SSC CHSL Previous Paper 23 (Held On: 14 March 2018 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

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

The evolutionary history of penguins (1)/ is well-researched and represents a showcase of (2)/ evolution biogeography. (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’.

It was by real sorrow (1)/ that I heard this morning (2)/ of your great loss. (3)/ No error

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

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

Angela was _____ of that big mansion.

(a) Terrified
(b) Moisturised
(c) Embarrassed
(d) Sweating

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.

_____ great was achieved by an individual without enthusiasm and interest.

(a) Nothing
(b) Something
(c) Everything
(d) Anything

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

Jettison

(a) Keep
(b) Eject
(c) Embrace

(d) Retain

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

Prolific

(a) Dead
(b) Productive
(c) Famous
(d) Evidence

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

Purloin

(a) Steal
(b) Filch
(c) Lift
(d) Compensate

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

Florid

(a) Busy
(b) Plain
(c) Flowery
(d) Pretentious

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

The economic

P: a country leads to exponential

Q: growth of that country

R: empowerment of women of

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

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 commotion terrified her.

(a) She was terrified.
(b) She is terrified of commotion.
(c) She terrified by the commotion.
(d) She was terrified by the commotion.

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.

I said to Ajay, “Will you lend me some money?”

(a) I told Ajay to lend me some money.
(b) I said to Ajay if he would give me some money.
(c) I asked Ajay if he would lend me some money.
(d) I asked Ajay if he would give me some money or not.

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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) Meidieval
(b) Medieval
(c) Medeival
(d) Medievul

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.

It is basic to a democracy that its citizens remain in harmony _____ one another. At the very least, they should ___ treat each other as enemies. Enmity is spread only by vested interests that hope to thrive _____ polarising citizens. The _____ between professed love for the country and infecting the people with hatred remains ignored. There is no instance in history of the policy of 'divide and rule' _____ people's welfare.

Q13. remain in harmony _____ one another.

(a) As
(b) At
(c) Each
(d) With

Q14. they should _____ treat each other

(a) No
(b) Neither
(c) Not
(d) Nor

Q15. hope to thrive _____ polarising citizens

(a) So
(b) As
(c) By
(d) Like

Q16. the _____ between professed love

(a) Incompatible
(b) In compatibility
(c) In compatible
(d) Incompatibility

Q17. divide and rule' _____ people's welfare.

(a) Promote
(b) Promotion
(c) Promoted
(d) Promoting

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

Blessing in disguise

(a) Good fortune always follows bad; that is the way of fate.
(b) An apparent misfortune that eventually has good results.
(c) If a curse makes one stronger than it is a blessing.
(d) A life of hardship does wonders for a person's character.

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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.

A picture paints a thousand words

(a) An image of a subject conveys its meaning more effectively than a description does.
(b) No words can do justice to a masterpiece.
(c) A great poem or script recreates a complete imagery.
(d) Your mind will create fanciful images based on the information that it gets.

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

Working-class people regarded collectively

(a) Opulent
(b) Proletariat
(c) Glided
(d) Affluent

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

A long, angry speech of criticism or accusation

(a) Obeisance
(b) Panegyric
(c) Homage
(d) Tirade

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".

The Buddha (was consumed) by the human suffering that he saw all around him.

(a) Was consume
(b) Was consuming
(c) were consumed
(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".

This unresponsive attitude by people must (has hurt) him.

(a) have hurt
(b) have hurting
(c) have has hurt
(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.

Rest assured that water

A - stop running if there are too

B - many people around

C - in the Nohkhalikai falls will not

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

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

(a) Scrupulus
(b) Scruppulous
(c) Scruppulus
(d) Scrupulous

GENERAL INTELLIGENCE

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

Hospital : Treatment : : ? : ?

(a) Product : Production
(b) Government : Country
(c) Justice : Court
(d) School : Education

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

13 : 171 : : 17 : ?

(a) 286
(b) 289
(c) 291
(d) 294

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

PTR : NRP : : WTV : ?

(a) ZVX
(b) YVZ
(c) URT
(d) UQT

Q29. Select the odd word from the given alternatives.

(a) West
(b) Direction
(c) South
(d) South- West

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

(a) 23 - 24
(b) 25 - 26
(c) 27 - 28
(d) 29 - 27

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

(a) SRQP
(b) JIHG
(c) VUTS
(d) ZYXV

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

1. Dispel
2. Dispute
3. Distinct

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4. Dissent

5. Disrupt

(a) 35412
(b) 15342
(c) 23415
(d) 12543

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

15, 21, 28, 34, ?, 47

(a) 41
(b) 40
(c) 44
(d) 43

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

D, G, K, N, R, ?, ?, B, F

(a) U, Z
(b) U, Y
(c) X, Z
(d) T, Z

Q35. Rajnish walks 35 km towards north. He turns left and walks 20 km. He turns left and walks 35 km. How far (in km) is he now from his starting point?

(a) 25
(b) 90
(c) 20
(d) 10√2

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

Nightingales

(a) Nine
(b) Gales
(c) Eight
(d) Novel

Q37. In a certain code language, “TALCS” is written as “UENCV”. How is “SPARK” written in that code language?

(a) HRVTN
(b) MTCRU
(c) MTCSV
(d) MAMTR

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

2 ÷ 12 - 6 + 20 × 4 = ?

(a) 40
(b) 1
(c) 20
(d) 43

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

18 × 12 - 6 ÷ 5 + 4 = 35

(a) • and ×
(b) • and ÷

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(c) • and +
(d) ÷ and -

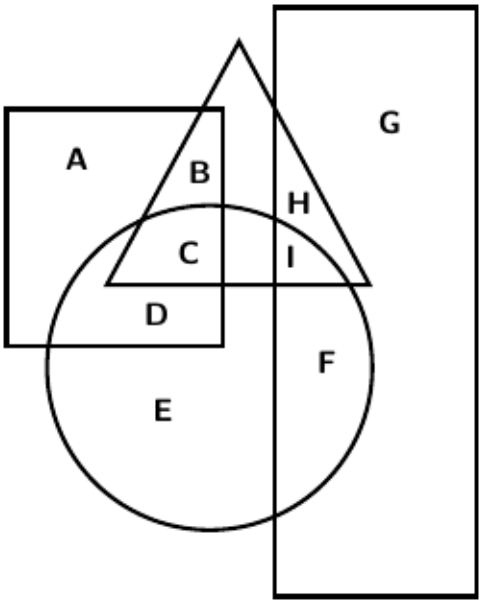
Q40. If 8*9 = 36, 12*4 = 24 and 14*6 = 42, then find the value of 18*6 = ?
(a) 14
(b) 54
(c) 44
(d) 2

Q41. Which of the following terms follows the trend of the given list?
AABAAAA, BAAAAAA, AAAAABA, AAABAAA, ABAAAAA, _____.
(a) AAAABAA
(b) AABAAAA
(c) BAAAAAA
(d) AAAAAAB

Q42. A goods carrier travels 23 km East, then it turns North and travels 15 km, then it turns West and Travels 38 km, then it turns to its left and travels 15 km. Where is it now with reference to its starting position?
(a) 61 km West
(b) 15 km East
(c) 61 km East
(d) 15 km West

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 brushes are brooms
Statement II: All mops are brushes
Conclusion I: All brooms are mops
Conclusion II: All mops are brooms
(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 represent Dieticians, circle represent Floral designers, triangle represents gardeners and square represent Asians. Which set of letters represent floral designers who are not Gardeners?



(a) BKH
(b) ABC
(c) DEF
(d) GHI

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

PMA, RPE, TSI, VVM, ?

(a) YZR
(b) VWQ
(c) XYQ
(d) ACS

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

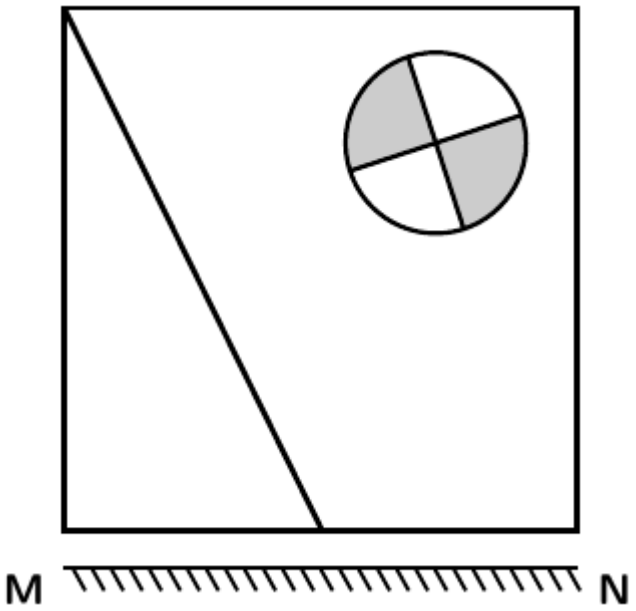
67, 80, 93, ?, 119, 132

(a) 108
(b) 106
(c) 114
(d) 112

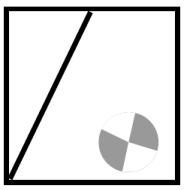
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (4, 16, 64)
(b) (5, 25, 125)
(c) (6, 36, 216)
(d) (7, 49, 243)

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

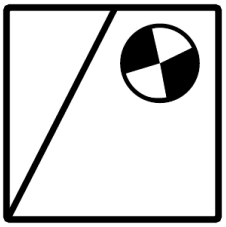


(a)

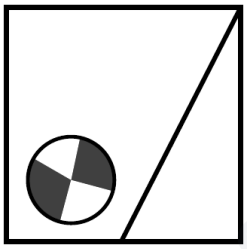


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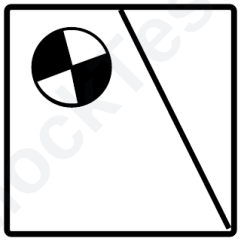
(b)



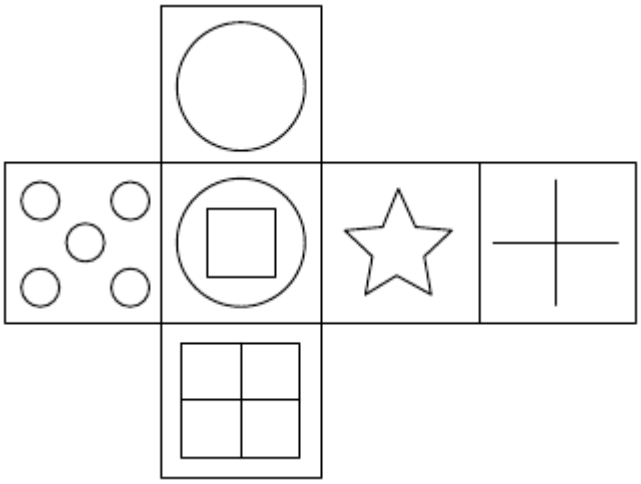
(c)



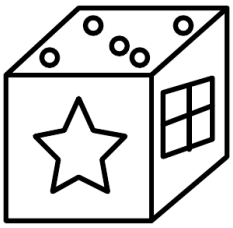
(d)



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

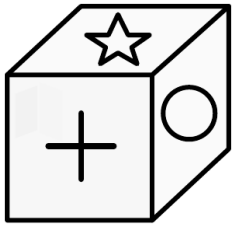


(a)

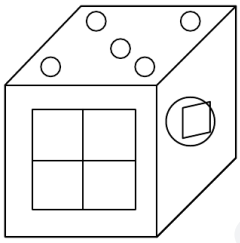


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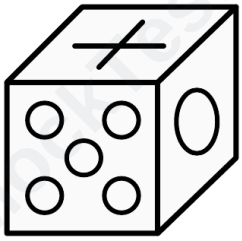
(b)



(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 represent but two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix - I are numbed 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 examples “A” can be represented by 30, 41 etc and ‘W’ can represented by 65, 97 etc. Similarly, you have to identify the set for word ‘QUIZ’.

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

(a) 42, 79, 23, 57
(b) 24, 86, 20, 85
(c) 76, 96, 40, 88
(d) 31, 78, 34, 88

QUANTITATIVE APTITUDE

Q51. The sum of a proper fraction and its reciprocal is 61/30. Find the fraction.

(a) 1/3
(b) 5/6
(c) 3/10
(d) 3/5

Q52. Sum of four consecutive odd numbers is 208. Find the largest number.

(a) 55
(b) 57
(c) 59
(d) 61

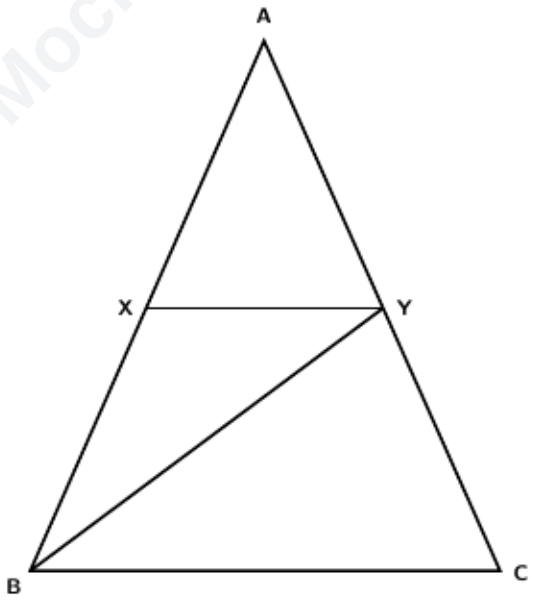
Q53. If (-5x)/3 + 2 = x - 6 then find the value of 'x'

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

Q54. Divya and Kriti have total 46 candies. If Divya has 10 candies more than Kriti, then find the total number of candies Divya have?

(a) 20
(b) 24
(c) 28
(d) 32

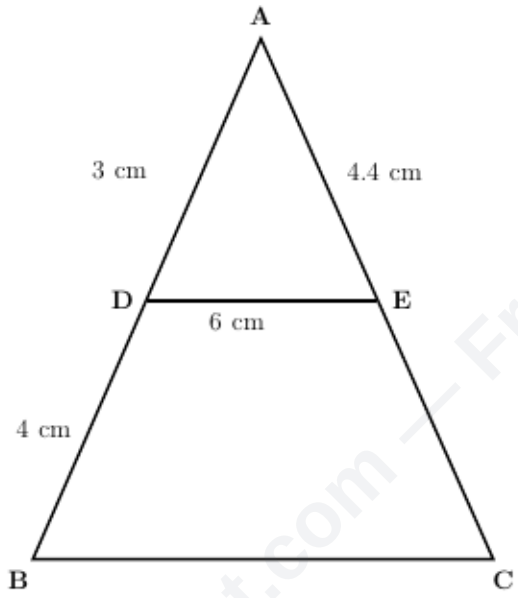
Q55. Triangle ABC as shown in the figure has line XY parallel to be BC and the line BY is the bisector of angles XYC, which of the following options is correct.



(a) BC = XY
(b) BC = YC
(c) BC = BY
(d) XY = BY

Q56. Analyse the figure shown below in which DE || BC and the other dimensions are as follows: AD = 3 cm, BD = 4 cm, AE = 4.4 cm and DE = 6 cm. Calculate the length (in cm) of BC.

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(a) 6
(b) 8
(c) 12
(d) 14

Q57. Two numbers are more than the third number by 16.25% and 55% respectively. First number is what percent of the second number?

(a) 85%
(b) 81%
(c) 75%
(d) 61%

Q58. If u : v = v : w, then what is the value of u^4: v^4?

(a) u^2: wv
(b) u^2: w^2
(c) u^2 v : w^3
(d) u : w

Q59. R and S started a business by investing Rs. 165000 and Rs. 195000 respectively for the same period. If R's share in the profit earned by them is Rs. 11000, then what is the total profit (in Rs.) earned by both together?

(a) Rs. 22000
(b) Rs. 40000
(c) Rs. 26000
(d) Rs. 24000

Q60. The average of 12 numbers is 35. If four numbers 20, 27, 15 and 29 are removed, then what will be the average of the remaining numbers?

(a) 41.125
(b) 49.5
(c) 52.5
(d) 38.375

Q61. What is the difference (in Rs.) between compound interest (compounded annually) and simple interest for 3 years on a principal of Rs. 3000 at the annual rate of 20%?

(a) 464
(b) 384
(c) 356

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(d) 424

Q62. A dishonest shopkeeper uses a weight of 850 gm instead of 1 kg and sells rice at its cost price. What will be his profit percentage on selling 5 kg rice?

(a) 18.24%
(b) 17.65%
(c) 15%
(d) 13.04%

Q63. A fan is sold at a discount of 37.5%. If the marked price of the fan is Rs. 7200, then what is the selling price (in Rs) of the fan?

(a) Rs. 4500
(b) Rs. 4350
(c) Rs. 5240
(d) Rs. 5120

Q64. What is the simplified value of 2cbrt243 + 3cbrt9 + cbrt1125 ?

(a) 5cbrt9
(b) 14cbrt9
(c) 7cbrt9
(d) 11cbrt9

Q65. 24 men can repair a road in 50 days. If they are joined by 16 more men, then in how much time (in days) the road can be repaired?

(a) 28
(b) 25
(c) 32
(d) 30

Q66. Two motorcycles are moving towards each other with the speeds of 38 km/hr and 88 km/hr respectively. One second before the collision what will be the distance (in meters) between the two motorcycles if they are 126 km apart from each other?

(a) 42
(b) 40
(c) 34
(d) 35

Directions

Directions: The bar graph shows 1 month’s sales figures of different brands of televisions of a certain electronics store. Study the diagram and answer the following question:

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Q67. Sales of which television brand were the second lowest?

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

Q68. Find the ratio of the sales of brand E to that of brand A.

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

Q69. Sales of brand B Television was lesser than that of brand G by_____

(a) 3.75%
(b) 6.67%
(c) 7.17%
(d) 5.25%

Q70. If the sales figures are exclusive of tax, then at the rate of 12% tax how much is the tax to be paid (in Rs.) on the sales of all the 7 brands of televisions?

(a) 240000
(b) 24000
(c) 420000
(d) 42000

Q71. The area and the length of one of the diagonals of a rhombus is 60 cm^2 and 8 cm respectively. Find the length of its other diagonal (in cm).

(a) 7.5
(b) 30
(c) 22.5
(d) 15

Q72. Find the area (in cm^2) of a semi–circle of radius 7 cm.

(a) 154
(b) 21
(c) 42

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(d) 77

Q73. Find the total surface area (in cm²) of a cube of side 3.5 cm.

(a) 91.7
(b) 64
(c) 88
(d) 73.5

Q74. What is the value of (1/√3 + cot60^0)?

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

Q75. ΔABC is right angled at B. If cot C = 24/7, then what is the value of cosec C?

(a) 7/25
(b) 25/7
(c) 24/7
(d) 7/24

GENERAL AWARENESS

Q76. Buyer's market denotes the place where _____.

(a) the demand exceeds the supply
(b) the supply exceeds the demand
(c) commodities are available at competitive rates
(d) the demand and supply are well balanced

Q77. State with maximum production of coffee in India is _____.

(a) Karnataka
(b) Kerala
(c) Maharashtra
(d) Tamil Nadu

Q78. Which of the following is NOT an example of intermontane plateau?

(a) Plateau of Tibet
(b) Columbia Plateau
(c) Patagonia Plateau
(d) Bolivian Plateau

Q79. Tawa River is the tributary of which of the following river?

(a) Narmada
(b) Tapi
(c) Chambal
(d) Yamuna

Q80. The Sanskrit poet Rajshekhar lived in the court of _____.

(a) Mahendrapala I
(b) Dharmapala
(c) Bhoja
(d) Devpala II

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Q81. Which of the following Mughal rulers started 'Jharokha Darshan'?

(a) Babar
(b) Humayun
(c) Akbar
(d) Jahangir

Q82. Who among the following is a world-famous flute player?

(a) Pandit Ravi Shankar
(b) Shivkumar Sharma
(c) Zakir Hussain
(d) Hariprasad Chaurasia

Q83. With which country India has signed an agreement in September 2017 for co-operation in the health sector?

(a) Indonesia
(b) Norway
(c) France
(d) Denmark

Q84. Who among the following was honored with the "Hridaynath Mangeshkar Award-2017" in October 2017?

(a) Salim Khan
(b) Javed Akhtar
(c) Nana Patekar
(d) Mahesh Bhatt

Q85. Pakistan is located in which direction of India?

(a) East
(b) West
(c) North-East
(d) North-West

Q86. If an atom has atomic number 10 and mass number 23, then what will be the number of protons and neutrons in an atom respectively?

(a) 10, 10
(b) 10, 23
(c) 13, 10
(d) 10, 13

Q87. While cooking, if the bottom of the vessel is getting blackened on the outside, it means that _____.

(a) the food is not cooked completely
(b) the fuel is not burning completely
(c) the fuel is wet
(d) the fuel is burning completely

Q88. Temporary Provisions with respect to the state of Jammu and Kashmir is given in which Article of Indian Constitution?

(a) Article 350
(b) Article 360
(c) Article 370
(d) Article 380

Q89. Which among the following writs can be issued against any private individual?

I. Certiorari
II. Prohibition
III. Habeas Corpus

(a) Only III

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(b) Both I and III
(c) Both II and III
(d) No option is correct.

Q90. Which type of epithelial tissue forms the lining of kidney tubules and ducts of salivary glands, where it provides mechanical support?
(a) Simple squamous epithelial
(b) Stratified squamous epithelial
(c) Ciliated columnar epithelial
(d) Cuboidal epithelial

Q91. The cell walls of many organisms of Fungi kingdom are made of a tough complex sugar called which among the following?
(a) Pectin
(b) Suberin
(c) Cellulose
(d) Chitin

Q92. In November 2017, who launched 'Grahak Sadak Koyla Vitaran App' that aims to benefit customers of Coal India Limited (CIL)?
(a) R. K. Singh
(b) Suresh Prabhu
(c) Narendra Singh Tomar
(d) Piyush Goyal

Q93. What is the name of the asteroid that causes Geminid meteor shower display around 15 December of every year?
(a) 3 Juno
(b) 3200 Phaethon
(c) 511 Davida
(d) 5200 Europa

Q94. In October 2017, RBI planned to make _____ compulsory for companies having aggregate exposure over Rs. 5 crore.
(a) Index Identifier
(b) Economic Fund Identifier
(c) Legal Entity Identifier
(d) No option is correct.

Q95. On January 16, 2018, the Supreme Court ruled the attacks and interference on adults opting for inter-caste marriage as 'absolutely illegal' in the petition filed by which NGO in 2010?
(a) PRATHAM
(b) Shakti Vahini
(c) Goonj
(d) Sammaan

Q96. Find the acceleration (in m/s^2) produced in a body of mass 2 kg when a force of 8 N is applied to it.
(a) 4
(b) 16
(c) 8
(d) 32

Q97. An object having a capability to do work is said to possess _____.
(a) force
(b) moment
(c) momentum
(d) energy

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Q98. The ozone layer protects us from harmful _____ rays of the sun.

(a) infrared
(b) cosmic
(c) gamma
(d) ultraviolet

Q99. Which of the statements given below are correct?

A) In 2017, Michael Carrick captained the Premier League team Manchester United.
B) Sergio García won the Golf 2017 ANA Inspiration.
C) In 2018 IPL auctions, Kolkata Knight Riders retained Axar Patel.

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

Q100. In MS-Excel, _____ is an excellent tool for presenting data in an attractive format in a worksheet, which helps in analyzing and comparing data.

(a) Charts
(b) Mail merge
(c) Outline
(d) Tables

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) 3

The correct answer is 3

Key Points

Reading the given sentence we find that:

• The error lies in part C of the sentence
• In part C of the sentence, the usage of 'biogeography' is incorrect. Instead, we should use 'biogeographically.'
• In the given sentence we need an adverb at the end to give a whole meaning to the sentence.
• Here the adverb gives the proper as to where the evolution took place i.e it happened biogeographically.
• Hence the correct answer is biogeographically which is an adverb.

So the correct sentence is: The evolutionary history of penguins is well-researched and represents a showcase of evolution biogeographically.

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Q2. Answer: (a) 1

The correct answer is 1

Key Points

Reading the above sentence we find that:

• The error lies in the first part of the sentence.

• Here the preposition 'by' is incorrect and should be replaced with 'with'.

• In the above sentence, the manner or attitude in which the person heard something is mentioned.

• The correct preposition that indicates this manner or attitude is 'with'.

• Example: The people shouted with pleasure.

**Thus the error lies in the first part and therefore, it is the correct answer.

The correct sentence is: It was with real sorrow that I heard this morning of your great loss.

Additional Information

• The uses of preposition with

• With means ‘in the same place as someone or something’ or ‘accompanying’:

• For example: She arrived with her boyfriend.

• With often follows adjectives which refer to reactions and feelings:

• For example: Are you happy with your music lessons?

• We use with to refer to what we use to do something:

• For example: They opened the package with a knife.

• We use with to mean ‘having’ or ‘possessing’:

• For example: It’s the house with the really big gates.

• We use with to mean ‘because of’ or ‘as a result of’. This is especially common in speaking:

• For example: With all this work, I’d better stay in tonight.

Q3. Answer: (a) Terrified

The correct answer is Terrified.

Key Points

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

• Terrified: Cause to feel extreme fear.

• Moisturised: Make something less dry.

• Embarrassed: Feeling or showing embarrassment.

• Sweating: Exuding sweat profusely.

Important Points

From the given meanings only the word terrified fits the sentence contextually.

• Angela was terrified of that big mansion.

• Which means that she was extremely scared of the big mansion.

Thus the correct answer is Terrified.

Q4. Answer: (a) Nothing

The correct answer is Nothing:

Key Points

Reading the above sentence we find that:

• The sentence aims to say that to achieve something one needs enthusiasm and interest.

• Thus without enthusiasm and interest, nothing can be achieved.

• Hence in the given sentence, we should start it with a negative word as the sentence talks about what can be achieved without enthusiasm and interest.

• Therefore the correct answer is Nothing.

The correct sentence is: Nothing great was achieved by an individual without enthusiasm and interest.

Q5. Answer: (b) Eject

The correct answer is Eject.

Key Points

• Let's look at the meanings of the given word and the correct option:

• Jettison: To drop or get rid of something; to omit or forgo something.
• Example: The station has jettisoned educational broadcasts.
• Eject: To throw something out; to get rid of something.
• Example: Small splatters of molten lava were ejected from the crater.
• Thus form the given meanings we find that both the words express similar meanings.
• Hence, the correct answer is Eject.
Additional Information
• Let's look at the meanings of the other given options.
• Keep: Have or retain possession of.
• Example: Do you want this photograph back or can I keep it?
• Embrace: Hold in one's arm; to accept something.
• Example: This was an opportunity that he would embrace.
• Retain: Continue to have; or keep possession of.
• Example: She has lost her battle to retain control of the company.

Q6. Answer: (b) Productive

The correct answer is Productive.
Key Points
Let's look at the meanings of the given word and the correct option.
• Prolific: Present in a large number of quantities.
• Productive: Producing or able to produce a large number of quantities.
Thus from the given meanings, we find that both the words express similar meanings.
Hence the correct answer is Productive.
Additional Information
Let's look at the meaning of the other given words.
• Dead: No longer alive; not showing any activity or growth.
• Famous: Known by many people.
• Evidence: The available body of facts or information to support something.

Q7. Answer: (d) Compensate

The correct answer is Compensate.
Key Points
Let's look at the meaning of the given word and the correct option.
• Purloin: To steal something.
• Compensate: To give someone something.
From the above meanings, it is clear that both the words express the opposite meanings.
Thus the correct answer is Compensate.
Additional Information
Let's look at the meaning of the other given options.
• Steal: Take without permission.
• Filch: Pilfer or steal in a casual way.
• Lift: Pick up and move to a different position.

Q8. Answer: (b) Plain

The correct answer is Plain
Key Points
Let's look at the meaning of the given word and the correct option.
• Florid: Excessively intricate or elaborate.
• Plain: Not decorated or elaborate; simple or basic in character.
Thus from the given meanings, we find that both these words have the opposite meanings.
Therefore the correct answer is Plain.
Additional Information
Let's look at the meanings of other words.

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• Flowery: Covered with flowers or having a floral design.
• Pretentious: Attempting to impress by affecting greater importance or merit than is actually possessed.

Q9. Answer: (c) RPQ

The correct answer is RPQ
Key Points
Reading the above-given statements we find that:
• Statement R is the first statement as it gives meaning and carries forward the given phrase The economic.
• That is The economic empowerment of women.
• The next statement to follow R is P. P gives more meaning to the statement R.
• It tells us specifically which women are to be empowered.
• That is 'women of a country...'
• The next statement to follow P is Q. Q gives more meaning to the statement R.
• It tells us what the empowerment of women of a country leads to.
• That is the 'growth of that country'
Thus the correct answer is RPQ
The economic empowerment of women of a country leads to exponential growth of that country.

Q10. Answer: (d) She was terrified by the commotion.

The correct answer is She was terrified by the commotion.
Key Points
Reading the above sentence we find that it is in the Active voice.
• While changing the sentence to Passive voice we have to reverse the subject and the object of the sentence.
• The subject in the given sentence is commotion and the object is her.
• Reversing both the subject and the object we get the sentence:
• Her changes to She and becomes the new subject.
Thus the correct sentence will be: She was terrified by the commotion.

Q11. Answer: (c) I asked Ajay if he would lend me some money.

The correct answer is I asked Ajay if he would lend me some money.
Key Points
Reading the above sentence it is clear that
• A question is being asked here, thus said to changes to asked.
• 'You' changes to 'he' and 'will' changes to 'would'
• Thus we get the sentence: "I asked Ajay if he would lend me some money"
Thus the correct answer is option 3.

Q12. Answer: (b) Medieval

The correct answer is Medieval
Key Points
Medieval: Relating to the middle ages.
Apart form the word Medieval all the other words are spelt incorrectly.
Thus the correct answer is Medieval.

Q13. Answer: (d) With

The correct answer is With
Key Points
Reading the above sentence:
• We understand that a preposition which conveys the meaning 'a relation to something' is the most appropriate.
• Out of the given options only the preposition with expresses such a meaning.
• With: In relation to (something)
• Example: Wisdom comes with age.
• Therefore the correct sentence will be 'remain in harmony with one another'
• That means to be in harmony with relation to one another.

Thus the correct answer is With

Q14. Answer: (c) Not

The correct answer is Not.

Key Points

Reading the full sentence we find that:

• A word expressing a negation should be used here.

• And since the word is following the verb should it should

• "At the very least, they should _____ treat each other as enemies."

• Not is the only adverb here that can give proper contextual and grammatical meaning to the sentence.

Thus the correct answer will be: At the very leas, they should not treat each other as enemies.

Q15. Answer: (c) By

The correct answer is By

Key Points

Reading the above statement we find that:

• By is used to introduce an agent in the sentence.

• Out of the given options by is the most appropriate option as it introduces polarising citizens.

• It gives proper contextual and grammatical meaning to the statement.

• Example: Malaria can be controlled by attacking the parasite

Thus the correct answer is by.

The correct sentence will be: 'hope to thrive by polarising citizens.

Q16. Answer: (d) Incompatibility

The blank is to be filled by a noun. The only possible choice is 4) Incompatibility ((of two things) so different in nature as to be incapable of coexisting) is the correct answer.

Q17. Answer: (d) Promoting

When you say history of, you have already stated that it's in the past. You don't need to use the past tense again. Rule out 3). Clearly, the blank will fill in with a verb => rule out 4). Option 4) Promoting is the correct answer.

Q18. Answer: (b) An apparent misfortune that eventually has good results.

The correct answer is An apparent misfortune that eventually has good results.

Key Points

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

• Blessing in disguise: an apparent misfortune that eventually has good results.

• Example: Being omitted from the World Cup squad was a blessing in disguise.

Thus from the given meaning, it is clear that the correct answer is option 2.

Q19. Answer: (a) An image of a subject conveys its meaning more effectively than a description does.

The correct answer is An image of a subject conveys its meaning more effectively than a description does.

Key Points

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

A picture paints a thousand words means a picture will be far more descriptive of something than words can ever be.

From the given meaning it is clear that the correct answer is option 1

Q20. Answer: (b) Proletariat

The correct answer is Proletariat.

Key Points

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

• Opulent: Ostentatiously costly and luxurious.

• Proletariat: Working-class people regarded collectively.

• Glided: Move with a smooth, quiet continuous motion.

• Affluent: Having a great deal of money.

From the given meanings we find that the correct answer is Proletariat.

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Q21. Answer: (d) Tirade

The correct answer is Option 4)

Key Points

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

• Obeisance: deferential respect

• Panegyric: a public speech or published text in praise of someone or something

• Homage: special honour or respect shown publicly

• Tirade: a long, angry speech of criticism or accusation

Thus, the correct answer is Tirade

Q22. Answer: (d) No improvement

The correct answer is 'No improvement'.

Key Points

• The sentence is in past tense, and we know this by the phrase 'he saw'.

• Also the pronoun 'he' which is singular is referring to 'The Buddha'.

• 'The Buddha' singular subject, needs a singular verb 'was' and not 'were'.

• Thus, the correct sentence- The Buddha was consumed by the human suffering that he saw all around him.

• Hence, the correct answer is option 4.

Additional Information

• Consumed - to engage fully; engross; someone can be said to be consumed by/with a feeling if that feeling is extremely strong.

• For Example - We were consumed with joy and relief, as well as profound gratitude.

Q23. Answer: (a) have hurt

Whenever we use must, all tenses take have. Simple present tense is being used here => hurt. Option 1) Have hurt is the correct answer.

Q24. Answer: (b) CAB

Water = singular. Thus, water stop plunging will be incorrect. A can't be first. Water many people doesn't make sense. B can't be first either. Option 2) CAB is the only possible choice.

Rest assured that water in the Nohkalikai falls will not stop running if there are too many people around.

Q25. Answer: (d) Scrupulous

The correct answer is Scrupulous

Key Points

Out of the given options only Scrupulous is spelt correctly.

• Scrupulous: (of a person or process) careful, thorough, and extremely attentive to details

• Example: The research has been carried out with scrupulous attention to detail.

Thus the correct answer is Scrupulous.

Q26. Answer: (d) School : Education

As people go to hospital for treatment similarly, people go to school for education.

Hence, the related word pair is ‘School : Education’.

Note: Pair of ‘Place and Work’ is given so option 3 ‘Justice : Court’ will not be the answer as here the pair of ‘Work and Place’ is given.

Q27. Answer: (c) 291

The pattern followed here is,

13 : 171

→ $(13)^2 + 2 = 171$

Similarly,

17 : ?

→ $(17)^2 + 2 = 291$.

Hence, the related number is ‘291’.

Q28. Answer: (c) URT

The pattern followed here is,

PTR : NRP

→ P - 2 = N, T - 2 = R, R - 2 = P

Similarly,

WTV : ?

→ W - 2 = U, T - 2 = R, V - 2 = T

Hence, the related letters are 'URT'.

Q29. Answer: (b) Direction

Here, the word 'Direction' is odd as except this all other options (West, South, and South - West) are names of different directions.

Hence, the correct answer is "Direction".

Q30. Answer: (d) 29 - 27

The pattern followed here is,

First Number + 1 = Second Number

Applying the above logic to each option, we get

1) 23 - 24 → 23 + 1 = 24

2) 25 - 26 → 25 + 1 = 26

3) 27 - 28 → 27 + 1 = 28

4) 29 - 27 → 29 + 1 = 30 ≠ 27

Thus, 29 - 27 does not follow the logic and it is the odd one out.

Hence, the correct answer is, "29 - 27".

Q31. Answer: (d) ZYXV

The pattern followed here is,

1) SRQP:

2) JIHG:

3) VUTS:

4) ZYXV:

Thus, ZYXV does not follow the logic and it is the odd one out.

Hence, the correct answer is 'ZYXV'.

Q32. Answer: (d) 12543

Dictionary order:

1. Dispel
2. Dispute
5. Disrupt
4. Dissent
3. Distinct

So, the correct dictionary order is '1, 2, 5, 4, 3'.

Hence, the correct answer is, "12543".

Q33. Answer: (a) 41

The pattern followed here is,

Thus, the missing number in the series is 41

Hence, the correct answer is, "41".

Q34. Answer: (b) U, Y

Table showing the positional value of the letter in alphabetical series.

The pattern followed here is,

Thus, the missing letters in the series are 'U, Y'.

Hence, the correct answer is, "U, Y".

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Q35. Answer: (c) 20

The following diagram shows the displacement of Rajnish,

Thus, Rajnish is 20 km away from his starting point.

Hence, the correct answer is, "20".

Q36. Answer: (d) Novel

Checking each option, we get

1) Nine → Nightingales → can be formed.

2) Gales → Nightingales → can be formed.

3) Eight → Nightingales → can be formed.

4) Novel → Nightingales → cannot be formed as there is no 'V' and 'O'.

Thus, ‘Novel’ cannot be formed.

Hence, the correct answer is, "Novel".

Q37. Answer: (b) MTCRU

Table showing the positional values of letters in alphabetical series,

Given that, ‘TALCS’ is coded as follows,

Similarly, ‘SPARK’ will be coded,

Thus, ‘SPARK’ will be coded as ‘MTCRU’.

Hence, the correct answer is, "MTCRU".

Q38. Answer: (c) 20

Given equation: 2 ÷ 12 - 6 + 20 × 4 = ?

Symbol	•	•	×	÷
Meaning	•	×	÷	•

On changing symbols, we get,

2 - 12 + 6 × 20 ÷ 4

=> 2 - 12 + 6 × 5

=> 2 - 12 + 30

=> 32 - 12

=> 20

Hence, the answer is ‘20’.

Q39. Answer: (d) ÷ and -

Given equation: 18 × 12 - 6 ÷ 5 + 4 = 35

1) on interchanging ‘+ and ×’ we get,

18 + 12 - 6 ÷ 5 × 4 = 35

18 + 12 - 6 ÷ 5 × 4

=> 18 + 12 - 4.8

=> 30 - 4.8

=> 25.2 ≠ 35

2) On interchanging ‘+ and ÷’ we get,

18 × 12 - 6 + 5 ÷ 4 = 35

18 × 12 - 6 + 5 ÷ 4

=> 216 - 6 + 1.25

=> 217.25 - 6

=> 211.25 ≠ 35

3) On interchanging ‘- and +’ we get,

18 × 12 + 6 ÷ 5 - 4 = 35

18 × 12 + 6 ÷ 5 - 4

=> 216 + 1.2 - 4

=> 213.2 ≠ 35

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4) On interchanging '÷ and -' we get,

18 × 12 ÷ 6 - 5 + 4 = 35

18 × 12 ÷ 6 - 5 + 4

=> 18 × 2 - 5 + 4

=> 36 - 5 + 4

=> 40 - 5

=> 35 = 35

Thus, ÷ and - satisfies the given equation.

Hence, the correct answer is, "÷ and -".

Q40. Answer: (b) 54

The pattern followed here is,

8*9 = 36

=> (8 ÷ 2) × 9

=> 4 × 9 = 36

14*6 = 42

=> (14 ÷ 2) × 6

=> 7 × 6 = 42

Similarly,

18*6 = ?

=> (18 ÷ 2) × 6

=> 9 × 6 = 54

Hence, the answer is '54'.

Q41. Answer: (d) AAAAAAB

In the given series position of 'B' is two step backwards(i.e. second place towards left)

AABAAAA → BAAAAAA → AAAAABA → AAABAAA → ABAAAAA → AAAAAAB

Hence, the next term in the series will be 'AAAAAAB'.

Q42. Answer: (d) 15 km West

The following diagram shows the displacement of that goods carrier,

Distance between the starting point and the ending point:

=> 38 - 23 = 15 km

So, the carrier is towards the west and 15 km away from the starting point.

Hence, the correct answer is, "15 km West".

Q43. Answer: (b) Only conclusion II follows

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

Conclusion I: All brooms are mops → Does not follow. (As all mops are brooms but all brooms are mop is a possibility)

Conclusion II: All mops are brooms → follows. (As all mops are brushes and all brushes are brooms, thus all mops are broom is definite).

Thus, only conclusion II follows.

Hence, the correct answer is, "Only conclusion II follows".

Q44. Answer: (c) DEF

Designers who are not gardeners are represented by the area bounded by the circle excluding the area bounded by the triangle.

So, the figure representing the required area is shown below,

Thus, 'D, E, F' represent Floral designers who are not Gardeners.

Hence, the correct answer is, "D, E, F".

Q45. Answer: (c) XYQ

Table showing the positional value of the letters in alphabetical series,

The pattern followed here is,

Thus, the missing terms are 'XYQ'.

Hence, the correct answer is, "XYQ".

Q46. Answer: (b) 106

The pattern followed here is,

So, the missing number in the series is ‘106’.

Hence, the correct answer is, "106".

Q47. Answer: (d) (7, 49, 243)

The logic followed here is,

Second Number = (First Number)²

Third Number = (First Number)³

Checking each option for the above logic, we get

1. (4, 16, 64)

=> $4^2 = 16$; $(4)^3 = 64$

2) (5, 25, 125)

=> $(5)^2 = 25$; $(5)^3 = 125$

3) (6, 36, 216)

=> $(6)^2 = 36$; $(6)^3 = 216$

4) (7, 49, 243)

=> $(7)^2 = 49$; $(7)^3 = 343 \neq 243$

Thus, the odd pair is ‘(7, 49, 243)’.

Hence, the correct answer is, "(7, 49, 243)".

Q48. Answer: (a) [figure]

Image of the object when the mirror is placed horizontally below the object is shown below

Hence, the correct answer is, "Option 1".

Q49. Answer: (a) [figure]

The formation of the cube from the unfolded cube is shown below,

And the faces opposite are shown below,

Thus, Option 1, shown below, is not possible as the face with the star and the face with five circles should be opposite to each other.

Hence, the correct answer is "option 1".

Q50. Answer: (c) 76, 96, 40, 88

Checking each option with reference to the pattern mentioned in the question, we get

1) 42, 79, 23, 57 → B, T, K, V

2) 24, 86, 20, 85 → F, O, E, V

3) 76, 96, 40, 88 → Q, U, I, Z

4) 31, 78, 34, 88 → H, Z, M, Z

Thus, ‘QUIZ’ will be represented by ‘76, 96, 40, 88’.

Hence, the correct answer is, "76, 96, 40, 88".

Q51. Answer: (b) 5/6

Given:

The sum of the proper fraction and its reciprocal is 61/30.

Calculation:

Let the proper fraction be x/y and its reciprocal be y/x

According to the Question

$x/y + y/x = 61/30$

=> $(x^2 + y^2)/xy = 61/30$

Dividing numerators and denominators by y^2

=> $(x^2/y^2 + 1)/(xy/y^2) = 61/30$

Let $x/y = a$

=> $(a^2 + 1)/a = 61/30$

=> $30a^2 + 30 – 61a = 0$

Upon solving we get

a = 1.2 = 6/5 or, a = 0.83 = 5/6

a = x/y = 5/6

Therefore The correct answer is 5/6.

Alternate MethodCalculation:

We can check the options

Option 1

1/3 + 3/1 = 10/3

Option 2

5/6 + 6/5 = 61/30

It satisfies the given condition [No need to check other options in exam]

Option 3

3/10 + 10/3 = 109/30

Option 4

3/5 + 5/3 = 34/15

Therefore 5/6 is the required fraction

Q52. Answer: (a) 55

Given:

The sum of four consecutive odd numbers is 208.

Calculation:

Let the consecutive odd numbers be x, x + 2, x + 4, x + 6

According to the question,

x + x + 2 + x + 4 + x + 6 = 208

=> 4x + 12 = 208

=> 4x = 208 – 12

=> 4x = 196

=> x = 196/4 = 49

Therefore The largest odd number is x + 6 = 49 + 6 = 55

Additional InformationFour consecutive odd number.

x, x + 2, x + 4, x + 6

if we take x value odd number like

x = 3

3, (3 + 2), (3 + 4), (3 + 6)

3, 5, 7, 9

Q53. Answer: (c) 3

Given:

(-5x)/3 + 2 = x – 6

Calculation:

=> (-5x + 6)/3 = x – 6

=> –5x + 6 = 3x – 18

=> –5x –3x = –18 – 6

=> –8x = –24

=> x = 24/8 = 3

Therefore Value of x is 3

Q54. Answer: (c) 28

Given:

Divya and Kriti have a total of 46 candies.

Calculation:

Let the number of candies with Kriti = x
Number of candies with Divya = 46 – x
Number of candies with Divya = x + 10
According to the question,
=> x + 10 = 46 – x
=> 2x = 36
=> x = 36/2 = 18 candies
The number of candies with Divya = x + 10 = 28
Therefore Divya has 28 candies with her

Q55. Answer: (b) BC = YC

Given:
XY|| BC
angle XYB = angle BYC
Calculation:
BY is an angle bisector.
angle BYC = angle XYB ----- (1)
And as XY is parallel to BC
angle BYX = angle YBC [alternate interior angles] ----- (2)
From equation (1) and (2),
angle BYC = angle YBC
BC = YC [sides opposite to equal angles]
Therefore The correct option is 2.

Q56. Answer: (d) 14

Given:
DE || BC
AD = 3 cm; BD = 4 cm; AE = 4.4 cm and DE = 6 cm
Calculation:
In triangle ADE and triangle ABC
=>angle D = angle B
angle A is common,
triangle ADE ~ triangle ABC (Angle - Angle similarity)
Since both triangles are similar, the ratio of their respective sides are equal
AB = AD + BD = 3 + 4 = 7 cm
AD/AB = DE/BC
=> 3/7 = 6/BC
=> BC = 14 cm
Therefore The correct answer is 14 cm.

Q57. Answer: (c) 75%

Shortcut Trick
Let the Third number be 100.
Then, First number = 116.25 and Second number = 155.
Required percentage = (116.25 ÷ 155) × 100
=> 11625 ÷ 155 = 75%.
Therefore The correct answer is 75%.
Alternate Method
Given:
First number is 16.25% more than the Third number.
Second number is 55% more than the Third number.
Formula Used:
Percentage = (Target Value ÷ Reference Value) × 100

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Calculations:
=> Let the Third number be 100.
=> First number = 100 + 16.25% of 100 = 100 + 16.25 = 116.25
=> Second number = 100 + 55% of 100 = 100 + 55 = 155
=> Required Percentage = (First number ÷ Second number) × 100
=> Required % = (116.25 ÷ 155) × 100
=> Required % = (11625 ÷ 155) %
=> Required % = 75%
Therefore The correct answer is 75%.
Additional Information
Percentage Base Value
The number following 'than' or 'of' is usually taken as the base (denominator) in percentage comparison problems.
Decimal to Percentage
To convert a decimal to a percentage, multiply by 100. For example, 0.75 × 100 = 75%.
Relative Comparison
If A = x% of C and B = y% of C, then A as a percentage of B is (x ÷ y) × 100.

Q58. Answer: (b) u^2: w^2

Given:
u : v = v : w
Calculation:
u : v = v : w
=> u/v = v/w
=> v^2= uw
=> v^4 = $(uw)^2$= u^2w^2
then,
u^4: v^4= u^4: u2w2
=> u2 : w2
Therefore The correct answer is u2 : w2.

Q59. Answer: (d) Rs. 24000

Given:
R's sum = 1,65,000
S's sum = 1,95,000
Calculation:
R : S = 165000 × 12 : 195000 × 12
=> 165 : 195 = 33 : 39
Profit Share of R = 11000
Let the total profit is x
Share of R = [33/ (33 + 39)] × x
=> x = 11000 × (72/33) = 24000
=> x = Rs.24000
Therefore Total profit of both R and S is Rs. 24000.

Q60. Answer: (a) 41.125

Given:
The average of 12 numbers = 35
Concept used:
Sum of N number = average of N number × N
Calculation:
The average of 12 numbers = 35
The sum of 12 numbers = 12 × 35 = 420
Remaining average = [420 - (20 + 27 + 15 + 29)]/8 = 41.125

Therefore Average of the remaining 8 numbers is 41.125

Q61. Answer: (b) 384

Given:

Principal = Rs.3000

Rate = 20%; Time = 3 years

Formula used:

(C.I - S.I) for 3 years = P × (R/100)2 × (3 + R/100)

We know that,

=> (C.I – S.I) = 3000 × (20/100)²(3 + 20/100)

=> 3000 × (1/25) × (320/100)

=> Rs.384

Therefore Difference for 3 years between C.I and S.I is Rs.384

Alternate Method

Formula used:

S.I = (P × R × T)/100

C.I = P[{1 + (r/100)}^{n} - 1]

Calculation:

S.I = (3000 × 20 × 3)/100

=> S.I = Rs. 1800

C.I = 3000[(1 + 20/100)³ - 1]

=> C.I = 3000[(6/5)³ - 1]

=> C.I = 3000 × (91/125)

=> C.I = 2184

Difference = 2184 - 1800 = Rs.384

Therefore Difference for 3 years between C.I and S.I is Rs.384

Q62. Answer: (b) 17.65%

Calculation:

Original weight of rice = 1 kg = 1000 gm

Let cost of 1 gm is Rs. 1

Cost price of 1000 gm = Rs. 1000

The selling price of 850 gm = Rs. 1000 (Because giving only 850 gm instead of 1000 gm)

Profit = [error/ (true weight)] × 100

=> Profit = [(1000 - 850)/ 850] × 100

=> (150/850) × 100 = 17.65%

Therefore Profit % on 5 kg is equal to the profit of 1 kg which is 17.65%.

Q63. Answer: (a) Rs. 4500

Given:

Marked Price = Rs.7200

Discount = 37.5%

Formula used:

S.P = M.P × {1 - (d/100)}

Calculation:

Selling price = 7200 × [(100 - 37.5)/100]

Selling price = 7200 × (62.5/100) = Rs. 4500

Therefore Selling price of the fan is Rs.4500

Q64. Answer: (b) 14cbrt9

Calculation:

=> 2cbrt243 + 3cbrt9 + cbrt1125

=> 2cbrt(27 × 9) + 3cbrt9 + cbrt(125 × 9)

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=> 6cbrt(9) + 3cbrt9 + 5cbrt9 = 14cbrt(9)
Therefore The correct answer is 14cbrt(9).

Q65. Answer: (d) 30

Given:
24 men can repair a road in 50 days.
Concept used:
(M1 × D1)/W1 = (M2 × D2)/W2
Calculation:
According to the question
Since the work is the same in both the cases hence it is taken as 1
=> (24 × 50)/1 = [(24 + 16) × D2]/1
=> D2 = (24 × 50)/40 = 30 days
Therefore The road can be repaired in 30 days.

Q66. Answer: (d) 35

Given:
Speed of first motorcycle = 38 km/h
Speed of second motorcycle = 88 km/h
Distance between two motorcycles = 126 km
Concept used:
Distance = relative speed × time
Calculation:
Relative speed between the two motorcycles = (88 + 38) = 126 km/hr
The motorcycles will be colliding after a time which is given by: 126/126 = 1 hour = 3600 sec.
In m/sec = 126× 5/18 = 35 m/sec
In 3600 sec distance travelled by motorcycle 1 = 38000 meters
In 3600 sec distance travelled by motorcycle 1 = 88000 meters
After 3599 secs, distance covered by motorcycle 1 (d1) = 38000 – 38000/3600
After 3599 secs, distance covered by motorcycle 2 (d2) = 88000 – 88000/3600
So, the distance between 2 motorcycles is
=> 126000 – (d1 + d2) = 126000 – 126000 + 126000/3600 = 35 m
Therefore The correct answer is 35 m.
Shortcut TrickCalculation:
Relative speed between the two motorcycles = (88 + 38) = 126 km/hr
The motorcycles will be colliding after a time which is given by: 126/126 = 1 hour = 3600 sec.
In m/sec = 126× 5/18 = 35 m/sec
The distance (in metres) between the two motorcycles = 35 meter
(Because They travel 35 meter in1 second)
Therefore The correct answer is 35 meters.

Q67. Answer: (d) F

Calculation:
It is clear from the bar graph that the second lowest sales of Television were for brand F.
Therefore The correct option is 4.

Q68. Answer: (b) 2 : 1

Calculation:
From the bar graph:
Sales of A = 170000
Sales of E = 340000
Ratio of the sales of E to A is 340000 : 170000 = 2 : 1
Therefore The correct answer is 2 : 1.

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Q69. Answer: (b) 6.67%

Calculation:

Sales of brand B = 280000

Sales of brand G = 300000

=> Difference = 300000 – 280000 = 20000

Sales of brand B were less than that of brand G by = (20000/300000) × 100 = 6.67%

Therefore The correct answer is 6.67%.

Q70. Answer: (a) 240000

Calculation:

Total sales of all seven brands = (170 + 280 + 380 + 340 + 340 + 190 + 300) × 1000 = 2000000

Total tax to be paid = (12/100) × 2000000 = 240000

Therefore The correct answer is 240000.

Q71. Answer: (d) 15

Given:

Area of rhombus = 60 cm^2

Length of one diagonal (d1) = 8 cm

Formula used:

Area Of rhombus = (d1 × d2)/2

Calculation:

Area Of rhombus = (d1 × d2)/2

=> 60 = (8 × d2)/2

=> d2 = 60/4 = 15 cm

Therefore Length of another diagonal is 15 cm

Q72. Answer: (d) 77

Given:

Radius of semi-circle = 7 cm

Formula used:

Area of semi–circle = $(\pi r^2)/2$

Where r is the radius of the circle

Calculation:

Area of semicircle = $(\pi \times 7^2)/2$

=> $(22 \times 7 \times 7)/14 = 77\ cm^2$

Therefore Area of semicircle is 77 cm^2.

Q73. Answer: (d) 73.5

Given:

Side of a cube = 3.5 cm

Formula used:

Total surface area of cube = $6a^2$

Where, a = side of the cube

Calculation:

Total surface area = 6a2

=> 6 × 3.5 × 3.5 = 73.5

Therefore Total surface are of cube is 73.5 cm^2.

Q74. Answer: (d) 2/√3

Concept used:

Calculation:

=> (1/√3 + cot60^0)

=> 1/ (√3) + 1/ (√3)

=> 2/√3

Therefore value is 2/√3.

Q75. Answer: (b) 25/7

Given:

angle B = 90°

Cot C = 24/7

Calculation:

cot C = 24/7 = Base/ Perpendicular

By Pythagoras Theorem:

$H^2 = P^2 + B^2$

$\Rightarrow H^2 = (7)^2 + (24)^2$

$\Rightarrow H = \sqrt{[(7)^2 + (24)^2]}$

$\Rightarrow H = \sqrt{(576 + 49)}$

$\Rightarrow H = \sqrt{625}$

$\Rightarrow H = 25$ cm

So, Cosec C = H/ P = 25/7

Therefore The correct answer is 25/7.

Q76. Answer: (b) the supply exceeds the demand

Buyer's market denotes the place where the supply exceeds the demand. In this type of market, the buyers have the advantage of price negotiation. If the demand exceeds the supply then such type of market situation is called Seller's market.

Q77. Answer: (a) Karnataka

• Karnataka is the state with a maximum production of coffee in India with approximately 71% share of the total produce.

• Kerala is second with 21% of total share while Tamil Nadu is third with 5% share.

• Country with the maximum production of coffee is Brazil.

Q78. Answer: (c) Patagonia Plateau

Intermontane plateau refers to those plateaus which are surrounded by mountains. They are the highest plateaus of the world. Plateau of Tibet, Columbia Plateau, and Bolivian Plateau are the example of the intermontane plateau.

Q79. Answer: (a) Narmada

Tawa River is the tributary of Narmada river. It is the longest tributary of Narmada river. Its origin is in the Satpura range. It meets the Narmada at Hoshangabad district. Its length is 172 km.

Q80. Answer: (a) Mahendrapala I

The Sanskrit poet Rajshekhar lived in the court of Mahendrapala I. He wrote the Kavyamimamsa. It is a practical guide for poets in which he has explained the elements and composition of a good poem. He is best known for his play 'Karpuramanjari'.

Q81. Answer: (c) Akbar

Akbar started 'Jharokha Darshan'. It was a means to address the public audience at the balcony at forts and palaces. It facilitated face-to-face communication with the public. This practice was abolished by Aurangzeb as he considered it a non-Islamic practice.

Q82. Answer: (d) Hariprasad Chaurasia

Hariprasad Chaurasia is a world-famous flute player.

Famous Personalities	Instrument associated with them
Pandit Ravi Shankar	Sitar
Shivkumar Sharma	Santoor
Zakir Hussain	Tabla
Hariprasad Chaurasia	Flute

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Q83. Answer: (b) Norway

India has signed an agreement in September 2017 for co-operation in the health sector with Norway. It is done through Norway India Partnership Initiative (NIPI). Both the countries will co-operate to achieve Sustainable Development Goals and will align with development goals of India as outlined in its National Health Policy, 2017.

Q84. Answer: (b) Javed Akhtar

Javed Akhtar was honored with the "Hridaynath Mangeshkar Award-2017" in October 2017. He is a veteran writer and lyricist. This award was presented to him at an event in Mumbai. The event marked the 28th anniversary of Hridayesh Arts and the 80th birthday of veteran music composer Hridaynath Mangeshkar.

Q85. Answer: (d) North-West

Pakistan is located in the North-West of India. The capital of Pakistan is Islamabad with Karachi as its largest city.

Pakistan Day	**March 23, 1943**
Also known as	Pakistan Resolution Day, Republic Day
Significance	Lahore Resolution passed on 23 March 1940
Other Events	The adoption of the first constitution of Pakistan during the transition of the Dominion of Pakistan to the Islamic Republic of Pakistan on 23 March 1956 making Pakistan the world's first Islamic republic.

Q86. Answer: (d) 10, 13

Explanation:

We know that,

Atomic Number = Number of Protons/ Electrons

Here, Atomic Number = 10

Thus, No. Of Protons = 10

Mass Number = Number of Protons + Number of Neutrons

Here, Mass Number = 23

Number of Protons + Number of Neutrons = 23

Number of Neutrons = 23 – 10 = 13

Therefore Number of Protons = 10 and Number of Neutrons = 13

Q87. Answer: (b) the fuel is not burning completely

the correct answer is the fuel is not burning completely.

Key Points

• While cooking, if the bottom of the vessel is getting blackened on the outside, it means that the fuel is not burning completely.

• Sometimes, due to a lack of oxygen, the fuel does not burn completely.

• When the fuel does not burn completely then a sooty flame appears which makes the bottom of the utensil black.

• At the point when fuel doesn't consume appropriately, it starts to form incomplete burning fumes or black fumes that store on the base surface of the pot.

Additional Information

• When a hydrocarbon fuel is fully burned in oxygen, it produces mainly carbon dioxide and water.

• Incomplete combustion:- It is defined as a reaction that does not convert all the carbon and hydrogen into water or carbon dioxide.

• This kind of burning possibly happens when there is deficient oxygen to permit fuel different mixes to separate from carbon monoxide.

Q88. Answer: (c) Article 370

The correct answer is Article 370.

Key Points

• Temporary Provisions with respect to the state of Jammu and Kashmir are given in Article 370 of the Indian Constitution.

• On October 17, 1949, Article 370 was added to the Indian Constitution.

• Special provisions provided under Article 370 are

1. The state is allowed to have its own Constitution, flag, and anthem.

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2. This article can be amended only upon the recommendation of the State's Constituent Assembly.
3. The citizens enjoyed Fundamental Rights different from the rest of the country.
4. Article 360 i.e financial emergency was not applicable to the state.
5. Article 35A was also a part of it.

Additional Information

• On 5th August 2019, Article 370 was ended.
• All the special provisions provided under it were declared null and void.
• The Jammu and Kashmir Reorganisation Bill 2019 passed by the Parliament divides the state of J&K into two new Union Territories - Jammu & Kashmir and Ladakh.

Q89. Answer: (a) Only III

The correct answer is Habeas Corpus.

Key Points

• Habeas Corpus can be issued against any private individual.
• Habeas Corpus in simple terms means to have a body'.
• It is a type of writ which is issued under Article 32.
• Other writs mentioned in the same article are
1. Mandamus- command to perform a public duty.
2. Prohibition- command to the court to stop proceedings.
3. Certiorari- issued by the court to transfer a case.
4. Quo-warranto- issue to inquire the legality of a claim of a public officer.
• It is issued by the court.

Writ	Issued Against
Certiorari	A judicial or quasi-judicial body
Prohibition	A judicial or quasi-judicial body
Habeas Corpus	State or Individual

Q90. Answer: (d) Cuboidal epithelial

Epithelial tissue forms a lining all over the body of the organism in order to protect the inner lying parts. They act as a barrier that keep the different body systems separate. Cuboidal epithelial tissue forms the lining of kidney tubules and ducts of salivary glands, where it provides mechanical support.

Q91. Answer: (d) Chitin

The correct answer is Chitin.

Key Points

• Chitin is a naturally occurring biopolymer, which is a polymer created by an organism.
• Chitin is the second most abundant natural biopolymer in the world, behind only cellulose.
• Chitin is found in the exoskeletons of insects, the cell walls of fungi.
• Chitin is also found in the cell walls of certain fungi and algae.
• Chitin forms a rigid cell wall between cells, which help the organisms retain their shape.
• Chitin is not a protein but is similar to protein.
• Chitin behaves similarly to keratin.
• Chitin is made up of amino sugars.
• Chitin is a biodegradable molecule that dissolves over time.
• Chitin is a large, structural polysaccharide made from chains of modified glucose.
• Structure of Chitin:

Additional Information

Name	Description

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Suberin	• Suberin is a complex biopolymer found on the inner face of primary cell walls in aerial and root parts of the plant. - Suberin is built from poly-functional long-chain fatty acids (suberin acids) and glycerol. - Suberin is insoluble in organic solvents. - Suberin is a cell wall constituent that forms gas and watertight layers.
Pectin	• Pectin, any of a group of water-soluble carbohydrate substances that are found in the cell walls and intercellular tissues of certain plants. - Pectin is a soluble fibre known as a polysaccharide, which is a long chain of indigestible sugars. - Pectin is a fibre and contains almost no calories or nutrients. - Two main types of Pectin: - High methoxyl (HM), and - Low methoxyl (LM). - Pectin is primarily used in food production and home cooking as a thickener.
Cellulose	• Cellulose is a complex carbohydrate, or polysaccharide, consisting of 3,000 or more glucose units. - Cellulose forms via β(1 - 4) - glycosidic bonds between D-glucose units. - The microfibrils (Several polysaccharide chains are arranged in parallel arrays) of cellulose are extremely tough and inflexible due to the presence of hydrogen bonds. - Humans cannot digest cellulose, but it is important in the diet as a source of fibre.

Q92. Answer: (d) Piyush Goyal

Piyush Goyal launched the ‘Grahak Sadak Koyla Vitaran App’, in November 2017. It aims to benefit customers of Coal India Limited (CIL) by lifting coal through road. It will enhance transparency in the system of loading programme and despatch. Piyush Goyal is the Union Minister of Railways & Coal.

Q93. Answer: (b) 3200 Phaethon

3200 Phaethon is the name of the asteroid that causes Geminid meteor shower display around 15 December of every year. 3200 Phaethon is an Apollo Asteroid and it is believed that it might have undergone a collision with another object in the distant past to produce the stream of particles that Earth, which we call the meteor shower. When it approaches Sun, it sheds a huge amount of rock and dust in its path and Earth happens to pass that path every year during December 4-16.

Q94. Answer: (c) Legal Entity Identifier

RBI planned to make Legal Entity Identifier (LEI) compulsory for companies having aggregate exposure over Rs. 5 crore in October 2017. LEI is a unique 20 digit alphanumeric code used for global reference. It uniquely identifies every legal entity or structure that is party to a financial transaction, in any jurisdiction.

Q95. Answer: (b) Shakti Vahini

On January 16, 2018, the Supreme Court ruled the attacks and interference on adults opting for inter-caste marriage as ‘absolutely illegal’ in the petition filed by Shakti Vahini NGO in 2010. The court was hearing a 2010 petition by NGO Shakti Vahini against khap panchayats seeking directions to the centre and state governments for preventing honour crimes.

Q96. Answer: (a) 4

The correct answer is 4.

Key Points

We know that,

Force = mass × acceleration

8 = 2 × acceleration

Acceleration = 4 m/s^2

Q97. Answer: (d) energy

An object having a capability to do work is said to possess energy. The SI unit of energy is joule (J). There are various forms of energy like Kinetic energy, Potential energy, Chemical energy, Mechanical energy, Heat energy etc.. And according to the law of Conservation of Energy, energy can neither be created nor destroyed, it can only be converted from one form to another.

Q98. Answer: (d) ultraviolet

The ozone layer protects us from harmful Ultraviolet rays of the sun. It is present in Earth’s Stratosphere. It absorbs 97 to 99 percent of the Sun's medium-frequency UV light. It is being depleted continuously by chlorofluorocarbons (CFCs). 16 September is celebrated as the International Day for the Preservation of the Ozone Layer.

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Q99. Answer: (a) Only A

- In 2017, Michael Carrick captained the Premier League team Manchester United. Thus, statement A is correct.
- Ryu So-Yeon (South Korea) won the Golf 2017 ANA Inspiration. Thus, statement B is wrong.
- In 2018 IPL auctions, Kings XI Punjab retained Axar Patel. Thus, statement C is wrong.

Q100. Answer: (a) Charts

In MS-Excel, Charts are an excellent tool to present data in a worksheet in a visually appealing format which aids in analyzing and comparing data. There are many types of charts available and they are Column chart, Line chart, Pie chart, Doughnut chart, Bar chart, Area chart etc.

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