SSC CHSL Previous Paper 38 (Held On: 21 March 2018 Shift 1) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, some parts 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'.

I look up (1)/ after the blast (2)/ of light had enveloped the park. (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'.

According to the Copernican principle, the Earth does not (1)/ occupy a unique position in the Universe while (2)/ implies life on other planets can be a possibility. (3)/ No error (4)

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

Q3. In the following question, the sentence with the 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.

The _____ age movies are quite popular.

(a) come of
(b) long
(c) coming of
(d) over

Q4. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The love which is based on physical beauty is not _____.

(a) imminent
(b) deponent
(c) remnant
(d) permanent

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

Mollify

(a) Pacify
(b) Agitate
(c) Provoke

(d) Worry

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

Importune

(a) Appeal
(b) Important
(c) Imply
(d) Purchase

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

Rotund

(a) Fat
(b) Broad
(c) Dumpy
(d) Slim

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

Flamboyant

(a) Glamorous
(b) Modest
(c) Colorful
(d) Sporty

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

Bringing equity

P: for the rural population should be

Q: a priority for the National Health Mission

R: in access to the doctors and medicines

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

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.

The cat caught a rat.

(a) A rat has been caught by the cat.
(b) A rat was caught by the cat.
(c) A rat is caught by the cat.
(d) A rat had been caught by the cat.

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.

The wolf cried out to the hound, “A thought has just come into my head.”

(a) The wolf cried out that a thought had just came into his head.
(b) The wolf cried out to the hound that a thought had just come into his head.
(c) The wolf cried out about a thought into his head to the hound.
(d) The wolf told hound about a thought into his head.

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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) Caetegory
(b) Category
(c) Cateigory
(d) Categoury

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.

Let us examine the facts in the case more _____. First of all, language is no more _____ a medium; it is like air to the creatures of the land or water to fishes. If it is perfectly clear and pure, we do not notice it any more than we notice pure air when the sun is shining ____ a clear sky, or the taste of pure cool water when we drink a glass _____ a hot day. Unless the sun is shining, there is no brightness; unless the water is cool, there is _____ refreshment.

Q13. in the case more _____. First of all

(a) closely
(b) close
(c) closed
(d) closeness

Q14. no more _____ a medium;

(a) then
(b) so
(c) such
(d) than

Q15. sun is shining _____ a clear sky,

(a) inside
(b) in
(c) into
(d) inner

Q16. when we drink a glass _____ a hot day.

(a) on
(b) onto
(c) of
(d) or

Q17. there is _____ refreshment.

(a) not
(b) no
(c) none
(d) never

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

Don't put all your eggs in one basket

(a) It is wise to have many baskets before you start collecting eggs.
(b) The strength of the safe has to be in proportion to the value of goods it has to protect.
(c) Have a fool proof plan before venturing on a risky mission.
(d) Don't risk everything on the success of one venture.

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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.

Let your hair down

(a) Behave uninhibitedly.
(b) Accept your deeds.
(c) Remove the mask.
(d) Feel fresh and rejuvenated.

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

Senseless talk or writing

(a) Astute
(b) Balderdash
(c) Sagacious
(d) Prudent

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

Made or done in the traditional or original way

(a) Authentic
(b) Effigy
(c) Archetype
(d) Forge

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".

At one time, the lock industry here flourished and locks (was exported) on a major scale.

(a) is exported
(b) were export
(c) were exported
(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".

The bliss of (oversleeping) cuddled up under a warm and cosy blanket is just other-worldly.

(a) oversleep
(b) oversleeps
(c) overslept
(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.

Students who

A: intricacies of learning it

B: subject know the

C: study logic as a

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

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

(a) scintillaters
(b) scintilators

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(c) scintillators
(d) scintilaters

GENERAL INTELLIGENCE

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

Rabbit : Animal : : ? : ?

(a) Sun : Moon
(b) Pentagon : Figure
(c) Lion : Bird
(d) Animal : Cow

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

63 : 36 : : ? : ?

(a) 94 : 49
(b) 35 : 54
(c) 47 : 72
(d) 73 : 39

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

ACD : ZXW : : PMN : ?

(a) LMN
(b) MPN
(c) KOP
(d) KNM

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

(a) Rhombus
(b) Cylinder
(c) Cone
(d) Sphere

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 options.

(a) 14 - 18
(b) 42 - 46
(c) 22 - 28
(d) 24 - 28

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

(a) UQMI
(b) SOKG
(c) MIEB
(d) PLHD

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

1. Exception
2. Exceptional
3. Exchanging
4. Exchanged
5. Excess

(a) 12543
(b) 21453

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(c) 42531
(d) 32154

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

11, 13, 17, 19, 23, ?

(a) 25
(b) 27
(c) 31
(d) 37

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

BEG, DGI, FIK, HKM, ?

(a) JNP
(b) NMO
(c) JMO
(d) KLO

Q35. Saurav, Mohit, Mukesh, Sumit and Bhim are arranged in descending order of their height from top to bottom. Saurav is at third place. Bhim is between Sumit and Saurav while Sumit is not at the top end. Who is at second place from the top?

(a) Mohit
(b) Mukesh
(c) Bhim
(d) Cannot be determined

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

Contemptuous

(a) Con
(b) Tom
(c) Pretty
(d) Post

Q37. In a certain code language, “DRAPE” is written as “IWFUJ”. How is “RIGID” written in that code language?

(a) CPLPK
(b) RVCVB
(c) WNLNI
(d) GTATK

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

4 × 18 ÷ 5 - 10 + 8 = ?

(a) 35
(b) 22
(c) 5
(d) 42

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

12 - 16 × 25 ÷ 80 + 10 = 7

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

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Q40. If 6α1 = 70, 2α3 = 50 and 4α5 = 90, then find the value of 1α4 = ?

(a) 50
(b) 30
(c) 10
(d) 60

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

BAAAAAAB, ABAAAAAB, AABAAAAB, AAABAAAB, AAAABAAB, _____.

(a) AAAAABAB
(b) AAAAAABB
(c) BAAAAAAB
(d) ABAAAAAB

Q42. A shopper in a mart loads his trolley and walks 30 m through an alley which is going South, then he turns to his left and walks 10 m, then he turns North and walks another 10 m, then he turns West and walks 45 m and then he turns North and walks 20 m. Where is he now with reference to his starting position?

(a) 35 m West
(b) 55 m West
(c) 35 m East
(d) 55 m East

Q43. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All watches are ornaments.

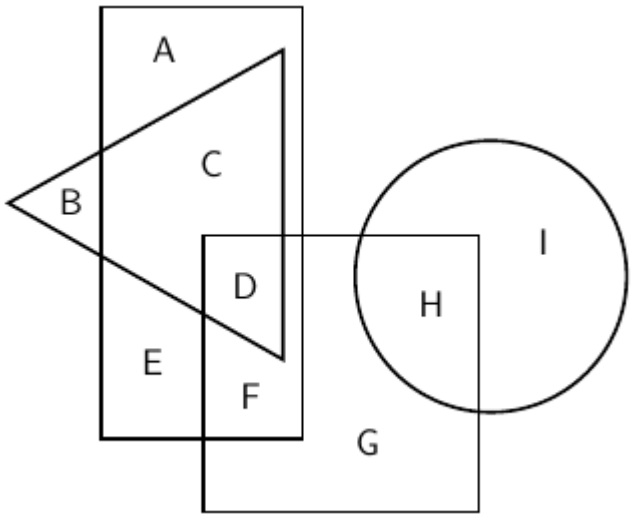
Statement II: All clocks are watches.

Conclusion I: All ornaments are clocks.

Conclusion II: All clocks are ornaments.

(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 Physicians, circle represents racers, triangle represents Writers and square represents Mothers. Which set of letters represents Mothers who are not Racers?



(a) FGH
(b) ECA
(c) DFG
(d) DGFI

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

GLN, HNQ, IPT, JRW, ?

(a) KTZ
(b) KUY
(c) LTY
(d) LUZ

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

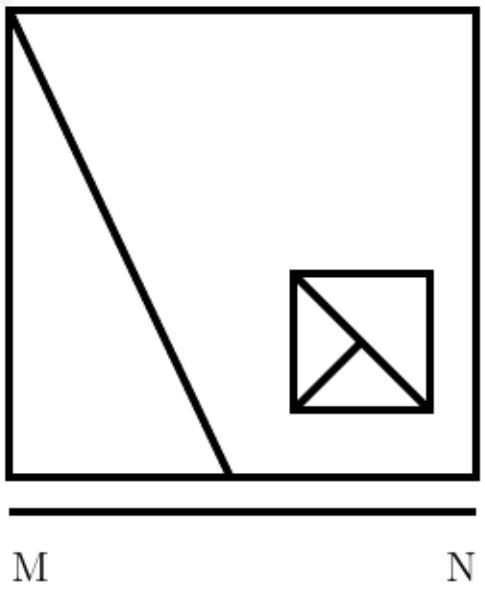
87, 62, 42, 27, 17, ?

(a) 7
(b) 12
(c) 8
(d) 10

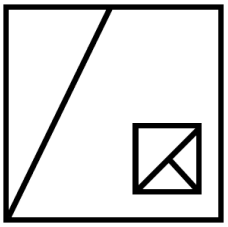
Q47. In the following question, four groups of three numbers are given. In each group, the second and the third number are related to the first number by a Logic/Rule/Relation. Three are similar on the basis of the same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (14, 29, 43)
(b) (11, 23, 34)
(c) (15, 31, 46)
(d) (21, 42, 64)

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

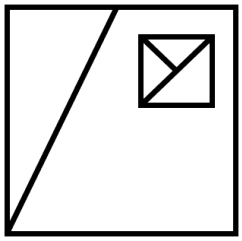


(a)

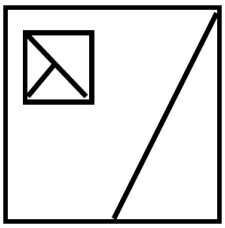


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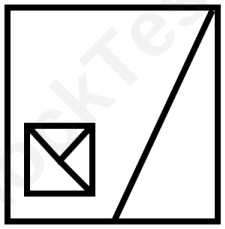
(b)



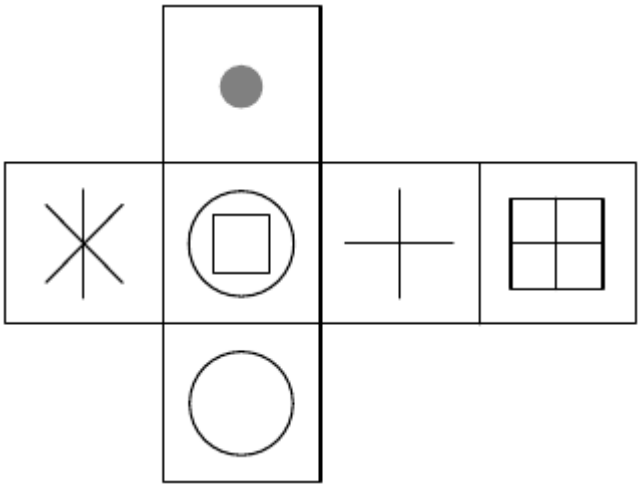
(c)



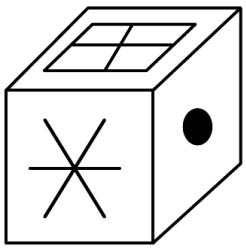
(d)



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

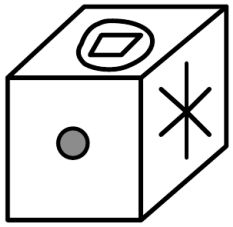


(a)

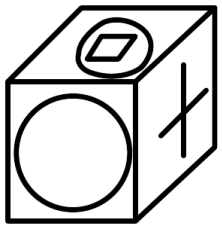


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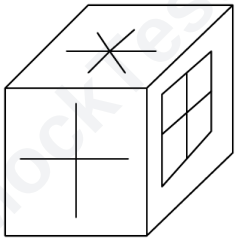
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The set of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'G' can be represented by, 04, 13 etc and 'Q' can be represented by 85, 96 etc. Similarly, you have to identify the set for the word 'GOES'.

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

(a) 11,75,12,77
(b) 32,76,44,95
(c) 13,78,41,66
(d) 33,88,21,89

QUANTITATIVE APTITUDE

Q51. Find the remainder in the expression (557 × 653 × 672)/9

(a) 0
(b) 3
(c) 5
(d) 6

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Q52. Calculate the value of x, if √(1 - (x/529)) = (16/23)~~

(a) 283
(b) 276
(c) 273
(d) 374

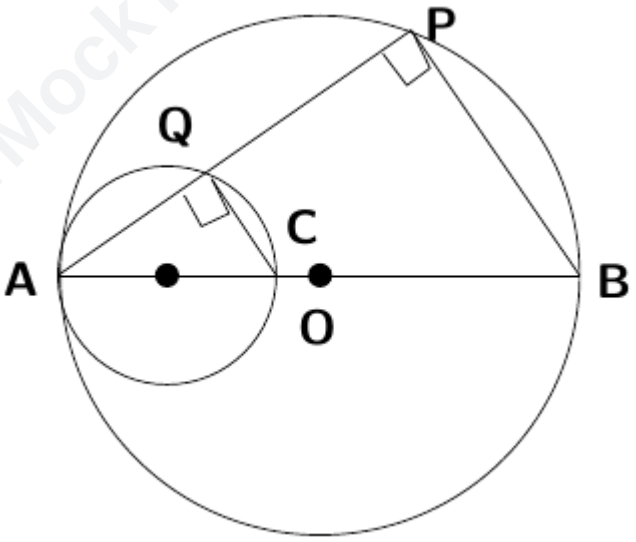
Q53. How many solutions does a pair of linear equations will have, if the equations are 4x + 5y – 6 = 0 and 16x + 20y + 20 = 0?

(a) 0
(b) 1
(c) 2
(d) 3

Q54. Determine the value of m for which 4x + √x/6 + $(m^2)/4$ is a perfect square.

(a) 1/24
(b) 1/12
(c) 12
(d) 24

Q55. Consider the circle as shown in the figure and choose the CORRECT option for this case.



(a) QC || PB
(b) QC is never parallel to PB
(c) QC = 1/2 × PB
(d) QC || PB, QC = 1/2 × PB

Q56. The angle subtended by the chord of length 10 cm is 120° at the centre. Calculate the distance of the chord (in cm) from the centre.

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

Q57. If P : Q = 9 : 7, then what is the value of (P – Q) : (P + Q)?

(a) 1 : 2
(b) 1 : 8
(c) 1 : 4
(d) 2 : 13

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Q58. How much quantity (in kg) of wheat costing Rs. 84 per kg must be mixed with 81 kg of wheat costing Rs. 60 per kg so that on selling the mixture at Rs. 75.9 per kg, there is a gain of 15%?

(a) 27
(b) 20.5
(c) 22.75
(d) 24

Q59. The average height of A, B and C is 148 cm. If the average height of A and B is 136 cm and that of B and C is 125 cm, then what is the height (in cm) of B?

(a) 56
(b) 78
(c) 112
(d) 130

Q60. Some part of Rs. 17500 was lent at the rate of 24% per annum simple interest and the remaining part at the rate of 10% per annum simple interest. The total interest received after 5 years is Rs. 13300. What is the ratio of money lent at the rate of 24% and 10%?

(a) 12 : 13
(b) 3 : 4
(c) 3 : 2
(d) 13 : 22

Q61. If 60% of total articles are sold at a loss of 50% and remaining articles are sold at a profit of 50%, then what will be the overall loss percentage?

(a) 20
(b) 15
(c) 25
(d) 10

Q62. If three successive discounts of 20%, 30% and 40% are given, then what will be the net discount (in percentage)?

(a) 80
(b) 87.6
(c) 90
(d) 66.4

Q63. Which of the following statements(s) is are TRUE?

I. $\sqrt{676} + \sqrt{6.76} + \sqrt{0.0676} = 27.76$

II. $\sqrt{(339 + \sqrt{36} + \sqrt{49} + \sqrt{81})} = 19$

(a) Only I
(b) Only II
(c) Neither I nor II
(d) Both I and II

Q64. R is 80% more efficient than S. If S alone can make a book in 90 days, then R alone can make the book in how many days?

(a) 65
(b) 60
(c) 50
(d) 70

Q65. Diameter of a car wheel is 21 cm. A car driver moving at the speed of 66 km/hr takes 36 seconds to reach a destination. How many revolutions will the wheel make during the journey?

(a) 1800
(b) 1500
(c) 1200

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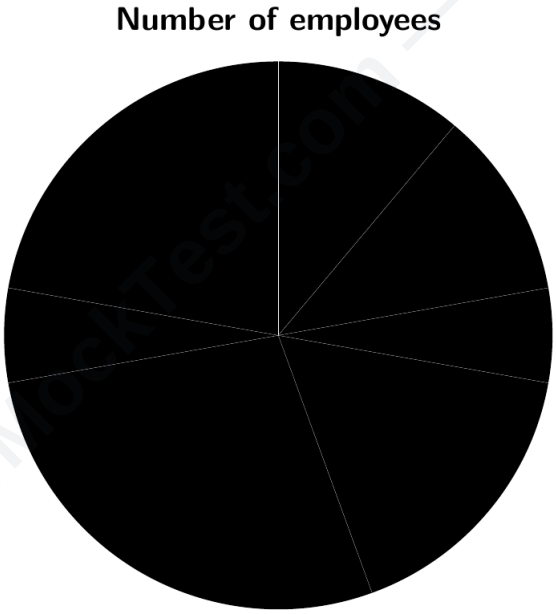
(d) 1000

Q66. What is the value of 88% of 1125 + 20% of 425?

(a) 1025
(b) 1125.2
(c) 1075
(d) 1055

Directions

Directions: The HR department of a company prepared a report. The pie chart from this report shows number of employees in all the departments that the company has. Study the diagram and answer the following questions.



Q67. The most number of employees belong to which department?

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

Q68. What is the total number of employees of the company?

(a) 400
(b) 600
(c) 480
(d) 540

Q69. The measure of the central angle of the sector representing department B is _____ degrees.

(a) 30
(b) 40
(c) 50
(d) 60

Q70. If the average monthly salary of the employees of this company is Rs. 20,000 then what is the total of the salaries (in Rs lakhs) paid to all the employees of this company?

(a) 112
(b) 120
(c) 124
(d) 108

Q71. The area of an equilateral triangle is $49\sqrt{3}$ cm². Find its side (in cm).

(a) 7
(b) 14
(c) 28
(d) 42

Q72. What is the measure of an exterior angle of a regular polygon of 6 sides?

(a) 45°
(b) 60°
(c) 40°
(d) 36°

Q73. The total surface area of a hemisphere is 1039.5 cm². Find its diameter (in cm).

(a) 21
(b) 10.5
(c) 42
(d) 31.5

Q74. ΔDEF is right angled at E. If angle F = 30°, then find the value of (cos D – 1/√2).

(a) -1/2
(b) (√6 – 1)/√3
(c) (√2 – 2)/2√2
(d) √3 – 2

Q75. In ΔPQR measure of angle Q is 90^o. If tan P = 24/7, and PQ = 14 cm, then what is the length (in cm) of side QR?

(a) 50
(b) 20
(c) 26
(d) 48

GENERAL AWARENESS

Q76. The agricultural price support program is an example of _____.

(a) a price ceiling
(b) a price floor
(c) equilibrium pricing
(d) No option is correct.

Q77. Which was the first modern industry to develop in India?

(a) Iron and Steel Industry
(b) Cement Industry
(c) Cottage Industry
(d) Engineering Industry

Q78. Which of the following lake lies on the Equator in Africa continent?

(a) Tanganyika
(b) Victoria lake
(c) Nyasa lake
(d) Lake Kariba

Q79. Jog Falls is situated on which river?

(a) Sharavati
(b) Cauvery
(c) Narmada
(d) Chambal

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Q80. Faizi lived in the court of _____.

(a) Humayun
(b) Dara Shikoh
(c) Bahadur Shah Zafar
(d) Akbar

Q81. Where did the leader of the Individual Satyagraha movement, Acharya Vinoba Bhave start this movement?

(a) Nashik
(b) Poona
(c) Pavnar
(d) Nagpur

Q82. The well-known dialogue between Nachiketa and Yama is mentioned in which Upanishad?

(a) Chhandogyopanishad
(b) Mundkopanishad
(c) Kathopanishad
(d) Kenopanishad

Q83. Which country, in January 2018 broke India's monopoly in providing Internet access to Nepal by becoming country's second Internet service provider?

(a) South Korea
(b) China
(c) Japan
(d) Indonesia

Q84. Which among the following is NOT a recipient of Sangeet Natak Akademi's fellowships (Akademi Ratna)-2018?

(a) Gajendra Chauhan
(b) Ram Gopal Bajaj
(c) Sunil Kothari
(d) Arvind Parikh

Q85. When was the "Boxer Rebellion" happened in China?

(a) 1895
(b) 1900
(c) 1905
(d) 1909

Q86. What is formed when helium atom loses one electron?

(a) Proton
(b) Positive helium ion
(c) Negative helium ion
(d) Alpha particle

Q87. Apart from proposing an atomic theory, what did John Dalton researched on?

(a) Plants
(b) Colour blindness
(c) Penicillin
(d) Plastic

Q88. Which among the following is/are the unitary feature (s) of Indian Constitution?

I. Single Constitution for State and Centre
II. Single Citizenship
III. Integrated Judiciary

(a) Only I
(b) Only II

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(c) Both I and II
(d) All I, II and III

Q89. Article 360 of Indian Constitution, empowers whom to proclaim a Financial Emergency?
(a) The Finance Minister of India
(b) The Governor of Reserve Bank of India
(c) The President of India
(d) Defence Minister of India

Q90. Match the following.

Organism	Feature of fission
I. Amoeba	1. Many daughter cells by multiple fission
II. Leishmania	2. Fission takes place in a definite orientation
III. Plasmodium	3. Fission can take place in any plane

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

Q91. What is the basis of classifying various plant tissues as meristematic tissue and permanent tissue?
(a) Size
(b) Dividing capacity
(c) Location
(d) No option is correct.

Q92. In December 2017, who launched project 'DARPAN' (Digital Advancement of Rural Post Office for a New India)?
(a) Jayant Sinha
(b) Manoj Sinha
(c) Ravi Shankar Prasad
(d) Prakash Javadekar

Q93. Botanical Survey of India has discovered a new species of parasitic flowering plant Gleadovia Konyakianorum named in the honour of which community?
(a) Toda
(b) Caddo
(c) Nagas
(d) Tobu

Q94. In October 2017, State Bank of India announced to set up Country's largest innovation centre in _____.
(a) New Delhi
(b) Bangalore
(c) Navi Mumbai
(d) Hyderabad

Q95. The Union Home Ministry will set up an Indian Cyber Crime Coordination Centre (14C), an apex coordination centre at which place to deal with cybercrimes?
(a) Hyderabad
(b) Pune
(c) Bengaluru
(d) New Delhi

Q96. A body of mass 6 kg accelerates from 6 m/s to 18 m/s in 3 seconds due to the application of a force on it. Calculate the magnitude of this force (in N).
(a) 48
(b) 60

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(c) 24
(d) 96

Q97. We obtain average _____ by dividing the total energy consumed by the total time taken.
(a) force
(b) power
(c) torque
(d) momentum

Q98. Water covers _____% of the Earth's surface.
(a) 95
(b) 70
(c) 55
(d) 35

Q99. Which of the statements given below are correct?
A) In 2017, Lewis Hamilton raced in Formula One for Mercedes.
B) In 2018 IPL auctions, Mumbai Indians retained Hardik Pandya.
C) Chen Meng won the Table Tennis 2017 ITTF World Tour Grand Finals Women's Singles.
(a) Only A
(b) Only B
(c) Both B and C
(d) A, B and C

Q100. _____ among the following is not an operating system.
(a) Mozilla Firefox
(b) Microsoft Windows
(c) Linux
(d) Apple MacOS

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 1

The correct answer is 1

Key Points

Reading the above sentence, we find that:

• The sentence is in the past tense, as we can figure out from the word enveloped.

• Therefore the verb look should be changed to looked, which is the past tense form of look.

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• Thus from the given points, we can infer that the error lies in the 1st part of the sentence.

Therefore the correct answer is 1.

The correct answer will be: I looked up after the blast of light had enveloped the park.

Q2. Answer: (b) 2

The correct answer is 2.

Key Points

Reading the above sentence we find that:

• The word while is incorrectly used.

• While is a noun that means a period of time.

• It can also be used as a conjunction and as an adverb with the same meaning.

• Instead, we should use a pronoun that is used to refer to something previously mentioned.

• Which is a pronoun that is used to refer to something previously mentioned.

• Thus from the above points we can conclude that the error lies in part 2 of the sentence.

The correct sentence will be: According to the Copernican principle, the Earth does not occupy a unique position in the Universe which implies life on other plants can be a possibility.

Q3. Answer: (c) coming of

The correct answer is "Coming of"

Key Points

• Let's look at the meaning of the correct option.

• Coming of when coupled with the word 'age' becomes a very commonly used phrase in the English Language.

• Coming of age: used to describe a young person's transition from being a child to being an adult.

• Example - The movie is a coming of age story about a girl coping with the awkwardness of high school.

• From the above points, we see how coming of age is the most appropriate phrase given the context of the sentence.

Therefore the correct option is option 3.

Q4. Answer: (d) permanent

The correct answer is permanent.

Key Points

Let's look at the meaning of the given options.

• Imminent: About to happen.

• Deponent: Passive or middle in form but active in meaning.

• Remnant: A part or quantity that is left after the greater part has been used.

• Permanent: Lasting or intended to last or remain unchanged indefinitely

Out of the given meanings, only the meaning of the word permanent is appropriate regarding the context of the sentence.

The correct sentence: The love which is based on physical beauty is not permanent.

Q5. Answer: (a) Pacify

The correct answer is Pacify.

Key Points

Let's look at the meaning of the given word and the correct option.

• Mollify: To calm; quieten; reduce the severity of.

• Pacify: To make calm.

Thus from the given meanings, we find that both words express the same meaning.

Therefore the correct is Pacify.

Additional Information

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

• Agitate: Make someone troubled or nervous.

• Provoke: Stimulate or give rise to (a reaction or emotion, typically a strong or unwelcome one) in someone.

• Worry: Feel or cause to feel anxious or troubled.

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Q6. Answer: (a) Appeal

The correct answer is Appeal.

Key Points

Let's look at the meaning of the given word and the correct option.

• Importune: To ask someone for something or ask someone to do something, in an annoying way.

• Appeal: Serious urgent or heartfelt request.

Thus, from the above points, we find that both the word express the meaning of asking for something, albeit in two different ways.

Additional Information

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

• Important: Of great significance or value.

• Imply: Indicate the truth or existence.

• Purchase: Acquire by paying for it.

Q7. Answer: (d) Slim

The correct answer is Rotund

Key Points

Let's look at the meaning of the given word and the correct answer.

• Rotund: Large and plump.

• Slim: Gracefully thin; slender.

Thus from the above meanings, we find that both the words express the opposite meaning.

Thus the correct answer is Slim.

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

• Fat: Having a large amount of excess flesh.

• Broad: Large in area, covering a large area.

• Dumpy: Short and stout (with respect to a person.)

Q8. Answer: (b) Modest

The correct answer is Modest.

Key Points

Let's look at the meaning of the given word and the correct option.

• Flamboyant: Tending to attract attention because of their exuberance.

• Modest: Relatively moderate.

Thus from the above meanings, we find that both the words express the opposite meanings.

Additional Information

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

• Glamorous: The quality of being alluring; fascinating and charming.

• Colourful: Having much or varied colour.

• Sporty: Casual yet attractively stylish.

Q9. Answer: (d) RPQ

Equity = fairness. Where can you bring fairness? R must be first as access to doctors and medicines aptly fits the context. Rule out 1) and 3). Q can't be next as medicines a priority for will be grammatically incorrect especially since there is no comma after medicines. Option 4) RPQ is the correct answer.

Bringing equity in access to the doctors and medicines for the rural population should be a priority for the National Health Mission.

Q10. Answer: (b) A rat was caught by the cat.

The correct answer is A rat was caught by the cat.

Key Points

While changing an active voice to a passive voice:

• The object of the active voice becomes the subject of the passive voice and vice versa.

• Here the object rat becomes the subject.

• And the subject cat becomes the object.

• The sentence is given in the simple past tense and it will change to was/were + past participle.

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• Thus the sentence becomes A rat was caught by the cat.

Thus from the above-given points, we can infer that the correct answer is A rat was caught by the cat.

Q11. Answer: (b) The wolf cried out to the hound that a thought had just come into his head.

Has => had in reported speech => rule out 3) and 4). With had, we always use the verb in its original form i.e simple present form. Come. Option 2) The wolf cried out to the hound that a thought had just come into his head is the correct answer.

Q12. Answer: (b) Category

The correct answer is Category.

Key Points

Looking at the given options we find that:

The only correctly spelt word is Category.

• Category: The class or division of things regarded as having particular shared characteristics.

• Example: The various categories of research.

Thus from the given points, we can conclude that the correct answer is Category.

Q13. Answer: (a) closely

The correct answer is closely.

Key Points

Reading the given sentence we find that:

• The blank should be filled with an adverb that will give more meaning to the verb examine.

• Out of the given options, only option 1 is an adverb.

• Thus the correct answer here will be closely.

• It tells us that facts are to be examined closely i.e with more detail.

Thus from the above points, we can conclude that the correct answer is closely.

Additional Information

Adverb: A word or phrase that modifies or qualifies an adjective, verb, or other adverb or a word group, expressing a relation of place, time, circumstance, manner, cause, degree, etc.

Q14. Answer: (d) than

The correct answer is than.

Key Points

Reading the given sentence we find that:

• A comparison is made here using more.

• Than is a preposition that is used in comparison.

• Than: used to introduce the second element in comparison.

• Example: They go out less than they did when they were in Paris.

Therefore, from the given points we can conclude that the correct answer is than.

Q15. Answer: (b) in

The correct answer is in

Key Points

Reading the given sentence we find that:

• The sentence must contain a preposition since it has to define a relation between the sun and sky.

• Since we are looking for a preposition the word inner can be ruled out as it is an adjective.

• We can also rule out inside as it will signify that the sky is containing the sun fully, which is not true.

• Into cannot be used here as it does not fit the context. The sun can never shine into the sky

• That leaves us with the in which is the correct preposition here.

• The preposition in tells us the position of the sun i.e where it is shining.

The correct answer is: 'sun is shining in a clear sky.'

Q16. Answer: (a) on

The correct answer is on.

Key Points

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Reading the given sentence we find that:

• A preposition that best describes or indicates the day or part of the day an event takes place.

• Here the question is indicating a hot day.

• Therefore, the most appropriate preposition from the options is 'on'.

• Whenever we describe the time of something with respect to date or day, we use on.

Therefore, the correct answer is on.

Q17. Answer: (b) no

The correct answer is no

Key Points

Reading the above sentence we find that:

• Not is an incorrect option here as it is used with verbs.

• None is an incorrect option here as it is followed by of.

• Never is an incorrect option here as it represents time, not quantity.

• Thus that leaves us with option no.

• Following the structure of the previous sentence i.e 'Unless the sun is shining, there is no brightness.'

Thus from the given points, we can come to the conclusion that the correct answer is no.

The correct answer will be: there is no refreshment.

Q18. Answer: (d) Don't risk everything on the success of one venture.

The correct answer is Don't risk everything on the success of one venture.

Key Points

Let's look at the meaning of the given idiom:

• Don't put all your eggs in one basket: one should not concentrate all efforts and resources in one area as one could lose everything.

• Example: While trading in stock putting all your eggs in one basket is a dangerous plan.

Thus from the given meaning, we can conclude that the correct answer is don't risk everything on the success of one venture.

Q19. Answer: (a) Behave uninhibitedly.

The correct answer is Behave uninhibitedly.

Key Points

Let's look at the meaning of the given idiom:

• Let your hair down: To act comfortable and relaxed to do what you want.

• Example: *I*t is only with friends that most people feel they can let their hair down and be themselves.

Thus from the given meaning, we can infer that the correct answers is behave uninhibitedly.

Additional Information

Let's look at the meaning of the word uninhibitedly.

• Uninhibitedly: Free from any inhibition; unrestrained or unselfconscious.

Q20. Answer: (b) Balderdash

The correct answer is Balderdash.

Key Points

Let's look at the meaning of the correct word.

• Balderdash: Senseless talk or writing; nonsense.

• Example: Every word that came out of the drunk man's mouth was balderdash.

Thus from the given meaning and example, we can conclude that the correct answer is balderdash.

Additional Information

Let's look at the meanings of the other given options.

• Astute: Ability to notice and understand things clearly.

• Sagacious: Having or showing keen mental discernment and good judgement; wise or shrewd.

• Prudent: Acting with or showing care and thought for the future.

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Q21. Answer: (a) Authentic

The correct answer is Authentic.

Key Points

Let's look at the meaning of the marked option.

• Authentic: Made or done in the traditional or original way, or in a way that faithfully resembles an original.

• Example: The restaurant serves authentic Italian meals.

Thus from the given meaning and example, we can conclude that the correct answer is authentic.

Additional Information

Let's look at the meanings of the other given words.

• Effigy: A sculptor or model of a person.

• Archetype: A very typical example of a person or a thing.

• Forge: Create something that is strong enduring or successful.

Q22. Answer: (c) were exported

The correct answer is was exported.

Key Points

Reading the given sentence we find that:

• The word flourished in the given sentence indicates that it is in the past tense.

• And the plural noun locks in the sentence indicates that the verb should have a plural helping verb.

• Thus from the above points, we can conclude that were exported will be the correct answer.

Thus the correct answer will be were exported.

In the given options the option 2 is wrong for the following reasons.

• Were export is wrong because as we have noticed, the sentence is in the past tense.

• Therefore the verb export should also be in the past tense i.e exported.

Q23. Answer: (d) no improvement

The correct answer is No improvement.

Key Points

• Reading the above sentence we find that:

• There is no error in the given sentence.

• In the given question a general experience or activity is mentioned.

• Therefore the correct noun for the activity is oversleeping.

• Even though it ends with an -ing, oversleeping, in this case, is a noun or it is a gerund.

Important Points

• Gerund: An -ing form of a verb that has the same function as a noun.

• Example: Sleeping is good for health.

• In the given example sleeping is an -ing form of a verb that is acting as a noun.

Additional Information

• Let's look at the meaning of the word Bliss

• Bliss: Happiness.

Q24. Answer: (d) CBA

The correct answer is CBA

Key Points

Reading the given question we find that:

• A sentence can't end with an article (a, an, the).

• Therefore parts B and C cannot be the last part of the sentence.

• Therefore only A can be the last part of the sentence.

• In the given question the Student's who ends with who and it should be followed by a verb.

• In part B 'subject know the' in this the word subject is not a verb.

• Therefore looking at the options we find that the correct option is CBA

Students who study logic as a subject know the intricacies of learning it.

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Q25. Answer: (c) scintillators

The correct answer is scintillators.

Key Points

Let's look at the meaning of the correct option.

• Scintillators: a material that fluoresces when struck by a charged particle or high-energy photon.

• Example: A 13ml of liquid scintillator.

Thus from the given meaning and the example we can conclude that the correct answer is scintillators.

All the other options are a wrong spelling of the given word.

Therefore the correct answer is scintillators.

Q26. Answer: (b) Pentagon : Figure

Just as Rabbit is an animals, Pentagon is a Figure.

Hence, answer is Pentagon: Figure.

Q27. Answer: (a) 94 : 49

The pattern followed here is:

63 is written in reverse as 36

Same pattern will be followed for missing terms:

94 is written in reverse order as 49.

Hence, answer is 94 : 49.

Q28. Answer: (d) KNM

The logic here is as follows

Opposite of each letter as per English alphabetic order has been written in the next word,

A is 1^(st) from left: Z is 1^(st) from right.

C is 3^(rd) from left: X is 3^(rd) form right.

D is 4^(th) from left: W is 4^(th) from right.

Same will be followed for PMN,

P is 16^(th) from right: K is 16^(th) form left.

M is 13^(th) form right: N is 13^(th) form left.

N is 14^(th) form right: M is 14^(th) form left.

Hence, the correct answer is “KNM”.

Q29. Answer: (a) Rhombus

The logic here is as follows:

All except Rhombus has Volume.

Hence, the correct answer is "Rhombus".

Q30. Answer: (c) 22 - 28

In all groups except group 3, second number is 4 more than the first number.

Hence, answer is 22 - 28.

Q31. Answer: (c) MIEB

The pattern followed here is :

U - 4 = Q; Q - 4 = M; M - 4 = I

S - 4 = O; O - 4 = K; K - 4 = G

M - 4 = I; I - 4 = E; E - 3 = B

P - 4 = L; L - 4 = H; H - 4 = D

So, MIEB are the odd letters as there is difference of 3 in E and B.

Hence, the correct answer is "MIEB".

Q32. Answer: (a) 12543

The dictionary order arrangement would be :

1. Exception

2. Exceptional
5. Excess
4. Exchanged
3. Exchanging
Hence, the correct answer is "12543".

Q33. Answer: (a) 25

The pattern followed here is :
11 + 2 = 13
13 + 4 = 17
17 + 2 = 19
19 + 4 = 23
Same pattern will be followed for missing number :
23 + 2 = 25
Hence, the correct answer is "25".

Q34. Answer: (c) JMO

The pattern followed here is:
So, next term in the series is JMO.
Hence, the correct answer is "JMO".

Q35. Answer: (d) Cannot be determined

On arranging descending order of height,

Position	Person	Condition
1	Mohit/ Mukesh	Sumit
2	Mohit/ Mukesh	
3	Saurav	
4	Bhim	
5	Sumit	

Here, either Mohit or Mukesh will be at second position.
Hence, the correct answer is "cannot be determined".

Q36. Answer: (c) Pretty

Let's check each option,
1) Con → Contemptuous → can be formed.
2) Tom → Contemptuous → can be formed.
3) Pretty → Contemptuous → cannot be formed as there is no ‘y’ and ‘r’.
4) Post → Contemptuous → can be formed.
Here, we can see that Pretty cannot be formed.
Hence, the correct answer is " Pretty ".

Q37. Answer: (c) WNLNI

The pattern followed here is:
Similarly,
Hence, the correct answer is " WNLNI ".

Q38. Answer: (c) 5

Given equation
=> 4 × 18 ÷ 5 - 10 + 8 =?

Symbol	•	•	×	÷
Code	•	÷	•	×

After Interchange
=> 4 + 18 × 5 ÷ 10 - 8
=> 4 + 18 × 0.5 - 8
=> 4 + 9 - 8
=> 13 - 8
=> 5
Hence, correct answer is " 5 ".

Q39. Answer: (b) • and +

Given equation: 12 - 16 × 25 ÷ 80 + 10 = 7
Let's check each option,
1) ÷ and ×
→ 12 - 16 ÷ 25 × 80 + 10 = 7
→ 12 - 0.64 × 80 + 10 = 7
→ 12 - 51.2 + 10 = 7
→ -29.2 ≠ 7
→ LHS ≠ RHS.
2) - and +
→ 12 + 16 × 25 ÷ 80 - 10 = 7
→ 12 + 16 × 0.3125 - 10 = 7
→ 12 + 5 - 10 = 7
→ 17 - 10 = 7
→ 7 = 7
→ LHS = RHS.
3) × and -
→ 12 × 16 - 25 ÷ 80 + 10 = 7
→ 192 - 0.3125 + 10 = 7
→ 201.6875 ≠ 7
→ LHS ≠ RHS.
4) ÷ and -
→ 12 ÷ 16 × 25 - 80 + 10 = 7
→ 0.75 × 25 - 80 + 10 = 7
→ 18.75 - 80 + 10 = 7
→ -51.25 ≠ 7
→ LHS ≠ RHS.
Hence, by interchanging - and +, we'll get the correct answer.
Hence, the correct answer is " - and + ".

Q40. Answer: (a) 50

The pattern followed here is:
6 + 1 = 7 and 7 × 10 = 70
2 + 3 = 5 and 5 × 10 = 50
4 + 5 = 9 and 9 × 10 = 90
Same pattern will be followed for 1α4:
1 + 4 = 5 and 5 × 10 = 50
Hence, correct answer is "50".

Q41. Answer: (a) AAAAABAB

The logic here is as follows:
B is moving 1 step ahead in every step.
BAAAAAAB, ABAAAAAB, AABAAAAB, AAABAAAB, AAAABAAB,
So, next term would be AAAAABAB.
Hence, the correct answer is "AAAAABAB".

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Q42. Answer: (a) 35 m West

The diagram given below shows the route of that shopper,

Hence, the correct answer is "35 m West".

Q43. Answer: (b) Only conclusion II follows

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

Conclusion I:

All ornaments are clocks → False (it is possible but not definite)

Conclusion II:

All clocks are ornaments → True

Hence, only conclusion II follows.

Q44. Answer: (c) DFG

Hence, answer is DFG.

Q45. Answer: (a) KTZ

The pattern followed here is:

So, the next term in the series is KTZ.

Hence, the correct answer is "KTZ".

Q46. Answer: (b) 12

The pattern followed here is:

87 - 25 = 62

62 - 20 = 42

42 - 15 = 27

27 - 10 = 17

Here, multiple of 5 are subtracted from the given number.

Same pattern will be followed to find the missing number:

17 - 5 = 12

Hence, the correct answer is "12".

Q47. Answer: (d) (21, 42, 64)

Logic: 1^(st) number = 3^(rd) number - 2^(nd) number

1) (14, 29, 43) → 43 - 29 = 14

2) (11, 23, 34) → 34 - 23 = 11

3) (15, 31, 46) → 46 - 31 = 15

4) (21, 42, 64) → 64 - 42 = 22 ≠ 21

Hence, (21, 42, 64) is the odd one among the given alternatives.

Q48. Answer: (b) [figure]

The mirror image is as follows:

Hence, the correct answer is "Option 2".

Q49. Answer: (d) [figure]

Let's check each option as per the opposite pair of faces pattern,

1)

→ Can be formed.

2)

→ Can be formed.

3)

→ Can be formed.

4)

→ Can't be formed because

and

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should be the opposite faces.

Here, we can see that only Cube in option 4 cannot be formed.

Hence, the correct answer is " Option 4 ".

Q50. Answer: (c) 13,78,41,66

By checking solving all the options:

1) 11, 75, 12, 77 → J, R, H, Z

2) 32, 76, 44, 95 → L, Z, L, Y

3) 13, 78, 41, 66 → G, O, E, S

4) 33, 88, 21, 89 → I, S, B, P

So, '13, 78, 41, 66' represents 'GOES'.

Hence, the correct answer is "13, 78, 41, 66".

Q51. Answer: (d) 6

Calculation:

(557 × 653 × 672)/9

(557/9), then remainder = 8

(653/9), then remainder = 5

(672/9), then remainder = 6

Now, (8 × 5 × 6)/9 = 240/9

If (240/9), then reminder = 6

Therefore Remainder is 6

Q52. Answer: (c) 273

Calculation:

√(1 - x/529) = 16/23~~

Squaring on both sides

=> (√(1 - x/529))² = (16/23)²

=> 1 – (x/529) = (256/529)

=> (x/529) = {1 – (256/529)}

=> x/529 = 273/529

=> x = 273

Therefore the value of x is 273

Q53. Answer: (a) 0

Given:

4x + 5y – 6 = 0 & 16x + 20y + 20 = 0

Concept used:

If there are two simultaneous equations a1x + b1y + c1 = 0 and

a2x + b2y + c2 = 0, then the system of equations has

1) Unique solution if a1/a2 ≠ b1/b2

2) Infinite solution if a1/a2 = b1/b2 = c1/c2

3) No solution if a1/a2 = b1/b2 ≠ c1/c2

Calculation:

Comparing on a1x + b1y + c1 = 0 & a2x + b2y + c2 = 0

=> a1 = 4, b1 = 5, c1 = - 6 & a2 = 16, b2 = 20, c2 = 20

=> 4/16 = 5/20 ≠ (-6)/20

So, there is no solution.

Therefore The correct answer is 0

Q54. Answer: (b) 1/12

Given:

4x + √x/6 + (m²)/4

Formula used:

$(a + b)^2 = a^2 + 2ab + b^2$

Calculation:

=> $4x + \sqrt{x}/6 + (m^2)/4$

=> $(2\sqrt{x})^2 + 2 \times 2\sqrt{x} \times 1/24 + (m/2)^2$~~

To make the above equation a perfect square,

=> $m/2 = 1/24$

=> $m = 2/24$

Therefore $m = 1/12$

Q55. Answer: (a) QC || PB

In this question options 3 & 4 not correct because data not sufficient to prove $QC = 1/2 \times PB$

And given that angle AQC = angle APB = 90°

Now, we can say QC || PB

Q56. Answer: (a) 5/√3

Given:

angle AOB = 120°

AB = 10 cm

Calculations:

Draw OD perpendicular to AB

So, angle DOB = 1/2 × angle AOB = 1/2 × 120 = 60°

=> DB = 1/2 × 10 = 5 cm

Now, In ΔODB

=> cot 60° = OD/DB

=> $1/(\sqrt{3}) = OD/5$

=> $OD = 5/(\sqrt{3})$ cm

Therefore The distance of the chord from the centre is $5/(\sqrt{3})$ cm.

Q57. Answer: (b) 1 : 8

Calculation:

If P : Q = 9 : 7

Let P = 9k & Q = 7k

So, (P – Q) : (P + Q) = (9k – 7k) : (9k + 7k) = 2k : 16k = 1 : 8

Q58. Answer: (a) 27

Calculation:

Let x kg of wheat costing Rs 84 per kg must be mixed.

SP of the 1 kg wheat = Rs. 75.9

Gain% = 15%

So, CP of the 1 kg wheat = 75.9 × 100/115 = Rs. 66

Using allegation method

Thus, ratio of 1^(st) type to 2^(nd) type of wheat mixed = 6 : 18 = 1 : 3

=> x/81 = 1/3

=> x = 27 kg

Therefore 27 kg of wheat costing Rs. 84 per kg must be mixed.

Q59. Answer: (b) 78

Given:

Average height of A, B, & C = 148

Average height of A & B = 136

Average height of B & C = 125

Formula used:

Average = Sum of observation ÷ no. of observation

Calculation:

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A + B + C = 148 × 3 = 444 ----(1)
A + B = 136 × 2 = 272 ----(2)
B + C = 125 × 2 = 250 ----(3)
Subtract equation (2) from equation (1)
A + B + C – A – B = 444 – 272
=> C = 172
Putting value of C in equation (3), we get
B + 172 = 250
Therefore B = 250 – 172 = 78 cm

Q60. Answer: (d) 13 : 22

Given:
P = 17500,
SI = 13300
T = 5 years
Formula used:
S.I. = P × R × T/100
where P → Principal
R → Rate of interest
T → Time period
Calculation:
=> SI = (p × r × t)/100
=> 13300 = (17500 × r × 5)/100
=> r = 15.2%
Using allegation method
Therefore Required ratio = 5.2 : 8.8 = 13 : 22

Q61. Answer: (d) 10

Calculation:
Let total articles = 100
And, total CP of articles = Rs. 100
If 60% of total articles are sold at a loss of 50% and the remaining articles are sold at a profit of 50%
So, SP of 60 articles = 60 × 50/100 = 30
And, SP of 40 article = 40 × 150/100 = 60
Total SP of all article = 60 + 30 = 90
Therefore loss% = (CP – SP)/CP × 100 = (100 – 90) /100 × 100 = 10%

Q62. Answer: (d) 66.4

Given:
The successive discount are 20%, 30% and 40%.
Formula:
Successive discount = X + Y - (XY)/100
Where,
X = First discount
Y = Second discount
Calculation:
Successive discount = X + Y - (XY)/100
=> 20 + 30 - 600/100
=> 44%
Now, again
Successive discount = X + Y - (XY)/100
X = 44%, Y = 40%
=> 44 + 40 - (44 × 40)/100

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=> 84 - 176/10

=> 84 - 17.6 = 66.4%

Therefore The single equivalent discount is 66.4%.

Let MP be 100

SP after discount = 100 × 80/100 × 70/100 × 60/100 = 33.6

We know, discount = MP – SP

So, net discount = 100 – 33.6 = 66.4

Therefore Discount % = 66.4/100 × 100 = 66.4%

Q63. Answer: (b) Only II

Calculation:

√676 + √(6.76) + √0.0676 = 27.76

=> 26 + 2.6 + 0.26 = 27.7

=> 28.86 = 27.7

So, statement 1 is false.

√(339 + 36 + 49 + 81) = 19

=> √(339 + 6 + 7 + 9) = 19

=> √361 = 19

=> 19 = 19

So, statement 2 is true.

Q64. Answer: (c) 50

Given:

Efficiency of R = 80% more than S

No. of days S take to complete task = 90 days

Formula used:

Total work = Efficiency × Time

Calculation:

Let efficiency of S be 100

Thus, Efficiency of R = 100 × 180/100 = 180

Ratio of their efficiency R : S = 180 : 100 = 9 : 5

If S alone can make a book in 90 days,

So, Total work = 90 × 5 = 450

Therefore R alone can complete the book = 450/9 = 50 days

Q65. Answer: (d) 1000

Shortcut Trick

Distance = Speed × Time = (66 × 5/18) × 36 = 660 m = 66000 cm.

Circumference of wheel = πd = (22/7) × 21 = 66 cm.

Revolutions = Total Distance ÷ Circumference = 66000 ÷ 66 = 1000.

Therefore The correct answer is 1000.

Alternate Method

Given:

=> Diameter of the car wheel (d) = 21 cm

=> Speed of the car (v) = 66 km/hr

=> Time taken (t) = 36 sec

Calculations:

=> First, convert Speed from km/hr to m/s:

=> Speed = 66 × (5/18) m/s = (11 × 5)/3 = 55/3 m/s

=> Total Distance covered (D) = Speed × Time

=> D = (55/3) × 36 = 55 × 12 = 660 meters

=> Convert distance to centimeters: D = 660 × 100 = 66000 cm

=> Circumference of the wheel (C) = π × d

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=> C = (22/7) × 21 = 22 × 3 = 66 cm

=> Number of Revolutions (n) = Total Distance ÷ Circumference

=> n = 66000 ÷ 66 = 1000

=> Therefore, the wheel makes 1000 revolutions, which corresponds to option (4).

Therefore The correct answer is 1000.

Additional Information

Circumference of a Circle

The distance covered by a wheel in one complete revolution is equal to its circumference, given by 2πr or πd.

Unit Conversions

To convert km/hr to m/s, multiply the value by 5/18. To convert meters to centimeters, multiply by 100.

Distance Formula

Distance = Speed × Time. Ensure all units are consistent (e.g., speed in m/s and time in seconds) before calculation.

Q66. Answer: (c) 1075

Calculation:

Let the value be x

=> x = 88% of 1125 + 20% of 425

=> x = 1125 × 88/100 + 425 × 20/100

Therefore x = 990 + 85 = 1075

Q67. Answer: (a) E

Therefore The most number of employees belong to E department = 150

Q68. Answer: (d) 540

Calculation:

Therefore Total number of employees of the company = 60 + 60 + 30 + 90 + 150 + 30 + 120 = 540

Q69. Answer: (b) 40

Calculation:

Total employees of the company = 540

No. of Employees in department B = 60 employees

Therefore Measure of the central angle = 360°/540 × 60 = 40°

Q70. Answer: (d) 108

Given:

Total employees of the company = 540

Average monthly salary of the employees of the company = 20,000

Concept used:

Sum of the salary = average salary × total number of employees

Calculation:

Sum of the monthly salary of the employees of the company = 20,000 × 540 = 108,00,000

Therefore Total of the salaries 108 lakhs paid to all the employees of the company.

Q71. Answer: (b) 14

Given:

The area of an equilateral triangle = 49√3 cm2

Formula used:

Area of an equilateral triangle = √3/4 × a^2

where a → side of the triangle

Calculation:

=> √3/4 × a^2 = 49√3

=> a^2 = 49 × 4

=> a = 14

Therefore the side of the triangle = 14

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Q72. Answer: (b) 60°

Given:

No. of sides of a regular polygon = 6

Formula used:

The measure of an exterior angle of a regular polygon of n side = 360°/n

Calculation:

The measure of an exterior angle of a regular polygon of 6 sides

=> 360°/6 = 60°

Q73. Answer: (a) 21

Given:

The total surface area of a hemisphere = 1039.5 cm2.

Formula used:

Total surface area of a hemisphere = $3\pi r^2$

where r → radius of the hemisphere

Calculation:

Total surface area of a hemisphere = 1039.5

=> $3\pi r^2 = 1039.5$

=> $3 \times 22/7 \times r^2 = 1039.5$

=> $r^2 = 110.25$

=> $r = 10.5$

Therefore Diameter of the hemisphere = 10.5 × 2 = 21 cm

Q74. Answer: (c) (√2 – 2)/2√2

We know, sum of all the angles of a triangle is 180.

=> angle D + angle E + angle F = 180°

=> angle D + 90 + 30 = 180°

=> angle D = 60°

Therefore (cosD – 1/√2) = cos 60° – 1/√2 = 1/2 – 1/√2 = (√2 – 2-_-)/2√2

Q75. Answer: (d) 48

Given, angle Q = 90, tan P = 24/7 and PQ = 14 cm

tan P = perpendicular/base = QR/PQ = 24/7

=> 24/7 = QR/PQ

=> QR = 24/7 × 14 = 48 cm

Therefore the length of side QR = 48 cm

Q76. Answer: (b) a price floor

A price ceiling	**It is a situation when the price charged is more than or less than the equilibrium price by market.**
A price floor	A price floor is the lowest legal price that can be sold commonly. It is used by the government to prevent prices from being too low.
Equilibrium pricing	It is the market price where the quantity of goods supplies is equal to the number of goods in demand.

So, the agricultural price support program is an example of a price floor.

Q77. Answer: (a) Iron and Steel Industry

The correct answer is the Iron and Steel Industry.

Key Points

• The iron and Steel Industry was the first modern industry to develop in India.

• India is the largest producer of raw steel and the largest producer of sponge iron in the world.

• The economic reforms of 1991 open new doors for these industries, licensing requirements were abolished and automatic approval of foreign equity investment up to 100% was granted.

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• India is 3ed largest finished steel consumer in the world after China and USA.

• The government has taken several steps to boost the sector including the introduction of National Steel Policy 2017.

Additional Information

• China is the world's largest crude steel producer followed by India, Japan, and the USA in 2018.

• Iron & steel are freely importable and exportable products.

• The cottage industry is one of the oldest industries in India, which traces its roots from ancient times.

Q78. Answer: (b) Victoria lake

• Victoria lake lies on the Equator in Africa continent.

• Lake Victoria is the largest lake in Africa and chief reservoir of the Nile lying mainly in Tanzania and Uganda but bordering on Kenya.

• Lake Victoria is the largest freshwater body in Africa and second largest in the world, smaller only than lake superior, which is one of North America's Great Lakes.

Q79. Answer: (a) Sharavati

• Jog falls, Gerosoppa falls or jog falls is the second-highest plunge waterfall in India located in Karnataka.

• Jog falls is created by the Sharavatihi river dropping 253m (830 ft).

• Plunge waterfall it means water descends vertically, losing contact with bedrock surface.

Q80. Answer: (d) Akbar

The correct answer is Akbar.

Key Points

• Abu'l-Fazl ibn Mubarak, often known as Abul Fazl or Abu'l Fadl, was the Mughal emperor Akbar's grand vizier from 1579 until his death in 1602.

• He wrote the Akbarnama, a three-volume official chronicle of Akbar's reign, as well as a Persian translation of the Bible.

• He was also a member of Emperor Akbar's royal court's Nine Jewels and the brother of Faizi, the poet laureate.

• Faizi was the pen name of Abu al-Faiz ibn Mubarak, a late medieval Indian poet, and scholar whose descendants were Malik-ush-Shu'ara (poet laureate) of Akbar's Court.

• He was Akbar's historian Abul Fazl's older brother.

• Akbar admired his brilliance and made him a tutor for his kids, as well as placing him among his ornamental 'Navaratnas.'

Important Points

• Nine Gems (Navratna) of Akbar's Court

Name	Points to remember
Abul Fazl	He was the chronicler of Akbar's rule. He authored Akbar's biography - Akbarnama. Abul Fazl documented the history meticulously for seven years.
Faizi	Faizi translated the Panchatantra, the Ramayana, and the Mahabharata into Persian.
Raja Todar Mal	Todar Mal was the revenue minister of Sher Shah Suri who continued in the position in the court of Akbar. He introduced standard weights and measurements, revenue districts, and officers.
Abdul Rahim Khan-i-Khanan	Abdul Rahim Khan-I-Khanan was the son of Akbar's general Bairam Khan, the person who looked after him after the death of Humayun. Rahim is known for his couplets or Dohe.
Tansen	Tansen (original name Ramtanu Pandey) was a great musician who is credited with the innovation of Raagas such as Mian ki Malhar, Mian ki Todi and Darbari Kanada.
Raja Man Singh	Raja Man Singh, a trusted lieutenant of Akbar was the grandson of Akbar's father-in-law. Raja Man Singh assisted Akbar on many fronts including holding off advancing Hakim (Akbar's half-brother) in Lahore. He also led campaigns in Orissa.
Faqir Aziao Din	He was a mystic and advisor whose advice Akbar regarded respectfully.

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Mullah Do Piazza	He was also an advisor in the court of Akbar known for his intelligence.
Birbal	His original name was Mahesh Das. He was a well-known court jester.

Q81. Answer: (c) Pavnar

The correct answer is Panvar

• After the failure of August's offer, Gandhi decided to initiate a limited satyagraha on an individual basis by a few selected individuals in every locality.

• The aims of launching individual satyagraha were:

• to show that nationalist patience was not due to weakness;

• to express people's feeling that they were not interested in the war they made no distinction between Nazism and the double autocracy that ruled India;

• to give another opportunity to the Government to accept Congress' demands peacefully.

• Vinoba Bhave was the first to offer the satyagraha and Nehru, the second.

• By May 1941, 25,000 people had been convicted for individual civil disobedience.

• In Pavnar the leader of the Individual Satyagraha movement, Acharya Vinoba Bhave started this movement.

• The individual Satyagraha movement was not to seek independence but to affirm the rights of speech.

• Vinayak Narahari Vinoba Bhave was an Indian advocate of nonviolence and human rights and also best known for the Bhoodan movement.

Q82. Answer: (c) Kathopanishad

The Upanishads are ancient Sanskrit texts that contain some of the central philosophical concepts and ideas of Hinduism, some of which are shared with religious traditions like Buddism and Jainism.

The Katha Upanishad is one of the primary Upanishads which was embedded in the last short eight sections of Katha school of the Krishna Yajurveda.

The well-known dialogue between Nachiketa and Yama is mentioned in Kathopanishad.

Q83. Answer: (b) China

In January 2018 China broke India's monopoly in providing Internet access to Nepal by becoming country's second Internet service provider.

New terrestrial fibre cable was launched in 2016 by CTG (China Telecom Global) will now connect Nepal and China through the Jilong border gateway.

Q84. Answer: (a) Gajendra Chauhan

Gajendra Chauhan is NOT a recipient of Sangeet Natak Akademi's fellowships (Akademi Ratna) in 2018.

The Sangeet Natak Akademi fellowship is an Indian honour awarded for Performing Arts in India.

It is most prestigious and rare honour conferred by the Akademi and is restricted to 40 individuals at any given time.

Q85. Answer: (b) 1900

The Boxer Rebellion, Boxer uprising of Yihetuan Movement was a violent anti-foreign, anti-colonial and anti-Christian uprising that took place in China between 1899 and 1901 towards the end of the Qing dynasty.

Q86. Answer: (b) Positive helium ion

The correct answer is Positive helium ion.

Key Points

• Two protons and either one or two neutrons, depending on the isotope, are kept together by the strong force in the helium nucleus.

• It is made up of two electrons bound by the electromagnetic force to it.

• A helium atom gains a positive charge when electrons are lost because there are more protons in the helium atom than electrons.

• Helium forms a positive ion with a +1 charge when it loses one electron.

Additional Information

• Proton:

• With an elementary electric charge of +1 e, a proton is a stable subatomic particle.

• Negative helium ion:

• Collisions between ground-state helium atoms and the lead and magnesium vapours in the energy range of 20 to 40 keV resulted in the production of helium-negative ions.

• Alpha particle:

• Two protons and two neutrons are joined together to form the alpha particle.

Q87. Answer: (b) Colour blindness

Apart from proposing an atomictheory, John Dalton researched Colour Blindness.

His first paper on “Extraordinary facts relating to the vision of colours” in which he postulated that storage in colour perception was caused by discolouration of the liquid medium of the eyeball.

Q88. Answer: (d) All I, II and III

There are more than 15 unitary features in Indian Constitution some of them are

Single Constitution for State and Centre

Single Citizenship

Integrated Judiciary.

Q89. Answer: (c) The President of India

• Article 360 states that if the President is convinced that a situation has arisen whereby the financial stability or any part thereof is threatened, President may declare a state of financial emergency.

• Article 360 of the Indian Constitution empowers the President of India to proclaim a Financial Emergency.

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

Organism	Feature of fisson
Amoeba	It has no definite shape so its cell division can take place in any plane it is called irregular binary fission.
Leishmania	It is a whip-like structure at one end of cell hence binary fission occurs in a definite orientation.
Plasmodium	A cell divided into many cells during reproduction in Plasmodium by multiple fission

Q91. Answer: (b) Dividing capacity

Meristem is the tissue in the most plants containing undifferentiated cells found in zones of the plant where growth can take place.

A group of cells which are similar in origin, similar in structure and similar in function are called Permanent tissue.

Dividing capacity is the basis of classifying various plant tissues as meristematic tissue and permanent tissue.

Q92. Answer: (b) Manoj Sinha

• The project DARPAN (Digital Advancement of Rural Post Office for a New India) launched by Minister of Communications Shri. Manoj Sinha in December 2017.

• It is to improve the quality of service, add value to services and achieve financial inclusion of un-banked rural population.

Q93. Answer: (c) Nagas

Parasitic plants are often referred to as curious plants, as they steal their nutritional needs from the host.

Gleadovia Konyakianorum is a holoparasite (complete parasite) plant that derives its entire nutritional requirement from the host plant which is a Strobilanthes species white in colour.

Naga is a vaguely defined umbrella term for several indigenous communities in North-East India and Upper Burma.

Q94. Answer: (c) Navi Mumbai

The centre to be built is Global IT centre in Belapur in Navi Mumbai. It will be the largest innovation centre by any financial services company in the country, the official claimed.

Q95. Answer: (d) New Delhi

To deal with cyber crimes such as financial frauds, circulation of communal and pornographic contents, the Union Home Ministryplanned to set up an apex coordination centre and has asked States to establish a similar mechanism in every district.

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Q96. Answer: (c) 24

Concept:

• Force: Force is a push or pull on an object. A force can cause an object to accelerate, slow down, remain in place, or change shape.

Force exerted = mass x acceleration

$F = m \times a$

Acceleration = (Final velocity(v) - Initial velocity(u))/ time

$a = (v - u)/t$

Where F is the force exerted on the body, m is mass of the body, a is the acceleration of the body, v is final velocity, u is initial velocity and t s time.

Calculation:

Given,

Mass of body = 6 kg.

Change in velocity = (18 - 6) = 12 m/s

Time= 3 sec

Acceleration = 12/ 3 = $4 m/s^2$

Force = mass × acceleration

Force = 6 × 4 = 24 Newton.

Hence the correct option is 24 Newton

Q97. Answer: (b) power

The correct answer is Power.

Power:

• Power is defined as the rate of doing work or the rate of transfer of energy.

• It can also be said as the amount of work done in a given amount of time.

• SI unit of power is represented by Watt (W). Formulae for power is given by p = W /t.

Average Power = Total energy consumed/ Total time taken

$P_{(avg)} = \Delta W/ \Delta t$

• Power is the rate of doing work and the amount of energy transferred per unit time.

• It is a scalar quantity.

• The unit is joule per second (J/s).

Q98. Answer: (b) 70

The correct answer is option 2 i.e 70 %

About 75% of the Earth's surface is water-covered and the oceans hold for about 96.5% of all Earth's water.

Water also exists in the air as water vapour in rivers and lakes, icecaps and glaciers and in the ground as soil moisture.

Components	Important information
Lithosphere	It is the outer part of the Earth and other celestial bodies. It covers the rocky part of the body. On Earth, it is considered as the crust and the rigid upper mantle part.
Hydrosphere	It is the component of the Earth which covers about 70% of the surface. It includes the oceans, seas, lakes, ponds, rivers, and streams.
Biosphere	It is the ecosystem that contains all the living beings and their relationship with nature. The term "Biosphere" was coined by geologist Eduard Suess in 1875.
Atmosphere	It is kind of a blanket that contains gases and surrounds the Earth from outside. Where we live, we breathe, we act and we do daily activities are all part of the atmosphere.

Q99. Answer: (d) A, B and C

World Champion Lewis Hamilton raced in Formula One for Mercedes.

In 2018 IPL auctions, Mumbai Indians retained Hardik Pandya.

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Chen Meng won the Women's Singles title at the Seamaster 2017 ITTF World Tour Grand Finals in Astana Kazakhstan in December 2017.

Q100. Answer: (a) Mozilla Firefox

- Mozilla Firefox is not an operating system.
- Mozilla Firefox is a free open-source web browser developed by Mozilla Foundation. Firefox is available for Windows, macOS, Linux and BSD operating systems.
- A web browser is a software application for accessing the information on the World Wide Web.

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