SSC CHSL Previous Paper 1 (Held On: 4 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, four words are given out of which one word is correctly spelt. Select the correctly spelt word

(a) Stridancy
(b) Stridensy
(c) Stridansy
(d) Stridency

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

Life is never meant to

A - country like India

B - be easy, especially if you

C - live in a developing

(a) BAC
(b) ACB
(c) BCA
(d) ABC

Q3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select “no improvement”.

We sat there (enjoy) the view.

(a) Enjoyed
(b) Enjoying
(c) Enjoys
(d) No improvement

Q4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select “no improvement”.

We sat on the floor to eat dinner and he (appreciate) the fresh food my mother served.

(a) Had appreciated
(b) Appreciated
(c) Will appreciate
(d) No improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Concerned with beauty or the appreciation of beauty

(a) Foul
(b) Aesthetic
(c) Hideous

(d) Gross

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

A warning of impending danger

(a) Naive
(b) Monition
(c) Obtuse
(d) Daft

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

Pull the wool over someone's eyes

(a) To protect someone.
(b) To keep oneself warm.
(c) Deceive someone by telling lies.
(d) To pretend to be blind to the other person's bad behaviour

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

After one's own heart

(a) Sharing or having one's tastes or views.
(b) Infatuation with a person which is not reciprocated.
(c) Memorise some thing by heart
(d) Don’t have the courage to do something bad for a good person

Q9. 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) Commiety
(b) Committee
(c) Comittee
(d) Commitee

Q10. 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.

“I know her well,” said Manisha.

(a) Manisha said that she knew her well.
(b) Manisha said if she knows her well.
(c) Manisha said that she knows her.
(d) Manisha says that she knew her well

Q11. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

She will finish the thesis in a fortnight.

(a) The thesis would be finished in a fortnight by her.
(b) The thesis will finished by her in a fortnight.
(c) The thesis will be finished by her in a fortnight.
(d) A fortnight is required to finish the thesis.

Q12. Rearrange the parts of the sentence in correct order.

All the sound reasons

P : ever given for conserving

Q : to the conservation of wildlife

R : other natural resources apply

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

Q13. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word

Articulate

(a) Unclear
(b) Enunciate
(c) Eloquent
(d) Coherent

Q14. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Heed

(a) Care
(b) Caution
(c) Attention
(d) Neglect

Q15. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Discreet

(a) Described
(b) Careful
(c) Rash
(d) Mundane

Q16. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Hybrid

(a) Homogeneous
(b) Composite
(c) Pure
(d) Love

Q17. In the following question, the sentence is given with blanks to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Sun is a _____ perfect sphere of hot plasma, with an internal convective motion that generates a magnetic field.

(a) Nearly
(b) Near
(c) About
(d) More

Q18. 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.

She jumped _____ the bar table.

(a) upon
(b) up
(c) in
(d) into

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Q19. 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'.

Acceptance is not about allowing everything to occur or to go on, (1)/neither it is related to passivity and weakness, (2)/nor is it about confirmation or mediocrity. (3)/No error (4)

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

Q20. 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'.

Due to the (1)/snow the (2)/marks was unrecognisable. (3)/No error (4)

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

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.

Now, what exactly does big business want? Though they cite some ____ worded performance indicators to compile the index, the true intention appears to be something __. They want land at throwaway prices even __ it is fertile agriculture land; they want licenses to be issued immediately even if the proposed activities are likely to result in environmental __; they want labour laws to be favourable to them so it becomes easy to hire ____ fire and exploit workers; and they want the government to respond favourably to their 'bailout' demands from time to time so they can transfer their risk on to taxpayers, notwithstanding the fact that they enjoyed their profits during their heyday.

Q21. They cite some _____ worded performance

(a) Cleverly
(b) Cleverer
(c) Cleverest
(d) Cleverness

Q22. Something _____. They want land at

(a) Other
(b) Extra
(c) Added
(d) Else

Q23. Prices even _____ it is fertile agriculture land;

(a) If
(b) Then
(c) But
(d) Also

Q24. Environmental _____; they want labour laws

(a) Degrade
(b) Degrading
(c) Degraded
(d) Degradation

Q25. easy to hire _____ fire and exploit

(a) And
(b) If
(c) Thus

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(d) So

GENERAL INTELLIGENCE

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

Train : Track ? ? : ?

(a) Car : Four wheeler
(b) Aeroplane : Fly
(c) Truck : Road
(d) Car : Speed

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

53 : 35 ? ? : ?

(a) 37 : 73
(b) 42 : 22
(c) 16 : 62
(d) 54 : 43

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

PAL : RDP ? MRF : ?

(a) FAJ
(b) KUC
(c) OUJ
(d) RPT

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

(a) Reptile - Lizard
(b) Mammal - Deer
(c) Mammal - Elephant
(d) Rodent - Rabbit

Q30. In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) 20 - 30
(b) 35 - 45
(c) 45 - 55
(d) 25 - 30

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

(a) RQP
(b) XWV
(c) ZYX
(d) AZX

Q32. From the given alternatives, according to dictionary, which word will come at THIRD position?

1. Chimney
2. Cherry
3. Childish
4. Chess
5. Chest

(a) Chest
(b) Childish
(c) Chimney

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(d) Chess

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

19, 9, 28, 37, 65, ?

(a) 99
(b) 97
(c) 102
(d) 113

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

I, L, O, R, ?

(a) S
(b) T
(c) U
(d) V

Q35. Present ages of Ankur and his sister are in the ratio of 4 : 3. After 6 years ratio of ages of Ankur's sister and his brother will be 3 : 2. If the present age of his brother is 32 years, then after 3 years what will be the age (in years) of Ankur?

(a) 71
(b) 68
(c) 70
(d) 65

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

STATEMENT

(a) Men
(b) Same
(c) Start
(d) State

Q37. In a certain code language, "FRAME" is written as "IUDPH". How is "ROYAL" written in that code language?

(a) XVTGM
(b) MRDXO
(c) XIDPH
(d) URBDO

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

15 - 6 + 10 × 3 ÷ 2 = ?

(a) 24
(b) 9
(c) 2
(d) 8

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

12 + 10 - 28 ÷ 7 × 4 = 48

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

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Q40. If -4 $ 1 = 4, 7 $ - 7 = 49 and 3 $ 1 = -3, then find the value of -8 $ - 5 = ?

(a) -1
(b) 92
(c) -40
(d) -69

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

ABABAbab, ABABabaB, ABAbabAB, ABabaBAB, AbabABAB, _____.

(a) aBABABab
(b) abaBABAB
(c) ABABAbab
(d) ABABabaB

Q42. A hiker walks 2 km South, then he turns West and walks for 4 km, then he turns North and walks for 5 km, then he turns to his right and walks for 4 km. Where is he now with respect to his starting position?

(a) 7 km North
(b) 3 km North
(c) 3 km South
(d) 7 km South

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: No spaghetti are noodles.

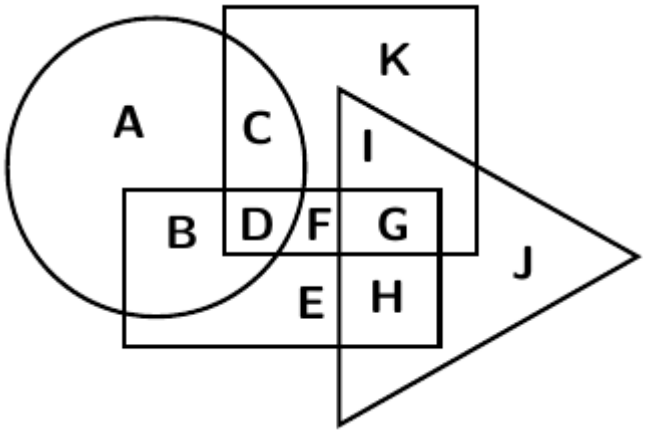
Statement II: Some food are spaghetti.

Conclusion I: All noodles are food.

Conclusion II: All food are noodles.

(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 Plumbers, circle represents Athletes, triangle represents Gamers and square represents Cricketers. Which set of letters represents those who are Athletes as well as Cricketers?



(a) CD
(b) AB
(c) FG
(d) EH

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

COT, DQU, ESV, FUW, ?

(a) GWY
(b) GVX
(c) GWX
(d) GVY

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

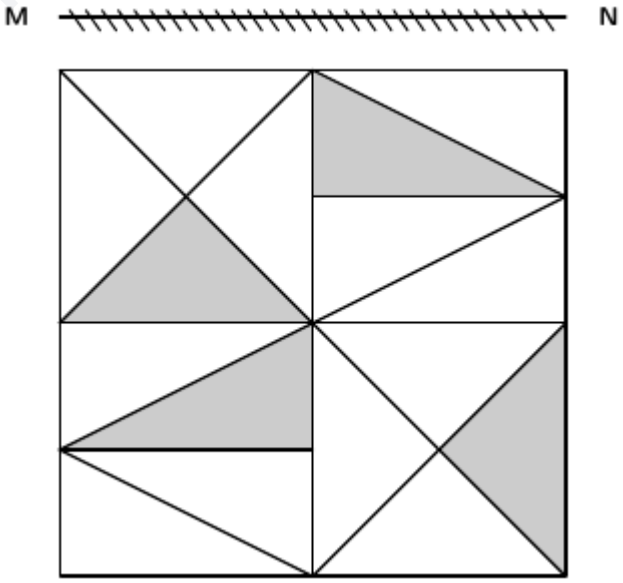
49, 46, 43, 40, ?, 34

(a) 38
(b) 37
(c) 36
(d) 39

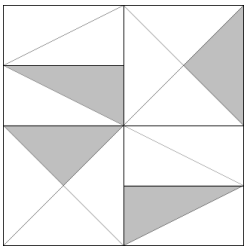
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (1, 11, 1111)
(b) (2, 22, 4444)
(c) (4, 44, 4444)
(d) (8, 88, 8888)

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

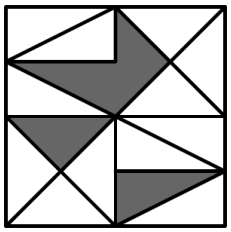


(a)

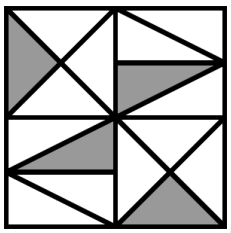


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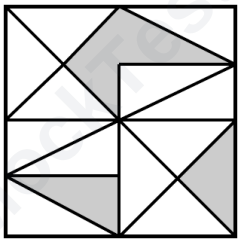
(b)



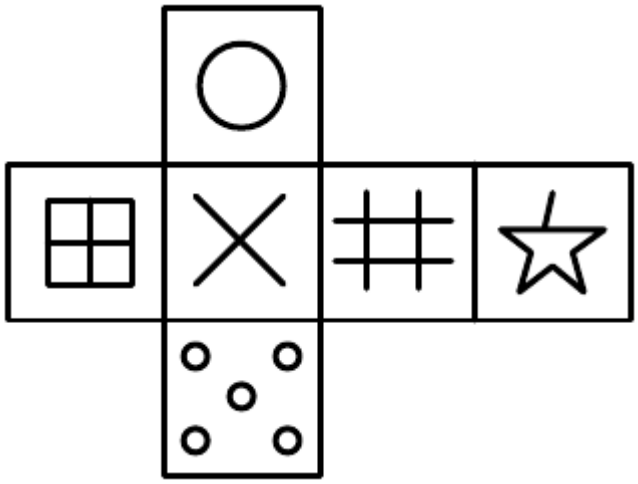
(c)



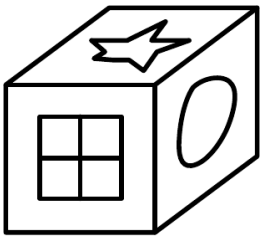
(d)



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

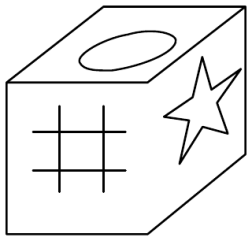


(a)

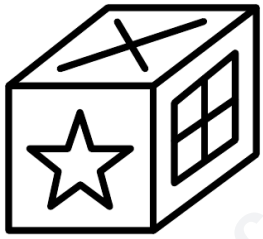


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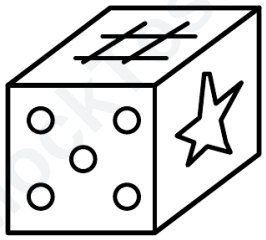
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given matrices. The column 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 'L' can be represented by 21, 33 etc and 'Z' can be represented by 56, 98 etc. similarly, you have to identify the set for the word 'TOMB'.

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

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

(a) 77, 69, 43, 22
(b) 11, 88, 34, 55
(c) 42, 66, 12, 58

(d) 30, 65, 24, 65

QUANTITATIVE APTITUDE

Q51. Find the value of {(49)^(3/2) + (49)^(- 3/2)}

(a) 117549/343
(b) 117550/343
(c) 117659/343
(d) 117650/343

Q52. Calculate the total number of prime factors in the expression $(4)^{11} \times (5)^5 \times (3)^2 \times (13)^2$.

(a) 30
(b) 31
(c) 33
(d) 32

Q53. Which of the following is the CORRECT rationalized form of $15/(\sqrt{5} + 2)$?

(a) $5\sqrt{5} - 6$
(b) $5\sqrt{5} - 30$
(c) $15\sqrt{5} - 30$
(d) $45\sqrt{5} - 30$

Q54. Determine the value of 'x', if $x = ((943 + 864)^2 - (943 - 864)^2)/((1886 \times 1728))$.

(a) 1
(b) 4
(c) 79
(d) 1789

Q55. Which of the following options is/are CORRECT about the similarity of the two triangles?

(a) The corresponding sides are proportional to each other.
(b) The corresponding angles are equal.
(c) The corresponding sides may or may not be equal to each other.
(d) All option are correct.

Q56. If the height of an equilateral triangle is $2\sqrt{3}$ cm, then determine the area (in cm^2) of the equilateral triangle.

(a) 6
(b) $2\sqrt{3}$
(c) $4\sqrt{3}$
(d) 12

Q57. Length and breadth of a rectangle are increased by 10% and 20% respectively. What will be the percentage increase in the area of rectangle?

(a) 30%
(b) 32%
(c) 28%
(d) 33%

Q58. The ratio of three numbers is 3 : 6 : 8. If their product is 9216, then what is the sum of the three numbers?

(a) 96
(b) 72
(c) 144
(d) 68

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Q59. Rohit started a business with Rs. 75000 and after some months Simran joined him with Rs. 60000. If the profit at the end of the year is divided in the ratio 3 : 1, then after how many months did Simran join Rohit?

(a) 7
(b) 6
(c) 8
(d) 4

Q60. A boy bought 50 chocolates for Rs. 1000. If the average price of 30 chocolates is Rs. 25, then what is the average price (in Rs.) of the remaining chocolates?

(a) 10
(b) 12.5
(c) 15
(d) 17.5

Q61. The simple interest on a sum for 8 years is Rs. 47500. The rate of interest for the first 5 years is 10% per annum and for the next 3 years is 15% per annum. What is the value (in Rs.) of sum?

(a) 50000
(b) 60000
(c) 45000
(d) 62500

Q62. Selling price of a chair is Rs. 1386. If loss percentage is 23%, then what is the cost price (in Rs.) of the chair?

(a) 1600
(b) 1800
(c) 1900
(d) 1067

Q63. Marked price of a computer is Rs. 48000 and discount is 13%. What is additional discount (in percentage) should be offered to the customer to bring the price of computer to Rs. 39672?

(a) 10
(b) 5
(c) 8
(d) 9

Q64. Which of the following statement(s) is/are TRUE?

(I) √144 × √36 < cbrt125 × √121

(II) √324 + √49 > cbrt216 × √9

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

Q65. Pipe X can fill a tank in 20 hours and Pipe Y can fill the tank in 35 hours. Both the pipes are opened on alternate hours. Pipe Y is opened first, then in how much time (in hours) the tank will be full?

(a) 269/11
(b) 280/11
(c) 179/7
(d) 172/7

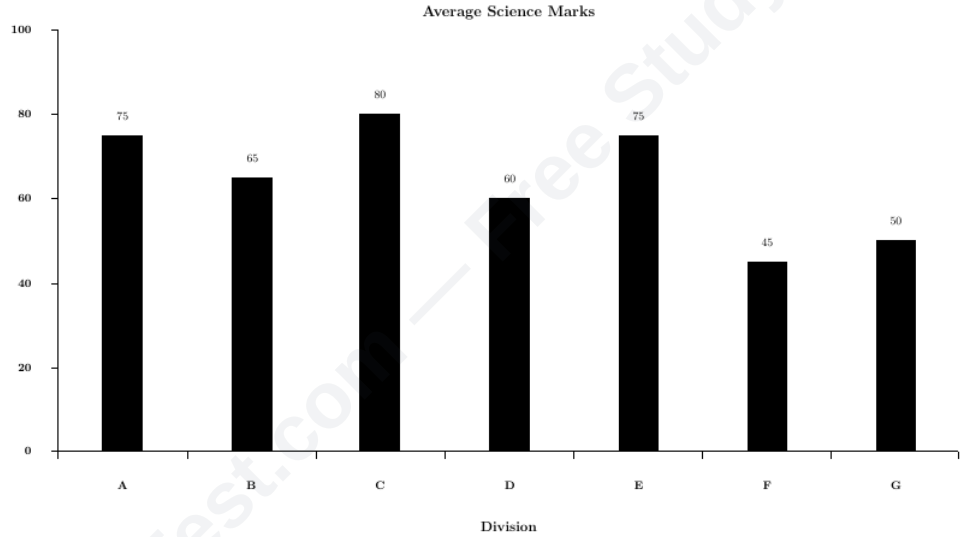
Q66. A train is moving at the speed of 54 km/hr. how many seconds it will take to cover a distance of 450 metres?

(a) 60
(b) 30
(c) 45
(d) 36

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Directions

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



Q67. Which division scored the second lowest marks?

(a) F
(b) B
(c) G
(d) D

Q68. What is the ratio of average marks scored by Division D to Division A?

(a) 4 : 5
(b) 5 : 4
(c) 4 : 7
(d) 7 : 4

Q69. Marks of division F were lesser than that of Division C by _____

(a) 35%
(b) 47.25%
(c) 45%
(d) 43.75%

Q70. If all students of Division A lost 5 marks each for indiscipline then their new average marks would decrease by how much?

(a) 5%
(b) 11.11%
(c) 6.67%
(d) 10%

Q71. If the length of one side and the diagonal of a rectangle are 7 cm and 25 cm respectively, then find its perimeter (in cm).

(a) 24
(b) 36
(c) 62
(d) 72

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Q72. If a regular polygon has 5 sides then the measure of its interior angle is greater than the measure of its exterior angle by how many degrees?

(a) 60°
(b) 36°
(c) 90°
(d) 100°

Q73. Find the volume (in cm^3) of a cube of side 3.5 cm.

(a) 69.845
(b) 42.875
(c) 19.765
(d) 11.165

Q74. ΔXYZ is right angled at Y. If angle X = 60°, then the find the value of (sec Z + 2/√3).

(a) 4/√3
(b) (√2 + 2)/2√2
(c) 7/2√3
(d) 4/2√3

Q75. In ΔUVW measure of angle V is 90°. If tan U = 12/5, and UV = 10 cm, then what is the length (in cm) of side VW?

(a) 26
(b) 24
(c) 25
(d) 5

GENERAL AWARENESS

Q76. The competitive position of a company can be improved by _____.

(a) increasing the selling price
(b) reducing the margin of profit
(c) ignoring competitors
(d) understanding and fulfilling customers needs

Q77. Deficit financing means the government borrows money from the _____.

(a) International Monetary Fund
(b) Ministry of Finance
(c) Reserve Bank of India
(d) World Trade Organization

Q78. Which of the following information is found in Ashoka's inscriptions?

(a) Life story
(b) Internal policy
(c) Foreign policy
(d) All option are correct.

Q79. Bahadur Shah, the ruler of Gujarat was killed in a conflict with which of the following?

(a) Dutch
(b) English
(c) Portuguese
(d) French

Q80. Which part of the Earth has the abundance of nickel and iron?

(a) SIAL
(b) SIMA
(c) NiFE

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(d) No option is correct.

Q81. Konkan coast is stretched from _____.

(a) Goa to Kochi
(b) Goa to Diu
(c) Kerala to Andhra
(d) Goa to Mumbai

Q82. Which of the following pair is NOT matched correctly?

(a) Bharatanatyam - Tamil Nadu
(b) Kathakali - Karnataka
(c) Odissi - Odisha
(d) Kuchipudi - Andhra Pradesh

Q83. How much water has been allowed to India for irrigation, power generation and transport purposes from Indus river?

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

Q84. Who among the following was NOT one of the recipients of Dronacharya Award for the year 2017?

(a) R. Gandhi
(b) Prashant Singh
(c) Heera Nand Kataria
(d) Sanjay Chakraborty

Q85. China has the longest border with which of the following country?

(a) Russia
(b) India
(c) Myanmar
(d) Mongolia

Q86. Which of the following statement(s) is/are CORRECT?

I. Bakelite is a good conductor of heat.
II. Bakelite is a poor conductor of electricity.
III. Bakelite can be softened by heating.

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

Q87. Which of the following has minimum ignition temperature?

(a) Petrol
(b) Plastic
(c) Wood
(d) Paper

Q88. Which Article of Indian Constitution empowers Indian Parliament to amend the constitution?

(a) Article 368
(b) Article 252
(c) Article 254
(d) Article 256

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Q89. Which part of Indian constitution deals with Union Territories?

(a) Part VI
(b) Part VII
(c) Part VIII
(d) Part IX

Q90. The rhythmic contraction of the lining of muscles of canal to push the food along the gut is called _____.

(a) Peristalsis
(b) Facilitation
(c) Guttation
(d) No option is correct.

Q91. Which of the following represents the pair of sex chromosomes in men?

(a) XY
(b) XX
(c) YY
(d) No option is correct.

Q92. How much amount has been reserved for the 'National Biopharma Mission' named 'i3' by the Government of India?

(a) USD 250 million
(b) USD 350 million
(c) USD 500 million
(d) USD 150 million

Q93. Scientists of which country have developed working human skeletal muscle from stem cells in the laboratory for the first time?

(a) China
(b) Japan
(c) India
(d) United States of America

Q94. In July 2017, how much revised cost was approved for the cost Socio Economic and Caste Census 2011 (SECC 2011)?

(a) Rs. 4893 crore
(b) Rs. 7983 crore
(c) Rs. 9893 crore
(d) Rs. 10,000 crore

Q95. From May 2017, the Real Estate Act has come into effect. Under the Act, the Regulatory Authorities are required to dispose of complaints in how many days?

(a) 60
(b) 30
(c) 45
(d) 90

Q96. A body of mass 4 kg accelerates from 15 m/s to 25 m/s in 5 seconds due to the application of a force on it. Calculate the magnitude of this force (in N).

(a) 32
(b) 8
(c) 16
(d) 64

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Q97. During _____ motion of an object along a straight line, the change in velocity of the object for any time interval is zero.

(a) Linear
(b) Translational
(c) Equilibrium
(d) Uniform

Q98. The tropical rainforests _____.

(a) are dry and hot
(b) are in the coastal regions only
(c) are mostly covered in snow
(d) get plenty of rainfall

Q99. Which of the statements given below are correct?

A) Valentino Rossi won the Motorcycle race 2017 Dutch TT MotoGP.
B) United Kingdom hosted the Table Tennis 2017 ITTF Women's World Cup.
C) In 2017, Glenn Maxwell captained the IPL team Kings XI Punjab.

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

Q100. In Microsoft Word, under character formatting _____ is used to underline some particular text.

(a) Font style
(b) Underline
(c) Effects
(d) Size

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) Stridency

The solution is in Hindi. Read it online.

Q2. Answer: (c) BCA

The correct answer is 'BCA'

Key Points

• The last word of the fixed sentence is 'to' hence we know that we need a verb to make an infinitive.
• There are two verbs which are present in sentence B and C i.e. 'be' and 'live' if we connect this sentence with 'B' then it makes a

coherent sentence.

• Similarly, 'you' is the subject for this we need a verb which is written in sentence 'C'.

• So, 'C' will be the first sentence after the given sentence.

Therefore ,the correct sentence is- Life is never meant to be easy, especially if you live in a developing country like India.

Q3. Answer: (b) Enjoying

The correct answer is 'Enjoying'

Key Points

• According to grammar, 'sat' is an intransitive verb

• For further elaboration we can use the object complement which can be a noun/noun/phrase/noun clause/adjective.

• 'There' is an adverb of place.

• Read the sentence like this now- 'We sat' after sitting what they are doing?

• The answer would be 'enjoying the view' hence we need a gerund instead of a verb.

• So according to above explanation, the given phrase is to be replaced with 'Enjoying'

Therefore, the correct sentence is- We sat there enjoying the view.

Q4. Answer: (b) Appreciated

The correct answer is 'Appreciated'

Key Points

• According to grammar, we need to follow the parallelism if the verb/noun/adjective is joined with the coordinating conjunction 'and'.

• In the given sentence, the verb 'sat' is joined with the conjunction 'and' hence the same type of verb is to be used i.e. past participle.

• So according to the above explanation the given phrase bracketed part is to be replaced with 'Appreciated'

Therefore, the correct sentence is- We sat on the floor to eat dinner and he appreciated the fresh food my mother served.

Q5. Answer: (b) Aesthetic

The solution is in Hindi. Read it online.

Q6. Answer: (b) Monition

The solution is in Hindi. Read it online.

Q7. Answer: (c) Deceive someone by telling lies.

The solution is in Hindi. Read it online.

Q8. Answer: (a) Sharing or having one's tastes or views.

The solution is in Hindi. Read it online.

Q9. Answer: (b) Committee

The solution is in Hindi. Read it online.

Q10. Answer: (a) Manisha said that she knew her well.

The correct answer is 'Manisha said that she knew her well'

Key Points

• The given sentence is 'Direct speech' this we can see from the inverted commas.

• Before changing the direct speech following things should be kept in mind.

• The tense will change in the following way.

• Present simple tense→ Past simple tense

• Past simple tense→ Past perfect tense.

• The given sentence is in the present simple tense hence it will change into the past simple tense.

• The verb 'know' becomes 'knew' and the 'that' conjunction will be used.

So according to this, the correct sentence is→ Manisha said that she knew her well.

Q11. Answer: (c) The thesis will be finished by her in a fortnight.

The correct answer is 'The thesis will be finished by her in a fortnight'

Key Points

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• According to the rule of Active and Passive voice, when we do transition the tense of the sentence doesn't change.

• Also, the subject of the sentence becomes the object and the object of the sentence becomes the subject.

• In the given sentence, the subject is 'she' and the object is 'thesis' and the tense is the future tense.

• To change it into passive voice we use 'be + V3'

Therefore, the correct answer is- The thesis will be finished by her in a fortnight.

Q12. Answer: (a) PRQ

The correct answer is 'PRQ'

Key Points

• In the fixed sentence, the last word is 'reasons' which is a noun.

• 'sound' here is an adjective that means 'in good condition' and it is qualifying the noun hence for the noun we need a verb which is written in the sentence P hence it will the first sentence.

• The last word in sentence P is 'conserving' after this we need an object which is going to be the noun and it is written in the sentence 'R' which is 'natural resources'

• So, the correct answer is 'Option 1'

Therefore, the correct sentence is- *All the sound reasons ever given for conserving other natural resources apply to the conservation of wildlif*e.

Q13. Answer: (a) Unclear

The solution is in Hindi. Read it online.

Q14. Answer: (d) Neglect

The solution is in Hindi. Read it online.

Q15. Answer: (b) Careful

The solution is in Hindi. Read it online.

Q16. Answer: (b) Composite

The solution is in Hindi. Read it online.

Q17. Answer: (a) Nearly

The correct answer is 'Nearly'

Key Points

• A description is being given about Sun.

• “Nearly” gives the closest essence as to describe the closeness to the term “perfect”.

• Also, in the given blank we need an adverb which is going to qualify an adjective 'perfect'.

• For example- The audience was nearly all men.

• So, according to the above explanation the correct answer is 'Nearly

Therefore, the correct sentence is- Sun is a nearly perfect sphere of hot plasma, with an internal convective motion that generates a magnetic field.

Additional Information

• Near is not agreeing with 'perfect' and is also generally used to describe proximity and distances.

• For example- I left the box near the door.

• More 'perfect' is grammatically incorrect as it is used for comparison while here sun is the only subject

• For example- You like more sugar in your tea than I do.

• 'About' cannot fit as it cannot have “a” before it. We don’t say “Sun is a about…"

• For example- Do you know anything about cricket?

Q18. Answer: (a) upon

The correct answer is 'upon'

Key Points

• In the given context, it is talking about jumping of a lady.

• Upon- Used to show that one object has been placed on other object.

• For example- She was seated upon a throne.

• Jumping up, into and in cannot be used as a table being a base, one cannot go inside it or jump upward. One can only jump across it, on it or upon it.

• So, according to above explanation 'Upon' is the best suitable choice.

Therefore, the correct sentence is- She jumped upon the bar table.

Additional Information

• Let's see the usage of other options.

• Up- Used to talk about a higher position or movement to a higher position

• For example- He was up a ladder painting.

• In- Used to indicate location or position within or inside something

• For example- They have a house in the country.

• Into- Used to a position in or inside something

• For example- She came into the room.

Q19. Answer: (b) 2

The correct answer is 'Option 3'

Key Points

• In part 3 of the sentence, the usage of 'nor is it' is incorrect Instead, use 'nor it is'

• According to grammar, parallelism should be followed whenever we use correlative conjunctions. In the given sentence, 'neither...nor' correlative conjunction is used.

• For example- You neither know how to sing nor how to dance.

• We can see that the with 'neither it is' has been used so with 'nor it is' should be used.

• So, according to above explanation it is clear that 'the error lies in 3rd part of the sentence'.

Therefore, the correct sentence is- Acceptance is not about allowing everything to occur or to go on, neither it is related to passivity and weakness, nor it is about confirmation or mediocrity.

Q20. Answer: (c) 3

The correct answer is '3' i.e. error lies in this part of the sentence.

Key Points

• In part 3 of the sentence, the use of 'was' is incorrect Instead, use 'were'

• According to the rule of subject-verb agreement, the verb should be plural if the subject of the sentence is plural.

• For example- We were happy with the review of our first movie.

• In the given sentence, the subject is 'marks' hence the verb should be 'were'

• 'Due to' is a preposition and 'the snow' is the prepositional object hence there is no effect on the verb of 'the snow'.

So the correct sentence is- Due to the snow the marks were unrecognisable.

Q21. Answer: (a) Cleverly

The correct answer is 'Cleverly'

Key Points

• In the given blank, we need an adverb to qualify an adjective that is just written after the blank.

• The correct sequence is→ Adverb + Adjective + Noun.

• So the correct sentence is - They cite some cleverly worded performance.

Q22. Answer: (d) Else

The correct answer is 'Else'

Key Points

• 'Something else' is a phrase that means 'a remarkable person or thing'

• According to grammar, We use 'else' to exclude something i.e. 'besides'.

• According to the meaning of the sentence we need to exclude the true intention of the person.

• So, according to above explanation, 'Else' is the correct answer.

Therefore, the correct sentence is→ The true intention appears to be something else.

Q23. Answer: (a) If

The correct answer is 'if'

Key Points

• The meaning of the phrase 'even if'→ to indicate that a particular fact does not make the rest of your statement untrue.

• Hence, we need to convey this meaning i.e. to contrast something.

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• For example- Cynthia is not ashamed of what she does, even if she ends up doing something wrong.
• So, according to above explanation, 'If' is the best suitable option.
Therefore, the correct sentence is- Prices even if it is fertile agriculture land;

Q24. Answer: (d) Degradation

The correct answer is 'Degradation'
Key Points
• Before the blank, an adjective use i.e. 'Environmental'.
• For this adjective we need to write a noun which is followed by an adjective 'environmental'.
• 'Degrade' is a verb.
• 'Degrading' is a present participle.
• 'Degraded' is a past participle.
• 'Degradation' is a noun.
• So, according to above explanation, 'Degradation' is the best suitable option.
Therefore, the correct sentence is- 'Environmental Degradation; they want labour laws.'

Q25. Answer: (a) And

The correct answer is 'and'
Key Points
• There are verbs before and after blank.
• To connect two words, 'And' Conjunction is used
• A conjunction is a word that is used to connect words, phrase and clauses.
• For example- Rachel plays the piano and sings.
• So, according to above explanation 'And' is the best suitable option.
Therefore, the correct sentence is 'easy to hire and fire and exploit'.
Additional Information
• Let's see the use of other option also
• If- used to say that one thing can, will or might happen or be true.
• Thus- used to indicate a conclusion.
• So- to introduce clauses of result or decision.

Q26. Answer: (c) Truck : Road

Given → Train : Track
Train is related to Track as → Mode of transport of Train is Track
The table given below shows the correct relation that is required to represent similarity with the given word pair:-

Option	Vehicle	Mode of Transport	Wrong word in the Pair
1	Car	Road	So, 'Four wheeler' is the wrong word in the given Car : Four wheeler word pair
2	Aeroplane	Air	So, 'Fly' is not the correct word in the given Aeroplane : Fly word pair
3	Truck	Road	Correct word pair
4	Car	Road	So, 'Speed' is not the correct word in the given Car : Speed word pair

As can be seen clearly only Truck : Road shows the similar relationship as Train : Track. Since, Mode of Transport of Truck is Road.
Hence, the correct answer is "Truck : Road"

Q27. Answer: (a) 37 : 73

The Logic followed here is:-
Second number = Interchanged digits of the first number

In 53 : 35
Second number = 35 (i.e, in place of 5 → 3 and in place of 3 → 5)
Similarly,
In 37 : 73
Second number = 73 (i.e., in place of 3 → 7 and in place of 7 → 3)
Hence, the correct answer is "37 : 73".

Q28. Answer: (c) OUJ

The pattern followed here is:-
PAL is related to RDP as
Similarly, MRF is related to OUJ as
Hence, the correct answer is "OUJ".

Q29. Answer: (d) Rodent - Rabbit

Given:-
1) Reptile - Lizard → True (as lizard is a reptile)
2) Mammal - Deer → True (as deer is a mammal)
3) Mammal - Elephant → True (as elephant is a mammal)
4) Rodent - Rabbit → False (as rabbit is a lagomorph belonging to the class of mammals)
Therefore, Rodent-Rabbit is the odd word pair as rabbit is not a rodent.
Hence, the correct answer is "Rodent - Rabbit".

Q30. Answer: (d) 25 - 30

The logic followed here is:-
First term → Second term - 10
1) In 20 - 30
First term → 30 -10 = 20
2) In 35 - 45
First term → 45 - 10 = 35
3) In 45 - 55
First term → 55 - 10 = 45
4) In 25 - 30
First term → 30 - 10 = 20 ≠ 25
As can be seen that 25 - 30 doesn't follow the logic and is therefore, an odd pair.
Hence, the correct answer is "25 - 30".

Q31. Answer: (d) AZX

The pattern followed here is:-
As can be seen that AZX doesn't follow the same pattern as the other three letter cluster.
Hence, the correct answer is "AZX".

Q32. Answer: (a) Chest

The correct order of the given words as they would appear in an English dictionary is as follows:-
2. Cherry
4. Chess
5. Chest
3. Childish
1. Chimney
As can be seen the word that comes at third position is Chest.
Hence, the correct answer is "Chest".

Q33. Answer: (c) 102

The logic followed here is:-
Addition of two consecutive numbers in the series = next number in the series

19 + 9 = 28
9 + 28 = 37
28 + 37 = 65
37 + 65 = 102
Hence, the correct answer is "102".

Q34. Answer: (c) U

The pattern followed here is:-
Hence, the correct answer is "U".

Q35. Answer: (a) 71

According to the question,
Ratio of ages of Ankur's sister and his brother after 6 years → 3 : 2
So, let the ages of Ankur's sister and his brother after 6 years be 3x and 2x respectively.
Present age of Ankur's brother → 32 years
Age of Ankur's brother after 6 years → 32 + 6 = 38 years
Now, equating 2x = 38 (as the age of Ankur's brother after 6 years is 38)
x = 19
Present age of Ankur's sister → 3x - 6
(3 × 19) - 6 → 57 - 6 = 51
It is also given that the ratio of the present ages of Ankur and his sister is 4 : 3
So, let the present ages of Ankur and his sister be 4y and 3y respectively.
Now, equating 3y = 51 (as the present age of Ankur's sister is 51)
y = 17
Present age of Ankur → 4y
4y → 4 × 17 = 68
Age of Ankur after 3 years → 68 + 3 = 71
Hence, the correct answer is "71".

Q36. Answer: (c) Start

Given word → STATEMENT
1. Men → STATEMENT (it is possible to form the word)
2. Same → STATEMENT (it is possible to form the word)
3. Start → Letter 'R' is not present in the word STATEMENT therefore, it is not possible to form the word Start.
4. State → STATEMENT (it is possible to form the word)
It is clear from above that the word Start cannot be formed using the letters of the given word.
Hence, the correct answer is "Start".

Q37. Answer: (d) URBDO

The pattern followed here is:-
FRAME is coded as IUDPH
Similarly,
ROYAL is coded as URBDO
Hence, the correct answer is "URBDO"

Q38. Answer: (d) 8

Given:-
15 - 6 + 10 × 3 ÷ 2 = ?

Signs	•	•	×	÷
Code	×	÷	•	•

After replacing signs with their code in the given equation,
New equation → 15 × 6 ÷ 10 - 3 + 2 = ?

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Now, after applying BODMAS Rule, we get:-
15 × 6 ÷ 10 - 3 + 2
15 × 0.6 - 3 + 2
9 + 2 - 3
11 - 3 = 8
Hence, the correct answer is "8".

Q39. Answer: (d) × and -

Given:-
12 + 10 - 28 ÷ 7 × 4 = 48
Checking options one by one by interchanging signs:-
1) + and -
12 - 10 + 28 ÷ 7 × 4 = 48
Now, after applying BODMAS Rule, we get:-
12 - 10 + 28 ÷ 7 × 4 = 48
12 - 10 + 4 × 4 = 48
12 - 10 + 16 = 48
12 + 16 - 10 = 48
28 - 10 = 48
18 ≠ 48
Left hand side is not equal to right hand side.
2) + and ÷
12 - 10 + 28 ÷ 7 × 4 = 48
Now, after applying BODMAS Rule, we get:-
12 - 10 + 28 ÷ 7 × 4 = 48
1.2 - 28 + 7 × 4 = 48
1.2 - 28 + 28 = 48
1.2 + 28 - 28 = 48
29.2 - 28 = 48
1.2 ≠ 48
Left hand side is not equal to right hand side.
3) - and +
12 - 10 + 28 ÷ 7 × 4 = 48
Now, after applying BODMAS Rule, we get:-
12 - 10 + 28 ÷ 7 × 4 = 48
12 - 10 + 4 × 4 = 48
12 - 10 + 16 = 48
12 + 16 - 10 = 48
28 - 10 = 48
18 ≠ 48
Left hand side is not equal to right hand side.
4) × and -
12 + 10 × 28 ÷ 7 - 4 = 48
Now, after applying BODMAS Rule, we get:-
12 + 10 × 28 ÷ 7 - 4 = 48
12 + 10 × 4 - 4 = 48
12 + 40 - 4 = 48
52 - 4 = 48
48 = 48
Left hand side is equal to right hand side.
Hence, the correct answer is "× and -".

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Q40. Answer: (c) -40

The logic followed here is:-

First number × Second number → Product of the two number × (-1) = Result

Given:-

In -4 $ 1 = 4

-4 × 1 → -4 × (-1) = 4

In 7 $ - 7 = 49

7 × -7 → -49 × (-1) = 49

In 3 $ 1 = -3

3 × 1 →3 × (-1) = -3

Similarly,

In -8 $ - 5

-8 × -5 → 40 × (-1) = -40

Hence, the correct answer is "-40".

Q41. Answer: (b) abaBABAB

The pattern followed here is:-

One upper case letter is changed to a lower case letter and one lower case letter is changed to an upper case letter while moving from the right end to the left end in each term.

ABABAbab → ABABabaB → ABAbabAB → ABabaBAB → AbabABAB → abaBABAB

As can be seen clearly from the above that the next term in the given list is abaBABAB.

Hence, the correct answer is "abaBABAB".

Q42. Answer: (b) 3 km North

Given:-

1) A hiker walks 2 km South.

2) Then, he turns West and walks for 4 km.

3) Then, he turns North and walks for 5 km.

4) Then, he turns to his right and walks for 4 km.

5) Distance and direction of the hiker with respect to his starting position.

It is clear from the above diagram that the hiker is in the North direction which is 3 km away from his starting position.

Hence, the correct answer is "3 km North".

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

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

Conclusions:

I. All noodles are food → Doesn't follow (As no direct relationship is given between noodles and food. Thus, it is not definite that all noodles are food).

II. All food are noodles → Doesn't follow (As no direct relationship is given between food and noodles. Thus, it is not definite that all food are noodles).

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

Q44. Answer: (a) CD

According to the given information:-

Here the letters that are present in,

Rectangle that represents Plumbers are → B, D, E, F, G, and H

Circle that represents Athletes are → A, B, C, D

Triangle that represents Gamers are → I, G, H, J

Square that represents cricketers are → C, D, F, G, I, K

We can see that the shaded part in the diagram as well as the common letters of figure circle and square that are emboldened i.e. CD denotes the set of letters who are Athletes as well as Cricketers.

Hence, the correct answer is "CD".

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Q45. Answer: (c) GWX

The pattern followed here is:-

Hence, the correct answer is "GWX".

Q46. Answer: (b) 37

The logic followed here is:

Hence, the correct answer is " 37 ".

Q47. Answer: (b) (2, 22, 4444)

The logic used here,

Second Number → Using the first number twice.

Third Number → Using the second number twice.

Let's check each option,

1) (1, 11, 1111):

As per the logic,

First Number = 1

Second Number = 11

Third Number = 1111

2) (2, 22, 4444):

As per the logic,

First Number = 2

Second Number = 22

Third Number = 4444 → Doesn't satisfies the logic.

3) (4, 44, 4444):

As per the logic,

First Number = 4

Second Number = 44

Third Number = 4444

4) (8, 88, 8888):

As per the logic,

First Number = 8

Second Number = 88

Third Number = 8888

Here, we can see that only Option 2 doesn't satisfy the logic.

Hence, the correct answer is " (2, 22, 4444) ".

Q48. Answer: (a) [figure]

Below is the mirror image of the question figure.

Hence, the correct answer is " Option 1 ".

Q49. Answer: (c) [figure]

When the unfolded cube is folded, the pair of opposite faces are,

<=>

<=>

<=>

Now, let's check each option,

1)

→ Follows the pattern of opposite pairs of faces.

2)

→ Follows the pattern of opposite pairs of faces.

3)

→ It contradicts the pattern of opposite pairs of faces.

and

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are adjacent faces in this cube, which is not possible.

4)

→ Follows the pattern of opposite pairs of faces.

Here, we can see that only cube in Option 3 cannot be made.

Hence, the correct answer is " Option 3 ".

Q50. Answer: (a) 77, 69, 43, 22

Given → A letter is represented first by its row number and then by its column number.

Let's check each option,

1) 77, 69, 43, 22 → T, O, M, B

2) 11, 88, 34, 55 → F, P, I, V

3) 42, 66, 12, 58 → F, W, E, R

4) 30, 65, 24, 65 → I, R, F, R

Here, we can see that the set of word for TOMB is (77, 69, 43, 22).

Hence, the correct answer is " 77, 69, 43, 22 ".

Q51. Answer: (d) 117650/343

{(49)^(3/2) + (49)^(- 3/2)}

=> {$(7)^3$ + (7)^(- 3)}

=> 343 + 1/343

=> (117649 + 1)/343

=> 117650/343

Q52. Answer: (b) 31

$(4)^{11}$ × (5)^5 × $(3)^2$ × $(13)^2$

=> $(2^2)^{11}$ × (5)^5 × $(3)^2$ × $(13)^2$

=> $(2)^{22}$ × (5)^5 × $(3)^2$ × $(13)^2$

Therefore Total number of prime factors = Sum of the powers of the expression = 22 + 5 + 2 + 2 = 31

Q53. Answer: (c) 15√5 - 30

Concept used:

Rationalising the denominator involves removing all of the roots from the denominator of the fraction.

Calculations

15/(√ 5 + 2) × (√ 5 - 2)/(√ 5 - 2)

=> (15(√ 5 - 2))/((√ 5)² - (2)) = (15(√ 5 - 2))/(5 - 4)

=> (15(√ 5 - 2))/1 = 15√ 5 - 30

Therefore The correct answer is 15√5 – 30.

Q54. Answer: (a) 1

x = ((943 + 864)² - (943 - 864)²)/((1886 × 1728))

=> x = ((1807)² - (79)²)/((1886 × 1728))

=> x = ((1807 + 79)(1807--79))/((1886 × 1728))

=> x = ((1886 × 1728))/((1886 × 1728)) = 1

Q55. Answer: (d) All option are correct.

In similar triangles, the corresponding sides are proportional to each other.

In similar triangles, the corresponding angles are equal.

In similar triangles, the corresponding sides may or may not be equal to each other.

So all option are correct.

Q56. Answer: (c) 4√3

Given:

Height of equilateral triangle = 2√3 cm

Formula Used:

Height of equilateral triangle = (√3/2) × a
Area of equilateral triangle = (√3/4) × a²
Where, a = side of the equilateral triangle.
Calculation:
=> Height = (√3/2) × a
=> 2√3 = (√3/2) × a
=> a = (2√3) × (2/√ 3)
=> Side = 4 cm
=> Area of equilateral triangle = √3/4 × side²
=> √3/4 × 4² = 4√3 cm
Therefore Area of equilateral triangle = 4√3 cm².
Hence, the correct answer is Option 3).

Q57. Answer: (b) 32%

Percentage Increment in area of rectangle = I1 + I2 + (I1 × I2)/100
Percentage Increment in area of rectangle = 10 + 20 + (10 × 20)/100
Therefore Percentage Increment in area of rectangle = 30 + 2 = 32%

Q58. Answer: (d) 68

Let three numbers be a, b and c.
then a = 3k, b = 6k and c = 8k.
3k × 6k × 8k = 9216
=> k³ = 64
=> k = 4
Therefore Sum of three no. = a + b + c = 3k + 6k + 8k = 17k = 17 × 4 = 68

Q59. Answer: (a) 7

Given:
Amount that rohit invested = 75,000
Amount that simran invested = 60,000
Calculation:
Capital Ratio of Rohit and Simran
Ratio of profit = Ratio of Rohit's capital × time : Ratio of Simran's capital × time
=> 3 : 1 = 75000 × 12 : 60000 × t
=> 3 : 1 = 5 × 3 : t
=> 3/1 = 15/t
=> t = 5 months
Therefore Simran joins Rohit after = 12 - 5 = 7 months

Q60. Answer: (b) 12.5

Given:
CP of 50 chocolates = 1000
Calculation:
Average Price of remaining chocolates = (Remaining Price)/(Remaining chocolate)
Therefore Average Price of remaining chocolates = (1000 - 30 × 25)/(50 - 30) = 250/20 = 12.5

Q61. Answer: (a) 50000

Given:
Total SI for 8 Years = 47500
Formula used :
S.I. = (P × R × T)/100
Calculation:
=> 47500 = (P × 10 × 5)/100 + (P × 15 × 3)/100
=> 47500 = 50P/100 + 45P/100

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=> 47500 = 95P/100

=> 47500 = 19P/20

Therefore P = (47500 × 20)/19 = 2500 × 20 = 50000

Q62. Answer: (b) 1800

Given:

SP of a chair = 1386

Loss % = 23%

Calculation:

=> C.P of the chair × 77/100 = S.P. of the chair

=> C.P of the chair × 77/100 = 1386

Therefore C.P of the chair = 1386 × 100/77 = 1800

Q63. Answer: (b) 5

According to the questions,

=> 48000 × (100 - 13)/100 × (100 - Discount2)/100 = 39672

=> 48000 × 87/100 × (100 - Discount2)/100 = 39672

=> (100 - Discount2)/100 = 39672/48000 × 100/87

=> (100 - Discount2)/100 = 57/60

=> 100 - Discount2 = 19/20× 100

=> 100 - Discount2 = 95

Therefore Discount2 = 100 - 95 = 5%

Q64. Answer: (b) Only II

Checking 1^(st) Statement √144 × √36 < cbrt125 × √121

=> 12 × 6 < 5 × 11

=> 72 < 55

Condition of 1^(st) Statement is false.

Checking 2^(nd)Statement √324 + √49 > cbrt216 × √9

=> 18 + 7 > 6 × 3

=> 25 > 18

Condition of 2^(nd) Statement is true

So the answer is Only 2

Q65. Answer: (c) 179/7

Shortcut Trick

Total Work (LCM of 20, 35) = 140 units.

Efficiency: X = 7, Y = 4. 2-hour cycle (Y + X) = 4 + 7 = 11 units.

12 cycles (24 hours) = 12 × 11 = 132 units. Remaining = 140 − 132 = 8 units.

25^(th) hour (Pipe Y): 4 units filled. Remaining = 4 units. Time for X = 4/7 hours.

Total Time = 24 + 1 + 4/7 = 25 + 4/7 = 179/7 hours.

Therefore The correct answer is 179/7 hours.

Alternate Method

Pipe	Time (hrs)	Total Work	Efficiency
X	20	140	7
Y	35	4	

=> Total Capacity = LCM(20, 35) = 140 units.

=> Efficiency of X = 140 ÷ 20 = 7 units/hr.

=> Efficiency of Y = 140 ÷ 35 = 4 units/hr.

=> Since they work on alternate hours starting with Y:

=> Work in 1^(st) hour (Y) = 4 units; Work in 2^(nd) hour (X) = 7 units.

=> Total work in 2 hours = 4 + 7 = 11 units.

=> Work done in 12 such cycles (24 hours) = 12 × 11 = 132 units.

=> Remaining work = 140 − 132 = 8 units.

=> On 25^(th) hour, Y fills 4 units. Remaining = 8 − 4 = 4 units.

=> Time taken by X to fill last 4 units = 4/7 hours.

=> Total time = 24 + 1 + 4/7 = 179/7 hours.

Therefore The correct answer is 179/7 hours.

Additional Information

Alternate Day/Hour Concept

In alternate work, tasks are calculated in cycles. The order of pipes/workers significantly changes the total time if the work is not a perfect multiple of the cycle's total efficiency.

Pipes and Cisterns

Efficiency is inversely proportional to time. Filling pipes have positive efficiency, while leakage or outlet pipes have negative efficiency.

Q66. Answer: (b) 30

Speed = Distance/Time

=> 5/18 × 54 = 450/Time

Therefore Time = 450/15 = 30 sec

Q67. Answer: (c) G

45 is the lowest marks scored by F

So 50 is the 2^(nd) lowest marks that is scored by G.

Q68. Answer: (a) 4 : 5

Ratio of average marks = Marks scored by Div. D : Marks scored by Div. A

Therefore Ratio of average marks = 60 : 75 = 4 : 5

Q69. Answer: (d) 43.75%

Therefore Marks of division F were lesser than that of Division C by = (80 - 45)/80 × 100 = 43.75%

Q70. Answer: (c) 6.67%

Average marks of division A = 75

New average marks of division A = 75 - 5 = 70

Therefore % decrement = 5/75 × 100 = 100/15 = 6.67%

Q71. Answer: (c) 62

Given:

L = 7 cm, D = 25 cm and B = ?.

Formula used:

$D^2 = L^2 + B^2$

Calculation:

=> $25^2 = 7^2 + B^2$

=> $B^2 = 625 - 49 = 576$

=> $B^2 = 576$

=> B = 24

Therefore Perimeter of rectangle = 2(L + B) = 2(7 + 24) = 62 cm

Q72. Answer: (b) 36°

Number of sides, N = 5

Interior angle = [180° - (360° / number of side)]

Interior angle = 180° - 360°/N= 180° - 360°/5 = 180° - 72° = 108°

Exterior angle = 360°/N = 360°/5 = 72°

Therefore Difference of Interior angle and exterior angle = 108° - 72° = 36°

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Q73. Answer: (b) 42.875

Therefore Volume of cube = $(side)^3 = 3.5^3 = 42.875\ cm^3$

Q74. Answer: (a) 4/√3

angle X + angle Y + angle Z = 180°

=> 60° + 90° + angle Z = 180°

=> angle Z = 180° - 150° = 30°

Therefore sec Z + 2/√3 = sec 30° + 2/√3 = 2/√3 + 2/√3 = 4/√3

Q75. Answer: (b) 24

Given:

The measure of angle V is 90°

tan U = 12/5

UV = 10 cm

Concept used:

Concept of tangent

Calculation:

tan U = 12/5 = VW/UV

=> 12/5 = VW/10

=> VW = 24 cm

Therefore Option 2 is the correct answer.

Q76. Answer: (d) understanding and fulfilling customers needs

The correct answer is understanding and fulfilling customers' needs.

Key Points

• Competitive positioning is a marketing strategy that refers to how a marketing team can differentiate a company from its competitors.

• The position of the company depends on how the value it provides with goods and services compares to the value of similar goods and services in the market.

• The competitive position of a company can be improved by understanding and fulfilling customers' needs and demands since this helps the company to define service and cost requirements. (Hence, option 4 is correct)

Q77. Answer: (c) Reserve Bank of India

The correct answer is the Reserve Bank of India.

Key Points Deficit financing:

• Deficit financing means generating funds to finance the deficit which results from an excess of expenditure over revenue.

• The gap is covered by borrowing from the public through the sale of bonds or by printing new money.

• For developing countries like India, higher economic growth is a priority.

• Higher economic growth requires finances.

• With the private sector being shy of making a huge expenditure, the responsibility of drawing financial resources rests on the government.

• Often both the tax and non-tax revenues fail to mobilize enough resources just through taxes.

• The deficit is often funded through borrowings or printing new currency notes.

• Deficit financing affects investment adversely.

• When there is inflation in the economy employees demand higher wages to survive.

• If their demands are accepted it increases the cost of production which de-motivates the investors.

Important PointsReserve Bank of India (RBI)

• RBI was established in India on 1st April, in Kolkata in 1935 under the Reserve Bank Of India Act, 1934.

• It was set up on the recommendation of the Hilton Young Commission.

• RBI is the central bank of India and is responsible for the issue and supply of Indian currency.

• RBI is the regulatory body of the Indian Banking system and it is also managing a countries Payment system.

• RBI Headquarters:- Mumbai.

Additional InformationWorld Trade Organization (WTO)

• WTO was established in 1995.

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• It replaced the General Agreement on Tariffs and Trade (GATT) that had been established in 1948.

• WTO is headquartered in Geneva, Switzerland.

International Monetary Fund

• International Monetary Fund headquarters is located at Washington D. C in the United States. It was founded in 1944.

• International Monetary Fund is an Organization of 190 countries.

• It is working to secure financial stability, facilitate international trade, promote high employment and economic growth and reduce poverty around the world.

Ministry of Finance

• The Ministry of Finance is a ministry within the Government of India responsible for the country's economy and serves as the Treasury of India.

• It focuses on taxation, financial legislation, financial institutions, capital markets, central and state finances, and the Union Budget in particular.

Q78. Answer: (d) All option are correct.

The correct answer is All options are correct.

Key Points

• The most famous Mauryan ruler was Ashoka.

• He was the first ruler who tried to take his message to the people through inscriptions.

• The information found in Ashoka's inscriptions includes his life story, internal policy, foreign policy, his religious and moral prospects, Buddhism, and his animal and social welfare program.

• These inscriptions are dispersed throughout the areas of India, Nepal, and Pakistan.

• Ashoka's inscriptions are the first tangible evidence of Buddhism.

• There are 33 inscriptions in total and primarily classified into the following:

• Major rock edicts.

• Minor rock edicts.

• Separate rock edicts.

• Major pillar edicts.

• Minor pillar edicts.

• Most of Ashoka’s inscriptions were in Prakrit and were written in the Brahmi script.

• Prakrit inscriptions were written in Brahmi and Kharosthi scripts, which even a commoner could read and understand.

• The inscriptions found in the area of Pakistan are in the Kharoshthi script.

Important Points

• Maurya Dynasty was founded by Chandragupta Maurya in 321 BC.

• Ashoka was the 3rd ruler of the Dynasty.

• Ashoka (273 BC-232 BC):

• He was the greatest Mauryan ruler, Governor of Taxila and Ujjain.

• He was the son of Bindusara.

• Under Ashoka, the Mauryan Empire reached its climax.

• Ashoka fought the Kalinga War in 261 BC. Later, he was moved by the massacre in this war and, therefore, abandoned the policy of physical occupation in favor of the policy of cultural conquest.

• He embraced Buddhism under Upagupta.

Q79. Answer: (c) Portuguese

The correct answer is Portuguese.

Key Points

• Bahadur Shah was a sultan of the Muzaffarid dynasty who reigned over the Gujarat Sultanate, a late medieval kingdom in India from 1526 to 1535 and again from 1536 to 1537.

• The city of Bassein was already given to the Portuguese by Bahadur Shah in 1534, and after that, he signed another treaty with them and gave them Daman & Diu, Mumbai and Vasai, thus purchased their support.

• In 1537 while Bahadur shah was visiting them on a Portuguese ship anchored off the coast of Gujarat, he was killed by the Portuguese and his body was thrown in the Arabian Sea.

Important Points

• After the Battle of Khanwa in 1527, Rana Sanga died in 1528 poisoned by his own people.

• Rani Karnavati was the queen of Chitor and queen of Rana Sangram Singh (Rana Sanga).

• After the death of Rana Sanga, Sultan Bahadur Shah of Gujarat siege Chittor.

• At the time of the attack, Rani Karmavati sent an envoy to Humayun with a Rakhi seeking his help, considering him as a brother.

• Humayun was engaged in the east in the Bengal expedition.

• As soon as he received Rani's letter he abandoned the expedition and started marching towards Chittor to fight the Sultan and to help Queen.

• He arrived late. By that time the Rajputs had valiantly fought to the death against the enemies while Rajput women, including the Rani, had immolated themselves by performing Jauhar.

Q80. Answer: (c) NiFE

The correct answer is NIFE.

Key Points

• The term ‘NIFE’ refers to the Core of the earth.

• The innermost layer of the Earth is the core, with a radius of about 3500 km.

• The core is made up of very heavy material mostly constituted by nickel (Ni) and iron (Fe).

• NiFe has an abundance of nickel and iron.

• Nife is referred to as Ni – nickel, and Fe – ferrous i.e. iron layer.

• The central core has a very high temperature and pressure.

• The outer core is in a liquid state while the inner core is in the solid-state.

Additional InformationSIAL-

• The uppermost layer over the earth's surface is called the 'crust'; It is the thinnest of all the layers and is about 35 km on the continental masses and only 5 km on the ocean floors.

• The main mineral constituents of the continental mass are the 'silica and alumina', called 'sial'.

SIMA-

• The oceanic crust mainly consists of silica and magnesium, called 'sima'.

• Just beneath the crust is the mantle which extends up to a depth of 2900 km below the crust.

Q81. Answer: (b) Goa to Diu

The correct answer is Goa to Diu.

Key Points

• Konkan coast is a 720 km long coastline that forms and is a rugged section of the western coastline of India.

• It lies between the Western Ghats and the Arabian sea and extends from the Daman Ganga River to the Terekhol River between Maharashtra and Karnataka.

• Konkan is bound by the Arabian Sea to the west, the Deccan plateau to the east.

• The Konkan Coast proceeds from the north at Daman in the Gulf of Khambat extends southwards all along with the western seaside areas of Maharashtra and Goa and meets the Canara coast at the northern edge of Karwar District in Karnataka.

• The most well-known islands of Konkan, are Ilhas de Goa, the site of the capital city of Panjim, and Salsette Island on which Mumbai is situated.

Important Points Eastern Coastal Plains of India-

• The eastern coastal plains stretch from West Bengal in the north to Tamil Nadu in the south and pass through Andhra Pradesh and Odisha.

• The Eastern coast is again divided into three categories:

• Utkal coast- Extending between the Chilika Lake and Kolleru Lake, they are much wider than the western coastal plains and undergo immense rainfall.

• Andhra coast- Extending between the Kolleru Lake and Pulicat Lake, the Andra coast forms a basin area for the Krishna and the Godavari rivers.

• Coromandel coast- The Coromandel coast extends between Pulicat Lake and Kanyakumari in Tamil Nadu. This Indian coastline remains dry in summer and receives rainfall during the winters due to the north-east monsoons.

Western Coastal Plains of India-

• Western Coastal Plains stretches from Kerala in the south to Gujarat in the north passing through Karnataka, Goa and Maharashtra.

• The western coast is further divided into four categories:

• Kachchh and Kathiawar coast- Kachchh, formerly a gulf is formed by the deposition of silt by the Indus. Kathiawar is situated to the south of Kachchh.

• Konkan coast- It extends between Daman in the north to Goa in the south. Rice and cashew are the two important crops of this region.

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• Kanada coast- It extends between Marmagaon and Mangalore and is rich in iron deposits.

• Malabar coast- Extending between Mangalore to Kanyakumari, the Malabar coast is relatively broad. This region also consists of lagoons running parallel to the coast in southern Kerala.

Q82. Answer: (b) Kathakali - Karnataka

The correct ansser is Kathakali - Karnataka.

Key Points

• Kathakali is a classical Indian dance form which is a story play genre of art is the folk dance form of Kerala.

• Kathakali is the most difficult style of the traditional dance form.

• Kathakali is based on the epics of Ramayana and Mahabharata.

• There are 24 main mudras, and numerous more minor ones in Kathakali.

• There are nine facial expressions called Navarasas, which each actor masters through facial muscle control during his education, in order to express the emotional state of the character in the play.

• Famous proponents: Guru Kunchu Kurup, Gopi Nath, Kottakal Sivaraman, Rita Ganguly among others.

Additional InformationThe Sangeet Natak Akademi recognizes eight classical dances in India.

Dances	Origin	Main Reviving Personals	Famous Proponents
Bharatnatyam	Tamil Nadu	E. Krishna Iyer, Rukmini devi Arindel	Yamini Krishnamurthy, Lakshmi Vishwanathan, Padma Subramaniam, Mrinalini Sarabhai, Mallika Sarabhai
Kuchipudi	Andhra Pradesh	Balasaraswati, Ragini devi	Radha Reddy And Raja Reddy, Yamini Krishnamurthy, Indrani Rehman
Kathakali	Kerala	V. N. Menon	Guru Kunchu Kurup, Gopinath, Kottakal Sivaraman, Rita Ganguly
Odissi	Odisha	Indrani Rehman, Charles Fabri	Guru Pankaj Charan Das, Kelu Charan Mohapatra, Sonal Mansingh, Sharon Lowen, MYrla Barvie
Manipuri	Manipur	Raja bhag Chandra, Rabindranath Tagore	Nayana, Suverna, Ranjana and Darshna, Guru Bipin Singha
Kathak	Uttar Pradesh	Lady Leela Sokhey	Birju Maharaj, Lacchu Maharaj, Sitara Devi, Damyanti Joshi
Sattriya	Assam	Shankaradeva	•
Mohiniattam	Kerala	V. N. Menon, kalayani Amma	Sunanda Nair, Kalamandalam kshmavathy, Madhuri Amma, Jayaprabha Menon

Q83. Answer: (c) 20%

The correct answer is 20%.

Key Points

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

• The treaty was signed with the help of the World Bank, which is also a signatory.

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

• According to the treaty, Beas, Ravi, and Sutlej are to be governed by India, while, Indus, Chenab, and Jhelum are to be taken care of by Pakistan.

• However, since Indus flows from India, the country is allowed to use 20 percent of its water for irrigation, power generation, and transport purposes.

Important PointsIndus River:

• The river Indus rises in Tibet, near Lake Mansarovar.

• Flowing west, it enters India in the Leh.

• Several tributaries, the Zaskar, the Nubra, the Shyok, and the Hunza, join it in the Kashmir region.
• The Indus flows through Baltistan and Gilgit and emerges from the mountains at Attock.
• The Satluj, the Beas, the Ravi, the Chenab, and the Jhelum join together to enter the Indus near Mithankot in Pakistan.
• Finally, the Indus river drains into the Arabian Sea.
• Ancient Name: Sindhu.
• The total length of the Indus River is 3180 km.

Q84. Answer: (b) Prashant Singh

The correct answer is Prashant Singh.

Key PointsDronacharya Award

• The Dronacharya Award is awarded to a sports coach.
• This eminent award was started in the year 1985.
• It is given to coaches for their hard work to produce top-level sportspersons.
• This award is named after the legendary guru or teacher 'Dronacharaya'.
• Under the Dronacharya award, now Rs 7 lakh 50 thousand in cash, a bronze statue, certificate and ceremonial dress are provided.

2017 Dronacharya Award

• The Dronacharya Award will be awarded to Late Dr. R. Gandhi (athletics), Heera Nand Kataria (Kabaddi), G.S.S.V. Prasad (Badminton) (lifetime), Brij Bhushan Mohanty (Boxing) (lifetime), P.A. Raphel (Hockey) (lifetime), Sanjoy Chakraverthy (Shooting) (lifetime) and Roshan Lal (Wrestling) (lifetime).

Important PointsDronacharya Award for outstanding coaches in Sports and Games 2022 Regular Category:

• Jiwanjot Singh Teja (Archery)
• Mohammad Ali Qamar (Boxing)
• Suma Siddharth Shirur (Para Shooting)
• Sujeet Maan (Wrestling)

Lifetime Category:

• Dinesh Jawahar Lad (Cricket)
• Bimal Prafulla Ghosh (Football)
• Raj Singh (Wrestling)

Q85. Answer: (d) Mongolia

The correct answer is Mongolia.

Key Points

• China has a 22,100-kilometer land border with 14 countries.
• China shares borders with fourteen countries. The most important of these are Afghanistan, Bhutan, India, Kazakhstan, North Korea, Kyrgyzstan, Laos, Mongolia, Myanmar (Burma), Nepal, Pakistan, Russia, Tajikistan, and Vietnam.
• The longest one is shared with Mongolia which is 4677 km in length, followed by Russia which is 3645 km in length, India which is 3380 km in length and Myanmar which is 2185 km in length.

Additional InformationRussia-

• Russia borders share with 14 countries, Azerbaijan, Belarus, China, Estonia, Finland, Georgia, Kazakhstan, North Korea, Latvia, Lithuania, Mongolia, Norway, Poland, and Ukraine.

India-

• The nine neighbouring countries of India are - Afghanistan, Bangladesh, Bhutan, China, Maldives, Myanmar, Nepal, Pakistan, and Sri Lanka.

Myanmar-

• Myanmar is situated in Southeast Asia and is bordered on the north and north-east by China, on the east and south-east by Laos and Thailand, on the south by the Andaman Sea and the Bay of Bengal and on the west by Bangladesh and India.

Q86. Answer: (c) Only II

The correct answer is Only II

Explanation:

• Bakelite is a bad conductor of heat, therefore it does not conduct heat.
• Bakelite mouldings are heat-resistant and scratch-resistant.
• Owing to its low electrical conductivity, bakelite is resistant to electric current.

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• Bakelite is an insulators.
• It is made from a synthetic component.
• It is also called synthetic plastic.
• Bakelite is a polymer that is made up of monomers phenol and Formaldehyde.
• This phenol-Formaldehyde is a Thermosetting polymer.
• It is the chemical formula (C6H6-O-CH2OH)n.

Q87. Answer: (a) Petrol

The Correct answer is Petrol.

Explanation:

• Petrol has got the minimum ignition temperature. It is highly inflammable and can burn quickly in just a spark of fire.
• Ignition temperature is the lowest temperature at which any substance which is combustible catches fire and continues to burn when heated.
• The Self Ignition Temperature of Petrol varies from 247°C to 280°C.
• The autoignition temperature is also known as the kindling point.
• The kindling point of a substance is the lowest temperature at which it spontaneously ignites in a normal atmosphere without an external source of ignition, such as a flame or spark.

Q88. Answer: (a) Article 368

The correct answer is Article 368.

Key Points

• Article 368 of Part XX of the Indian Constitution empowers Indian Parliament to amend the constitution.
• Any changes in the nation's supreme law or fundamental law can be made under this.

Additional Information

Article 368	**Empowers Indian Parliament to amend the constitution**
Article 252	Empowers Indian Parliament to legislate for 2 or more states by consent and adoption of such legislation by any other state.
Article 254	Empowers Parliament to make laws for whole or any of the parts of India, empowers Legislature of a state to make laws for whole or any of the parts of a state.
Article 256	The executive power of every state to be exercised in a way to ensure compliance with the laws created by the Parliament or any other existing laws which apply for that state

Q89. Answer: (c) Part VIII

The correct answer is Part VIII.

Key Points

• Part VIII (Article 239-242) of the Indian Constitution deals with Union Territories.
• A Lieutenant governor or administrator is appointed by President for the administration of union territories.
• The 8 Union territories of India include Delhi, Jammu & Kashmir, Ladakh, Dadra and Nagar Haveli and Daman and Diu, Puducherry, Chandigarh, Andaman, and the Nicobar Islands and Lakshadweep.
• Out of the 8 union territories in India, Delhi, Puducherry (formerly Pondicherry) and Jammu & Kashmir have their legislatures.
• Union Territories are special administrative sectors in the republic of India that operate directly by the central government. Each territory has a capital. The territories are governed by a lieutenant governor appointed by the central government of India.
• India's smallest Union Territory is Lakshadweep.

Additional Information

Part VI	**(Article 152-237) Deals with the states**
Part VII	Has been deleted in the seventh amendment in 1956
Part VIII	(Article 239-242) of Indian Constitution deals with Union Territories
Part IX	Deals with the Panchayats

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Q90. Answer: (a) Peristalsis

The Correct answer is Peristalsis.

Explanation:

• The rhythmic contraction of the lining of muscles of the canal to push the food along the gut is called peristalsis. The movement comprises of relaxation of circular smooth muscles followed by their contraction behind a chewed material in order to keep it from moving backwards, and then its longitudinal contraction to push the material forward.

• The term is derived from the Greek word peristellein, which means 'to wrap around'.

• It begins in the oesophagus and helps to move the food along the alimentary canal for the process of digestion.

Additional Information

Guttation:

• It is the process of loss of water in the form of droplets from the leaf margins or uninjured regions.

• It occurs when transpiration is low and water absorption is high i.e. the root pressure is high.

• The liquid that is exuded out through guttation contains organic and inorganic dissolved substances along with water, so the liquid is not pure water only.

• Guttation is seen in herbaceous plants like tomatoes, grasses, balsam, etc.

Q91. Answer: (a) XY

The correct answer is XY

Explanation:

• Sex chromosomes in humans are responsible for sex determination.

• Each parent donates his or her offspring a set of 23 chromosomes,

• One pair is of sex chromosomes, which are X and Y.

• A combination of X and Y produces a male, whereas a combination of XX produces a female.

• Twenty-two of these pairs are autosomes and in the 23rd pair, the sex chromosome differs in males and females.

• Females have 2 copies of the X chromosome while males have one X and one Y chromosome.

Important Points

• Mendel's laws of inheritance, suggest the transmission of single-gene characters in the families, along with more complex types of inheritance such as multi-factorial or polygenic inheritance.

• Gregor Johann Mendel was born on July 22, 1822, to peasant parents in a small agrarian town in Czechoslovakia.

• He is considered the father of genetics.

• The laws of inheritance were proposed by Gregor Mendel in 1865 and 1866.

Q92. Answer: (a) USD 250 million

The correct answer is USD 250 million.

Key Points

• National Biopharma Mission' named 'i3':-

• Under the National Biopharma Mission, the government launched a program named Innovate in India (i3).

• It aims to create an enabling ecosystem, in order to promote entrepreneurship and indigenous manufacturing in the sector.

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

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

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

• Innovate in India (i3) program has been launched under this mission to create an enabling ecosystem to promote indigenous manufacturing and entrepreneurship in this sector.

• An amount of USD 250 million has been reserved for this mission and USD 125 million has been taken as loan from the World Bank.

• Dr. Harsh Vardhan launched the 'National Biopharma mission' named 'i3' in June 2017.

Q93. Answer: (d) United States of America

The correct answer is the United States of America.

Explanation:

• Scientists from Duke University, North Carolina, USA have developed working human skeletal muscle from stem cells in the laboratory for the first time.

• The human skeletal muscle was developed using blood cells or adult skin reprogrammed into a versatile and juvenile state.

• This development might help those who suffer from degenerative muscular diseases.

Q94. Answer: (a) Rs. 4893 crore

The correct answer is Rs. 4893 crore

Key Points

• Socio Economic and Caste Census 2011 (SECC 2011):-

• SECC is the study of the socio-economic status of urban and rural households and allows ranking based on predefined parameters.

• The Ministry of Rural Development commenced the Socio-Economic and Caste Census (SECC) in June 2011 through a comprehensive door-to-door enumeration across the country.

• This is the first time such a comprehensive exercise has been carried out for both rural and urban India.

• This is the first ever post-independence socio-economic caste census that began on 29th June 2011 from Sankhola village of West Bengal. The results were released in July 2015.

• The revised cost approved for the cost Socio-Economic and Caste Census 2011 (SECC 2011) is Rs. 4893.60 crores.

• The project which concluded on 31 March 2016 was aimed at providing the government the names and the number of families in all the Panchayats and detail their status on 7 deprivation parameters. It has successfully met all its milestones.

Q95. Answer: (a) 60

The correct answer is 60.

Key Points

• The Real Estate (Regulation and Development) Act, 2016:-

• It is an Act of the Parliament of India that seeks to protect home-buyers as well as help boost investments in the real estate industry.

• The Act establishes Real Estate Regulatory Authority (RERA) in each state for regulation of the real estate sector and also acts as an adjudicating body for speedy dispute redressal.

• In May 2017, the Real Estate Act has come into effect, which aims at protecting the interests of homebuyers by ensuring transparency.

• Under the Act, the Regulatory Authorities are required to dispose of complaints in 60 days.

Q96. Answer: (b) 8

CONCEPT:

• Force: Force is a push or pulls 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 × a

Acceleration = (Final velocity - Initial velocity)/time

=> a = (v2- v1) / t

Where F is the force exerted on the body, m is the mass of the body, a is the acceleration of the body, v2 is the final velocity, v1 is initial velocity and t s time.

Calculation:

Given data:

the mass of the body m = 4 kg, Final velocity v2= 25 m/s, Initial velocity v1 = 15 m/s, time t = 5 s.

We know that,

=> Acceleration = (Final velocity - Initial velocity)/time

a = (25 - 15)/5 m/s²= 2 m/s²

Also,

=> Force exerted = mass x acceleration

=> Force = 4 × 2 = 8 N

• So option 2 is correct.

Q97. Answer: (d) Uniform

The Correct answer is Uniform.

Explanation:

• Uniform motion: The motion of an object in which the object travels in a straight line and its velocity remains constant along that line as it covers equal distances in equal intervals of time, irrespective of the duration of the time.

• During the uniform motion of an object along a straight line, the change in velocity of the object for any time interval is zero and remains constant with time. In this case, the acceleration would also be equal to zero.

Additional Information

Comparison Parameters	Uniform Motion	Non Uniform Motion
Average Speed	The motion is similar to the actual speed of the object.	The motion is different from the actual speed of the object.
Rectilinear Motion	It has zero acceleration.	It has non-zero acceleration.
Graph	Distance-time graph shows a straight line	Distance-time graph shows a curved
Distance	Covers equal distances in an equal time interval.	Covers unequal distances in equal time

Q98. Answer: (d) get plenty of rainfall

The correct answer is get plenty of rainfall.

Key Points

• Tropical rainforests

• Tropical rainforests are rainforests that are found in areas in which there is no dry season.

• All months have an average precipitation of at least 60 mm.

• The Tropical rain forests are roughly located within 28° north or south of the equator, spread in Asia, Australia, Africa, South America, Central America, Mexico, and on many of the Pacific Islands.

• Trees that grow above the general canopy, may have heights of 45–55 m, although on occasion a few species will grow to 70–80 m tall.

Additional Information

• Montane Forests:

• In these types of forests, vegetation varies according to altitude.

• They differ significantly along the slopes of the mountain.

• Mangrove Forests:-

• These are formed along the banks of river estuaries.

• These are also called Tidal Forests.

• The mangrove forests of Sundarbans are the largest mangrove forests in the world.

Q99. Answer: (c) A and C

The correct answer is A and C.

Key Points

• Valentino Rossi:-

• Valentino Rossi was the only rider in history to win 125, 250, 500, and MotoGP™ World Championships.

• He won the Motorcycle race 2017 Dutch TT MotoGP. (Hence statement A is correct).

• Glenn Maxwell:-

• He is a Right Handed Batsman and Right-arm off-break bowler of the Australian Cricket team.

• In 2017, Glenn Maxwell captained the IPL team Kings XI Punjab. (Hence statement C is correct).

• 2017 ITTF Women's World Cup:-

• The 2017 ITTF Women's World Cup was a table tennis competition held in Markham, Ontario, from 27 to 29 October 2017.

• It was the 21st edition of the ITTF-sanctioned event, and the first time that it had been staged in Canada and not UK. (Hence statement B is incorrect).

• In the final, China's Zhu Yuling defeated fellow Chinese player Liu Shiwen, 4–3, to win her first World Cup title.

Q100. Answer: (b) Underline

The correct answer is Underline.

Key Points

• Microsoft Word:-

• MS Word is an application software developed by the company Microsoft.

• It allows users to type and save documents.

• It is helpful too for making documents.

• It is originally developed by Charles Simonyi and Richard Brodie, it was first released in 1983.
• It is available for Microsoft Windows and Apple OS.
• In Microsoft Word, under character formatting underline is used to underline some particular text.

Additional Information

• Font style is used to change the style of the default font or the one you were using earlier.
• Font size is used the change the size of the text.
• Effects is used to change the look of a text.

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