answer.

Correct phrases in place of 2,3 = was being and have been.

Q23. Answer: (b) Returned

The correct answer is Returned.

Key Points

The first part of the sentence(the first clause) is in the simple past tense and to maintain uniformity and parallelism, the verb in the second clause must also be in the same tense as the actions are considered almost simultaneous.

The correct sentence: I closed the window just in time and returned to my room with relief.

Q24. Answer: (d) ABC

The correct answer is ABC.

Key Points

We use in order to with an infinitive form of a verb to express the purpose of something. Thus, it must be followed by a verb => Only A qualifies the criterion.

Option 4) ABC is the correct answer.

The sentence: In order to regulate technology and boost the rankings, we need our teachers to exponential thinking.

Q25. Answer: (c) Symptomatically

The correct answer is Symptomatically.

Key Points

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The correct spelling is symptomatically.

Symptomatically: By symptoms

Q26. Answer: (b) Hectare : Area

Here, the pattern is such that second word is the physical quantity and the first word is the unit of that physical quantity i.e.

Ohm : Resistance → Ohm is the unit of Resistance.

By checking all the options.

1) Temperature : Degree → Here temperature is not the unit of degree.

2) Hectare : Area → Hectare is the unit of Area.

3) Energy : Watt → Here Energy is not the unit of Watt.

4) Current : Ampere → Here Current is not the unit of Ampere.

Hence, the correct answer is "Hectare : Area".

Q27. Answer: (b) 29

Here pattern is as follows:

That 2^(nd) number is 7 more than the 1^(st) number i.e.

16 : 23 → 16 + 7 = 23.

Similarly,

22 : ? → 22 + 7 = 29.

Hence, the correct answer is "29".

Q28. Answer: (d) QXO

The pattern here is as follows,

Hence, the correct answer is "QXO".

Q29. Answer: (d) Necklace - Ornament

The logic here is as follows:

In all the pairs, the 1^(st) word is a category while the 2^(nd) word is the example of that category i.e.

1) Figure - Rectangle → Rectangle is an example of Figure.

2) Ornament - Ring → Ring is an example of Ornament.

3) Vehicle - Scooter → Scooter is an example of Vehicle.

4) Necklace - Ornament → Ornament is not an example of Necklace.

Hence, the correct answer is "Necklace - Ornament".

Q30. Answer: (d) 29 – 59

The logic here is as follows:

First number × 2 = Second number

1) 17 – 34 → 17 × 2 = 34

2) 37 – 74 → 37 × 2 = 74

3) 43 – 86 → 43 × 2 = 86

4) 29 – 59 → 29 × 2 = 58

But in 29 – 59 → 29 × 2 = 58 which is not equal to 59.

Hence, the correct answer is "29 – 59".

Q31. Answer: (c) ZSK

The logic here is as follows:

There's a pattern of –8 between two consecutive characters as shown below:

Hence, the correct answer is "ZSK".

Q32. Answer: (b) 45321

The dictionary sequence is:

4) Phony

5) Pick

3) Pierce

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2) Pigment

1) Pinnacle.

Hence, the correct answer is "45321".

Q33. Answer: (b) 134

The relation between the numbers is as follows,

13 + 19 = 32

19 + 32 = 51

32 + 51 = 83

51 + 83 = 134

Hence, the correct answer is "134".

Q34. Answer: (d) SBW

The pattern is as follows,

Hence, the correct answer is "SBW".

Q35. Answer: (b) Suraj

The following arrangement is as follows:

Suraj is shorter than Gopal but taller than Tarun.

Gopal > Suraj > Tarun

Rajan is the tallest and Shivam is shorter than Suraj but not the shortest

Rajan > Gopal > Suraj > Shivam >Tarun.

So, Suraj is the third shortest.

Hence, the correct answer is "Suraj".

Q36. Answer: (a) Vote

Let’s check each option,

1) VOTE → cannot be formed because there is no ‘T’ in ENDEAVORS.

2) ROSE → can be formed as ENDEAVORS.

3) END → can be formed as ENDEAVORS.

4) DONE → can be formed as ENDEAVORS.

So, VOTE can’t be formed from word ENDEAVORS.

Hence, the correct answer is "VOTE".

Q37. Answer: (c) 45810

The pattern here is each letter of the given words are coded as a particular number as shown below:

Hence the required conversion is,

Hence, the correct is "45810".

Q38. Answer: (d) 14

The given equation is:

7 - 8 + 20 x 10 ÷ 9 = ?

Here '-' represents '+', '+' represents 'x', 'x' represents '÷' and '÷' represents '-'.

•	•
•	x
x	÷
÷	•

So let’s replace the sign in the above equation.

7 - 8 + 20 x 10 ÷ 9 → 7 + 8 x 20 ÷ 10 - 9

So, now solving the equation according to bodmas rule

7 + 8 x 20 ÷ 10 - 9

7 + 8 x 2 - 9
7 + 16 - 9
23 - 9
= 14
Hence, the correct answer is "14".

Q39. Answer: (d) ÷ and ×

The given equation is: 16 × 4 - 10 + 2 ÷ 12 = 18
Let's check each option by solving using bodmas rule,
1) (× and -) →
16 - 4 × 10 + 2 ÷ 12 =18
16 - 4 × 10 + 0.167 = 18
16 + 0.167 - 40 = 18
16.167 - 40 = 18
-23.83 ≠ 18
2) (÷ and -) →
16 × 4 ÷ 10 + 2 - 12 = 18
16 × 0.4 + 2 - 12 = 18
6.4 + 2 - 12 = 18
8.4 - 12 = 18
• 3.6 ≠ 18
3) (- and +) →
16 × 4 + 10 - 2 ÷ 12 = 18
16 × 4 + 10 - 0.167 = 18
64 + 10 - 0.167 = 18
74 - 0.167 = 18
73.84 ≠ 18
4) (÷ and ×) →
16 ÷ 4 - 10 + 2 × 12 = 18
4 - 10 + 2 × 12 = 18
4 + 24 - 10 = 18
28 - 10 = 18
18 = 18
So, by interchanging (÷ and ×) the equation will be correct.
Hence, the correct answer is "(÷ and ×)".

Q40. Answer: (d) 160

The pattern here is as follows,
Two numbers are given separated by '!'. We get the answer by adding the two numbers and multiplying it by 10 to get the answer.
Let A and B are two numbers such that A!B then
A!B = (A + B) × 10 i.e.
4!4 = (4 + 4) × 10 = 80
3!8 = (3 + 8) × 10 = 110
6!2 = (6 + 2) × 10 = 80
Similarly,
7!9 = (7 + 9) × 10 = 160.
Hence, the correct is "160".

Q41. Answer: (d) CBABABAD

The pattern here is the letter 'C' and 'D'are two letters between the continuous series of 'AB'. If D is after C (i.e. BCD)then in the ne×t step D will replace the one which was before C (i.e. DCB) and if they are in the left most corner the one which is after will replace the letter which is in the right most corner as shown below:
ABABCDAB, ABADCBAB, ABCDABAB, ADCBABAB, CDABABAB,CBABABAD

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Hence, the correct answer is "CBABABAD".

Q42. Answer: (a) 4.5 km North

Given:-

1) The route of the race goes 4.5 km West from the starting point.

2) It then turns North and goes 3 km.

3) Then turns East and goes 4.5 km.

4) Finally it turns left and goes 1.5 km to reach the end point.

5) The distance and direction of the end point with respect to the start point.

As can be seen clearly that the end point is 4.5 km away and is in North direction with respect to the starting point.

Hence, the correct answer is "4.5 km North".

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

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

Conclusions:

I. All tapes are strips→ Doesn't follow (As it is given that some ribbons are tapes so, it is possible but not definite that all tapes are strips.)

II. No strips are tapes → Doesn't follow (As no direct relation is given between strips and tapes so, it is not definite that No strips are tapes.)

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

Q44. Answer: (c) C

Given:-

Rectangle represents Hairstylists ; Circle represents Choreographers ; Triangle represents Mountain climbers and Square represents Gymnasts.

Letters in Rectangle that represents hairstylists are → A B C D E F

Letters in Circle that represents Choreographers are → I H

Letters in Triangle that represents Mountain Climbers are → B C D

Letters in Square that represents Gymnasts are → C F G H

It can be seen that the common letter representing Gymnasts who are both Hairstylists as well as Mountain climbers is → C (present at the intersection point of square, rectangle and triangle.

Hence, the correct answer is "C".

Q45. Answer: (a) CJT

The pattern followed here is:-

As can be seen clearly that the next number in the series is CJT.

Hence, the correct answer is "CJT".

Q46. Answer: (a) 34

The pattern followed here is:-

Hence, the correct answer is "34".

Q47. Answer: (d) (22, 106, 63)

The logic followed here is:-

(First term × 5) + 1 → Second number

First number × 3 → Third number

In (7, 36, 21)

[7, {(7 × 5) + 1}, {7 × 3}]

[7, {35 + 1}, 21] → (7, 36, 21)

In (9, 46, 27)

[9, {(9 × 5) + 1}, {9 × 3}]

[9, {45 + 1}, 27]) → (9, 46, 27)

In (11, 56, 33)

[11, {(11 × 5) + 1}, {11 × 3}]

[11, {55 + 1}, 33]) → (11, 56, 33)

In (22, 106, 63)

[22, {(22 × 5) + 1}, {22 × 3}]

[22, {110 + 1}, 66]) → (22, 111, 66) not (22, 106, 63)

Hence, the correct answer is "(22, 106, 63)".

Q48. Answer: (d) [figure]

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

Hence, the correct answer is "Option 4".

Additional Information

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

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

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

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

Q49. Answer: (d) [figure]

Here, the opposite faces of the cube are:-

1)

<=>

(i.e. dot is present on the face opposite to circle)

2)

<=>

(i.e. star is present on the face opposite to square)

3)

<=>

(i.e. circle enclosing the square is present on the face opposite to addition symbol)

Now, checking option one by one:-

1) Cube shown in option figure 1 can be formed as no opposite faces are present together.

2) Cube shown in option figure 2 can be formed as no opposite faces are present together.

3) Cube shown in option figure 3 can be formed as no opposite faces are present together.

4) Cube shown in option figure 4 of the cannot be formed as the opposite faces

and

are shown adjacent to each other which is not possible.

Hence, the correct answer is "Option 4".

Q50. Answer: (d) 14,41,76,12

The pattern followed here is:-

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

Checking options one by one to identify the set for the word 'MAZE'

1) 22 → H ; 97 → T ; 43 → J ; 66 → W (so, the letter cluster formed is HTJW)

2) 24 → L ; 76 → Z ; 12 → E ; 66 → W (so, the letter cluster formed is LZEW)

3) 31 → J ; 76 → Z ; 11 → G ; 58 → V (so, the letter cluster formed is JZGV)

4) 14 → M ; 41 → A ; 76 → Z ; 12 → E (so, the word formed is 'MAZE')

Hence, the correct answer is "14, 41, 76, 12".

Q51. Answer: (d) 94.5

Calculation:

Sum of n natural numbers = n(n + 1)/2

The sum of the first 20 multiples of 9

=> 9(1 + 2 + 3 +…+ 20)

=> 9 × 20 × 21/2

=> 1890

Average of first 20 multiples of 9

=> 1890/20

=> 94.5

Therefore The answer is 94.5.

Q52. Answer: (c) • 12/7

Follow BODMAS rule to solve this question, as per the order given below,

Step-1: Parts of an equation enclosed in 'Brackets' must be solved first, and in the bracket,

Step-2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step-3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step-4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated

Calculation:

(7| 2 - 6 | - 4| 5 | ÷ 5)/(- 7(2) - 2 × 2 ÷ 2 + 2)

=> (7× 4 - 20 ÷ 5)/(- 14 - 2 × 1 + 2) = (28 - 4)/(- 14 - 2 + 2) = - 24/14 = - 12/7

Q53. Answer: (c) 16

As we know, $(a^3 + b^3 + c^3 – 3abc) = (a + b + c)(a^2 + b^2 + c^2 – ab – bc – ca)$

Given, $a^2 + b^2 + c^2 = ab + bc + ca + 4$

=> $a^2 + b^2 + c^2 – ab – bc – ca = 4$

Therefore $(a^3 + b^3 + c^3 – 3abc) = 4 × 4 = 16$

Q54. Answer: (c) 50

x – intercept is the point at which the line crosses the x – axis, i.e. y = 0

Putting y = 0 in the equation,

=> 18x + 25(0) – 900 = 0

=> 18x = 900

=> x = 900/18 = 50

Therefore x – intercept is 50

Q55. Answer: (a) 530.66

The given circles can be drawn as shown below

Let P be the intersection point of AB and OO'

AP = AB/2 = 10/2 = 5 cm

OP = OO'/2 = 24/2 = 12 cm

Considering ΔAOP,

$AO^2 = OP^2 + AP^2$

=> $AO^2 = 144 + 25 = 169$

=> Radius of circle = AO = √169 = 13 cm

Therefore Area of circle = $\pi r^2 = 3.14 × 13 × 13 = 530.66$ cm²

Q56. Answer: (d) 4

Let AB be the diameter of the circle with centre O and CD be the chord in the circle, as shown below

OC = OD = OA = OB = radius of circle = 10/2 = 5 cm

OE = Distance between chords and the centre of the circle

Perpendicular drawn from the center of the circle bisects the chord; radius always bisects the chord if perpendicular.

CE = CD/2 = 6/2 = 3 cm

Considering ΔOCE,

$OE^2 = OC^2 – CE^2$

=> $OE^2 = 25 – 9 = 16$

Therefore Distance between chord and centre = OE = √16 = 4 cm

Q57. Answer: (b) 120

Given, 60% of P = 50% of Q

But, Q = x% of P

=> 60% of P = 50% of x% of P

=> 60/100 × P = 50/100 × x/100 × P

=> x = 60 × 2

Therefore x = 120

Q58. Answer: (a) 10000

Part of profit received by Z = 1 – (1/4 + 1/5) = 1 – 9/20 = 11/20

=> 11/20 of Total profit = 22000

=> Total profit = 22000 × 20/11 = Rs. 40000

Therefore Profit received by X = 1/4 × 40000 = Rs. 10000

Q59. Answer: (a) 33500

P's total investment = 50000 × 4 + (50000 – 20000) × 8 = 440000

Q's total investment = 40000 × 6 + (40000 + 70000) × 6 = 900000

Ratio of their profit = ratio of their investments = 440000 : 900000 = 22 : 45

Sum of ratios = 22 + 45 = 67

P's share = (22/67) × Total profit = 11000

Therefore Total profit = 11000 × (67/22) = Rs. 33500

Q60. Answer: (b) 5

Weight of 25 candles = 25 × 40 = 1000 grams

Let 'x' candles of 50 grams each were removed

Weight of remaining (25 – x) candles = (25 – x) × 37.5

=> 1000 – 50x = (25 – x) × 37.5

=> 1000 – 50x = 937.5 – 37.5x

=> 50x – 37.5x = 1000 – 937.5

=> 12.5x = 62.5

=> x = 62.5/12.5 = 5

Therefore 5 candles of 50 grams each were removed.

Q61. Answer: (c) 4500

Let the sum be Rs. P

Simple interest = (Principal × Rate × Time) /100

=> 270 = (P × 8 × 9/12) /100

=> P = (270 × 12 × 100) / (8 × 9) = Rs. 4500

Therefore The sum is Rs. 4500

Q62. Answer: (d) 3075

Because Cost price + Profit = Selling price

=> Profit = Selling price – Cost price = Rs. 575

=> 23% of Cost price = 575

=> Cost price = 575/0.23 = Rs. 2500

Therefore Selling price = 2500 + 575 = Rs. 3075

Q63. Answer: (c) 4% loss

Let the cost price be Rs. 'x'

Marked price = (100 + 20)% of x = 1.2x

Discount price = 20% of Marked price = 0.2 × 1.2x = 0.24x

Selling price = Marked price – Discount price = 1.2x – 0.24x = 0.96x

Because Selling price is less than the cost price, there is a loss

Loss % = [(x – 0.96x)/x] × 100 = 4%

Therefore There is a loss of 4%

Q64. Answer: (a) 1

Let the number to be added by 'x'

In order to make a perfect square of 5785, we can write,

=> $(5785)^2 = 5786 \times 5784 + x$

=> $(5785)^2 = (5785 + 1) \times (5785 – 1) + x$

=> $(5785)^2 = (5785)^2 – 1 + x$ [Because $(a + b)(a – b) = a^2 – b^2$]

=> $x = 1$

Therefore The least number to added is 1

Q65. Answer: (b) 10

20 boys' 25 days' work = 1/4

=> 20 boys' 1 day work = 1/4 × 1/25 = 1/100

=> 1 boy 1 day work = 1/20 × 1/100 = 1/2000

=> 1 boy 50 days' work = 50 × 1/2000 = 1/40

=> Remaining work = 1 – 1/4 = 3/4

=> No. of boys required to do remaining work in 50 days = (3/4) / (1/40) = 30

Therefore No. of more boys required = 30 – 20 = 10

Q66. Answer: (b) 17

Time taken in walking from both sides = 75 min.

Time taken in walking from one side = 75/2 = 37.5 min.

Time taken in walking from one side + cycling from one side = 46 min

Time taken in cycling from one side = 46 – 37.5 = 8.5 min.

Therefore Time taken in cycling from both sides = 2(8.5) = 17 min.

Q67. Answer: (d) 20%

Average marks scored by division C = 50

If average marks increased by 10,

Therefore Percentage increase = (10/50) × 100 = 20%

Q68. Answer: (d) 50%

Average marked scored by division A = 25

Average marks scored by division C = 50

Therefore Average marks of division A were lesser than that of Division C by = [(50 – 25)/50] × 100 = 50%

Q69. Answer: (b) 5 : 3

Average marked scored by division C = 50

Average marks scored by division G = 30

Therefore Required ratio = 50 : 30 = 5 : 3

Q70. Answer: (d) C

Given:

Division	Average Marks
A	25
B	30
C	50
D	40
E	60
F	45
G	30

Calculation:

Highest average marks are scored by division E (i.e 60)

The second highest marks are scored by division C (i.e. 50)

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Q71. Answer: (d) 60

Area of rhombus = 1/2 × product of diagonals

Therefore Area of given rhombus = (8 × 15)/2 = 60 cm²

Q72. Answer: (d) 1925

Given:

Radius = 35 cm

Formula used:

Area of semi-circle with radius 'r' = πr2/2

Calculation:

Area of given semi-circle = (22/7) × (35 × 35)/2 = 1925 cm2

Therefore Area of given semi-circle is 1925 cm²

Q73. Answer: (a) 374

For a right circular cone with radius of 'r' units and slant height of 'l' units,

Total surface area = πr(l + r)

Radius of given cone = 14/2 = 7 cm

Therefore Total surface area = (22/7) × 7 × (10 + 7) = 374 cm²

Q74. Answer: (a) 4/3

Given:

ΔDEF is right angled traingle.

angle D = 45°

Concept used:

Sum of angles of a triangle = 180°

Calculation:

=> angle D + angle E + angle F = 180°

=> 45° + 90° + angle F = 180°

=> angle F = 180° – 135° = 45°

(tan F + 1/3)

=> tan 45° + 1/3

=> 1 + 1/3

=> 4/3

Therefore The required value of (tan F + 1/3) is 4/3.

Q75. Answer: (a) 7.5

In ΔXYZ shown below,

cosec X = hypotenuse/opposite = XZ/YZ = 17/15

Let XZ be 17x and YZ be 15x

Given, XY = 4 cm

Using Pythagoras theorem,

$XZ^2 = XY^2 + YZ^2$

$=> (XY)^2 = (XZ)^2 - (YZ)2$

$=> (XY)2 = (17x)^2 - (15x)^2$

$=> (XY)2 = 64x^2$

=> XY = 8x

=> 8x = 4

=> x = 1/2

=> YZ = 15 × 1/2

Therefore YZ is 7.5 cm

Q76. Answer: (a) Pension

The correct answer is Pension.

Key PointsAssessment of National Income in India does not include pensions as there are three methods to assess it:

• It is straightway the national output that is evaluated.

• It is the income accruing from the production and sale of goods and services which is accounted for.

• It is the expenditure on these goods and services which is estimated.

Hence, pension is not included in the general methodology while assessing the national income.

Q77. Answer: (b) Crude petroleum

The correct answer is Crude Petroleum.

Key Points

• Black Revolution:

• To increase petroleum production, the Government planned to accelerate the production of ethanol and to mix it up with petrol to produce biodiesel.

• Ethanol is a renewable source of energy and is a by-product of sugar production produced from molasses.

• The blending of ethanol with petrol has been practised in the USA and Brazil for over 70 years.

• The blending of ethanol with transport fuels would provide better returns to farmers, supplement scarce resources of hydrocarbons and environment-friendly by reducing pollutants as it helps combustion.

Additional Information

• Colour revolutions:

Colour	Revolution
Black	Petroleum
Blue	Fish
Brown	Leather/Cocoa
Golden	Horticulture/Honey

Q78. Answer: (c) Narasimha Varman I

The correct answer is Narasimha Varman I.

Key Points

• Hiuen Tsang visited Kanchipuram, the capital of Pallavas, during the reign of Narasimha Varman I.

• Narsimha Verman I was the most famous ruler of the Pallva Dynasty.

• He succeeded Mahendra Verman who was defeated by Pulkesin II.

Additional Information

• Mahendra Verman

• Mahendravarman was a Pallava king who ruled the Southern portion of the present-day Andhra region and Northern regions of what forms present-day Tamil Nadu in India.

• He was initially a patron of Jainism but he converted to the Saiva faith under the influence of the Saiva saint Appar.

• He was the son of Simhavishnu, who defeated the Kalabhras and re-established the Pallava kingdom.

• Mahendravarma was succeeded to the throne by his more famous son Narasimhavarman in 630 CE.

Q79. Answer: (a) Self-respect movement

The correct answer is Self-respect movement.

Key Points

• Erode Venkatappa Ramasamy was an Indian social activist, and politician who started the Self-Respect Movement.

• Self-respect movement was the movement to restore respect and honour for the backward classes.

• This movement was started against Brahmanism in 1921 by S. Ramanathan who called upon E.V. Ramasamy Naicker who was also called Periyar in Tamil Nadu.

Additional Information

• Justice Movement

• The Justice Party was a political party in the Madras Presidency of British India.

• It was established on 20 November 1916 in Victoria Public Hallin Madras by Dr C. Natesa Mudaliar and co-founded by T. M. Nair, P. Theagaraya Chetty and Alamelu Mangai Thayarammal as a result of a series of non-Brahmin conferences and meetings in the presidency.

• Ezhava Movement

• Shri Narayana Guru, a guru from the Ezhava caste in present-day Kerala proclaimed the ideals of unity for his people.
• He argued against treating people unequally on the basis of caste differences.
• According to him, all humankind belonged to the same caste.
• "Oru jati, oru matam, oru daivam manushyanu" (One caste, one religion, one god for humankind) is one of his famous statements.
• The Sri Narayana Dharma Paripalana (SNDP) movement, among the Ezhavas of Kerala, is an example of a conflict between the depressed classes and the upper non-Brahmana castes.
• The Ezhavas were a caste of toddy tappers in Kerala. They were like the Nadars of Tamil Nadu and the Idigas of Karnataka.

Q80. Answer: (a) Potaro

The correct answer is Potaro.

Key Points

• The largest single-drop waterfall is found at Kaieteur.
• It is situated in Kaieteur National Park beside the Potaro River.
• It is located in a portion of the Guyanan Potaro-Siparuni region, which is part of the Amazon rainforest.
• When measured from its descent over a sandstone and conglomerate cliff to the first break, it is 226 meters high.
• The falls were rediscovered by Europeans in 1870 by a group headed by British geologist Charles Barrington Brown.

Additional Information

• Mississippi:
• On the Mississippi River, Saint Anthony Falls is the only significant natural waterfall.
• St. Lawrence:
• On the St. Lawrence River, Montmorency Falls plunge 83 meters into a bowl-shaped basin.
• Zambezi:
• Southern Africa's Victoria Falls, a cascade on the Zambezi River, is home to a number of rare plant and animal species.

Q81. Answer: (d) Gerosoppa Falls - Kaveri

The correct answer is Gerosoppa Falls - Kaveri.

Key Points

• Jog Falls, Gerosoppa Falls, or Jogada Gundi Falls, situated in Sagara taluk in Karnataka, is India's second-highest plunge waterfall (after the Nohkalikai Falls).
• It is situated on the boundary between the Shimoga and Uttara Kannada districts.
• Gerosoppa Falls, formed by the Sharavati River dropping from a height of 253 meters, is a massive waterfall 30 km downstream (829 ft) with an elevation of 488 meters.
• Gerosoppa Falls is India's highest untiered waterfall i.e. it drops directly and does not stream onto rocks.

Additional Information

Falls	Rivers	States
Shivasamudram Falls	Kaveri river	Karnataka
Dhuandhar Falls	Narmada river	Madhya Pradesh
Sahatradhara falls	Baldy river	Uttrakhand
Gerosoppa Falls(Jog falls)	Sharavathi River	Karnataka

Q82. Answer: (a) 1893 AD

The correct answer is 1893 AD.

Key Points

• Swami Vivekananda participated in the 1893 World's Religion Conference which was held in Chicago, USA.
• There he gave a path-breaking speech which was applauded around the world.
• Swami Vivekananda represented Hinduism at the World's religions parliament.

Additional Information

• Swami Vivekananda was born on 12th January 1863.
• His birthday is celebrated as National youth day in India.
• Narendranath Datta is the original name of Swami Vivekananda.

• He is considered the patriotic saint of India.
• "Go back to Gita" is a famous slogan raised by Swami Vivekananda.
• Ramakrishna Mission was founded by Swami Vivekananda in 1897.
• The headquarters of Ramakrishna Mission is located at Belur Math in West Bengal.
• "Atmano mokshartham Jagat Hitaya cha" is the motto of Ramakrishna Mission.
• Swami Vivekananda died on 4th July 1902 at the age of 39.

Q83. Answer: (b) Women First, Prosperity for All

The correct answer is Women First, Prosperity for All

Key Points

• Global Entrepreneurship Summit is an annual entrepreneurship gathering that witnesses emerging entrepreneurs, investors, and supporters from different fields around the world.
• It was organized in Hyderabad to highlight the issue of women's empowerment on the world-class platform.
• The theme of the Global Entrepreneurship Summit, 2017 organized in Hyderabad was ‘Women First, Prosperity for All’.

Q84. Answer: (a) 120 Beats per Minute

The correct answer is 120 Beats per Minute

Key Points

• 120 Beats per Minute won the best film award in the 48th International Film Festival of India (IFFI), organized from November 20 to 28, 2017 in Panaji, Goa.
• It is a drama film directed by Robin Campillo.
• This film is about homosexuality and AIDS.

Q85. Answer: (c) 72%

The correct answer is 72%.

Key Points

• 72% of Bhutan is approximately covered with forest.
• Bhutan is a Himalayan Country located in Asia with Thimpu as its capital.
• Bhutan is one of the greenest countries in the world.

Important Points

• Bhutan:
• The national tree is Bhutan Cypress.
• The official language of Bhutan is Dzongkha.
• The capital of Bhutan is Thimphu.
• The national animal is Takin (cattle chamois or gnu goat)
• The national bird is Common Raven
• The national flower is the Blue poppy.
• The national sport is Archery.

Q86. Answer: (c) Isotones

The correct answer is Isotones.

Explanation:

Isotones:

• The atoms of the elements having the same difference between mass number and atomic number are called Isotones.
• Isotones are nucleoid which has different proton number and the same number of neutrons.
• For example, boron-12 and carbon-13 nuclei both contain 7 neutrons

Isobar:

• Isobars are those elements which have different atomic numbers but the same atomic mass.
• Their chemical property is different because there is a difference in the number of electrons.
• Example of two Isobars is Iron and Nickel.
• Both have the same mass number which is 58 whereas the atomic number of Iron is 26, and the atomic number of Nickel is 28.

Isotopes:

• They are variants of a particular chemical element.

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• While all isotopes of a given element share the same number of protons and electrons, each isotope differs from the others in its number of neutrons.

• For example, Carbon-12, Carbon-13 and Carbon-14 are three isotopes of the element carbon with mass numbers 12, 13 and 14 respectively.

Q87. Answer: (b) In nuclear reactors

The Correct answer is In nuclear reactors.

Explanation:

Heavy Water:

• Deuterium oxide, D2O.

• It is an oxide of the isotope of hydrogen, Deuterium.

• It is a colourless and odourless liquid.

• A molecule of heavy water has two deuterium atoms in place of the two normal hydrogen atoms of ordinary "light" water.

• The presence of deuterium gives the water different nuclear properties, and the increase in mass gives it slightly different physical and chemical properties when compared to normal water.

• Heavy water is not radioactive.

• Heavy water is not safe to drink.

• American scientist and Nobel laureate Harold Urey discovered the isotope deuterium in 1931.

• Argentina is the main producer of heavy water.

• Heavy water is used in certain types of nuclear reactors, where it acts as a neutron moderator to slow down neutrons so that they are more likely to react with the fissile uranium-235 than with uranium-238.

• Heavy water acts as a moderator when it is used in nuclear reactors.

• Moderators are used to containing the velocity of neutrons used in the nuclear reactions so that they do not react with Uranium-238.

Q88. Answer: (a) Gram Sabha

The correct answer is Gram Sabha.

Key Points

• The Gram Sabha prevents the Panchayat from doing wrong things which may include misusing money or favouring certain people.

• It keeps an eye on the elected representatives and in making them responsible to the persons who elected them.

• According to the Constitution, Gram Sabha carries out any duties and wields any authority granted by a State's legislature at the local level. To aid in the Panchayat's development plans and programmes' implementation.

Additional Information

• Secretary of Gram Panchayat

• In India, there is a Panchayat Secretary for each village.

• The Gram Sabha will be in charge of the Secretary, and he will carry out any tasks that are given to him by the Gram Sabha. All obligations imposed by the Panchayat Raj Act are the responsibility of the Gram Panchayat Secretary.

• Sarpanch

• The Gram Panchayat is made up of the Ward Panch and the Sarpanch.

• A Sarpanch, who serves as the Panchayat President, is further chosen by all of the Gram Sabha members.

• Five years are up for election for the Gram Panchayat.

• The Secretary of the Gram Sabha also serves as the Secretary of the Gram Panchayat.

• District Collector

• The District Collector is the district's highest-ranking revenue official.

• The district collector is a member of the Indian Administrative Service (IAS).

• District collector bears the responsibility of administering a district.

• The district collector is responsible for maintaining peace and order in the district, as well as issuing orders to prevent disorder and unrest.

• The main functions of the District Collector are:

• Supervise general administration.

• Collect land revenue.

• Maintain law and order in the district.

• Maintenance of land records.

• Providing relief work in case of emergencies like floods and famine.
• Supervision of the working of the Panchayati Raj System.

Q89. Answer: (a) Constituency

The correct answer is Constituency.

Key Points

• It is a delimited area in a specific region. It is delimited by the Election Commission of India. Members of Parliament represent a particular constituency in India.
• Currently, there are 543 constituencies in India.

Q90. Answer: (c) I – 3, II – 1, III – 2

Yeast	**Yeast is a single-cell organism that is classified under the fungus kingdom. They reproduce through Bud formation**
Spirogyra	It is green algae which are also called White Silk. They reproduce through Fragmentation.
Leishmania	It is a genus of trypanosomes that are responsible for the disease called Leishmaniasis. They reproduce through Binary Fission.

Q91. Answer: (d) Kidney shaped

The correct answer is Kidney shaped.

Explanation:

Stomata

• Stomata are the small openings found on the leaf epidermis.
• It can be found on stems and other plant parts.
• It can be seen beneath the light microscope.
• Stomata structure:
• Two guard cells surround each stoma.
• The kidney-shaped guards contain chloroplasts.
• In the stoma, there is a respiratory chamber.
• Guard cells are the cells in the epidermis of leaves which control gas exchange in plants.
• These are useful in the water retention of plants when they are in need of water and are kidney-shaped cells.

Q92. Answer: (b) 2020

The correct answer is 2020.

Key Points

• The government wants to see 6-7 million electric and hybrid vehicles on Indian roads from 2020 onwards under the ‘National Electric Mobility Mission Plan’.
• This plan was launched to gain electric mobility by promoting electric and hybrid vehicles in the country. It was launched in 2013.

Q93. Answer: (b) MIT – Media Lab

The correct answer is MIT- Media Lab

Key Points

• Shelley, the first horror writer in the field of Artificial Intelligence, was developed by MIT researchers.
• It learns by feeding on data and then processed into horror stories.

Q94. Answer: (b) Rs 25 lakh

The correct answer is Rs 25 lakh.

Key Points

According to the latest Housing Building Rules, an employee of the Government can borrow a maximum of 25 lacks to buy or build a house with 34 months of basic pay. B=HBA rules are decided by the Ministry of Housing and Urban Affairs.

Q95. Answer: (a) Millet

The correct answer is Millets

Key Points

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• The Government of India has the approved year 2018 as the National year of Millet.
• Millet is a term to categorize the small grasses used to feed animals and people.
• Millets are high in fiber and gluten-free which are a good choice for the consumption of a healthy diet.

Q96. Answer: (d) 2.5

The correct answer is 2.5.

Calculation:

To find the acceleration of a moving body:

Here u=initial velocity; v = final velocity

Formula: v - u/t

Final velocity - initial velocity/ time

20 - 10/4 = 10/4 = 2.5 m/s2

Q97. Answer: (d) Pressure

The Correct answer is Pressure.

Explanation:

• Compression: Compression is a region in a longitudinal wave where the particles are closest together.
• Compression has high density and high pressure
• Rarefaction: A rarefaction is a region in a longitudinal wave where the particles are furthest apart.
• Rarefaction has a low density and low pressure
• The propagation of sound can be visualised as the propagation of pressure variations in the medium.
• Sound can propagate through solids, liquids and gases. Sound is a sequence of waves which pressurized through compressible media like air or water.

Q98. Answer: (c) Land to the ocean

• Land breeze is a physical phenomenon which is local in nature as it depends upon the heating of the earth and seawater.
• During night times, when land is being cooled as it loses its heat more easily than seawater then wind direction gets reversed from land to sea.

Note:

• Sea Breeze:
• During the day the land heats up faster and becomes warmer than the sea.
• Therefore, over the land, the air rises giving rise to a low-pressure area, whereas the sea is relatively cool and the pressure over sea is relatively high.
• Thus, pressure gradient from sea to land is created and the wind blows from the sea to the land as the sea breeze.
• Land Breeze:
• In the night the reversal of condition takes place.
• The land loses heat faster and is cooler than the sea.
• The pressure gradient is from the land to the sea and hence land breeze results.

Q99. Answer: (c) Both B and C

The correct answer is Both B and C

Key Points

• Only B and C statements are correct as World Women's Chess Championship was won by Anna Muzychuk in 2017.
• Anna Muzychuk is from Ukraine.

Important Points

• Hopman Cup
• The Hopman Cup is an annual international team indoor tennis tournament held in Perth, Western Australia in early January every year.
• It was founded in 1989.
• FIDE
• The International Chess Federation (FIDE) is the governing body of the chess sport, regulating all international competitions.
• Constituted as a non-governmental institution, it was recognized by the International Olympic Committee as a Global Sporting Organization in 1999.
• FIDE currently has its headquarters in Lausanne, Switzerland.

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Q100. Answer: (c) TYPE = "RADIO"

The correct answer is TYPE = "RADIO".

Key Points

• Radio buttons are used to select one item at one time from a related group of elements in HTML language.

• There are listed elements from which a user is supposed to choose one of them.

Important Points HTML

• HTML is short for "HyperText Markup Language".

• It simply means it is a language for describing web pages using ordinary text.

• HTML is not a complex programming language.

• Tim Berners-Lee developed this in 1990.

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