SSC CHSL Previous Paper 36 (Held On: 20 March 2018 Shift 1) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, some 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'.

All that we admired and adored (1)/ before as great and magnificent (2)/ has been obliterated and demolished. (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'.

An online shop evoke the analogy of buying products or services (1)/ at a regular retailer or shopping center; the process (2)/ is called business-to-consumer (B2C) e-commerce. (3)/ No error (4)

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

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

He will pay _____ for his foolishness.

(a) Dearly
(b) Deer
(c) Dear
(d) Dearest

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.

It is _____ for all the students to follow the rules.

(a) Imperative
(b) Meant
(c) Expected
(d) Abide

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

Beguile

(a) Deceive
(b) Warn

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(c) Deter
(d) Repel

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

Farcical

(a) Serious
(b) Absurd
(c) Analytical
(d) Lame

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

Abutting

(a) Touching
(b) Far
(c) Bordering
(d) Joining

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

Predicament

(a) Trouble
(b) Hardship
(c) Condition
(d) Solution

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

Attaining long-term food

P: security requires the

Q: raising of incomes and

R: making food affordable

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

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

The Chinese company manufactured those robots.

(a) Those robots were manufactured by the Chinese company.
(b) Those robots was manufacture by the Chinese company.
(c) These robots were manufactured by the Chinese company.
(d) The robots was manufactured by the Chinese company.

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.

Bunty said, “I may not come for the practice today.”

(a) Bunty says that he may not come for the practice today.
(b) Bunty says that he might not come for practice today.
(c) Bunty said that he might not come for the practice that day.
(d) Bunty told me he won’t come to the practice.

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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) Misterous
(b) Misterius
(c) Mysterous
(d) Mysterious

Directions

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

The general consensus is that the millennial _____ with taking pictures of everything stems from the tendency to over- share on social media, but it may also be a manifestation _____ our relationship with an increasingly unstable present. When everything around you _____ before you can register it, it is tempting to reach into your pocket for your smartphone, click away, and think about it later, even _____ the subject is as simple as a slice of toast. The selfie may be narcissistic, but it is _____a self-portrait that anchors you to a time and place, be it your first holiday abroad or the nightclub you visit every weekend.

Q13. is that the millennial _____ with taking pictures

(a) Obsess
(b) Obsessive
(c) Obsessed
(d) Obsession

Q14. also be a manifestation _____ our relationship

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

Q15. When everything around you _____ before you can

(a) Change
(b) Changes
(c) Changing
(d) Changed

Q16. it later, even _____ the subject is as simple

(a) By
(b) If
(c) With
(d) So

Q17. but it is _____ a self-portrait that anchors

(a) All
(b) Then
(c) Such
(d) Also

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

No dice

(a) A great gamble.
(b) Used to refuse a request or indicate that there is no chance of success.
(c) Be confident of the outcome.
(d) Make false assurances.

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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.

Keep at bay

(a) Keep your loved ones protected even when they are faced with problems.
(b) To control something and prevent it from causing you problems.
(c) Hide your precious stuff.
(d) Be alert at all times.

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

Regard with great respect

(a) Insolence
(b) Venerate
(c) Flippancy
(d) Coarseness

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

Kill someone by covering their nose and mouth so that they suffocate

(a) Bulwark
(b) Foster
(c) Sentinel
(d) Smother

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".

Learning (include) discovery, insight, understanding as well as accumulation of information.

(a) Includes
(b) Had includes
(c) Has include
(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".

We protested that we (was going) all the way to Haridwar.

(a) Is going
(b) Were going
(c) Were went
(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.

The need

A: the highways has

B: been felt over the years

C: to curb drunken driving on

(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) Unattractiveness
(b) Unatrractiveness
(c) Unattracttiveness
(d) Unatrracttiveness

GENERAL INTELLIGENCE

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

Editor : Newspaper ? ? : ?

(a) Farmer : Sell
(b) Wall : Mason
(c) Chef : Knife
(d) Poet : Poem

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

52 : 57 ? 46 : ?

(a) 53
(b) 49
(c) 55
(d) 51

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

CEG : IKM ? FHJ : ?

(a) LNP
(b) KMO
(c) LNO
(d) KMN

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

(a) Sister – Female
(b) Male – Father
(c) Brother – Male
(d) Grandmother – Female

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

(a) 14 – 28
(b) 16 – 32
(c) 18 – 36
(d) 12 – 34

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

(a) PNLJ
(b) USQO
(c) MKIG
(d) QNKH

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

1. Vicinity 2. Victory 3. Vanity 4. Vapour 5. Variety

(a) 34512
(b) 12345

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(c) 54231
(d) 42315

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

13, 16, 20, 23, 27, ?

(a) 30
(b) 29
(c) 31
(d) 33

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

BM, FQ, JU, ?, RC

(a) MX
(b) MZ
(c) NY
(d) OY

Q35. Present age of Ashok is twice the present age of Kishan. After 7 years the Kishan's age will be 4 times of the Kartik's present age. If Kartik celebrated his 9th birthday 3 years ago, then what will be the present age (in years) of Ashok?

(a) 82
(b) 78
(c) 72
(d) 84

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

Disbursement

(a) Burst
(b) Sent
(c) Barn
(d) Reib

Q37. In a certain code language, "TURTLE" is written as "RRNRIA". How is "LOYALS" written in that code language?

(a) ULJOPY
(b) JLUYIO
(c) YOKLJV
(d) VJLOIP

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

8 × 10 ÷ 20 - 5 + 14 = ?

(a) 34
(b) 27
(c) 45
(d) 9

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

14 + 18 × 40 - 10 ÷ 20 = 66

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

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Q40. If 7Ω6 = 84, 8Ω7 = 112 and 8Ω4 = 64, then find the value of 3Ω4 =

(a) 24
(b) 12
(c) 4
(d) 20

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

CCABABAB, ACCBABAB, ABCCABAB, ABACCBAB, ABABCCAB, _____.

(a) ABABABCC
(b) CCABABAB
(c) ABABACCB
(d) ACCBABAB

Q42. A leopard is chasing a prey. The leopard runs 2 km South, then turns West and runs 2.5 km, then turns North and runs 1.5 km, then it turns to its right and runs 2.5 km. Where is it now with respect to the starting position?

(a) 3.5 km South
(b) 0.5 km North
(c) 0.5 km South
(d) 3.5 km North

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

Statement I: No medals are trophies.

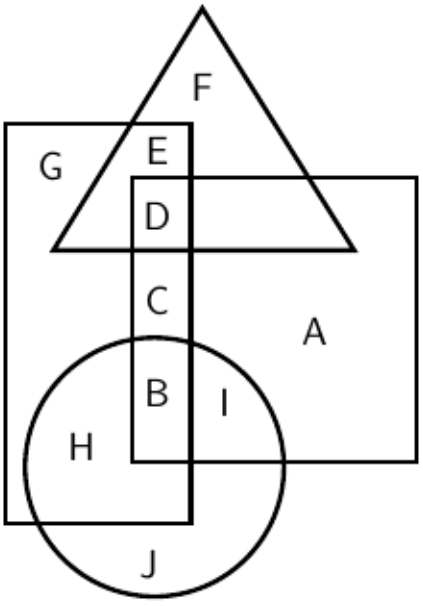
Statement II: No badges are medals.

Conclusion I: All trophies are badges.

Conclusion II: Some badges are trophies.

(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 Actors, circle represents Curators, triangle represents Poets and square represents Fathers. Which set of letters represents Poets who are not Fathers?



(a) BI
(b) FE
(c) HB

(d) DC

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

VXK, QSF, LNA, GIV, ?

(a) DFS
(b) ACP
(c) CER
(d) BDQ

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

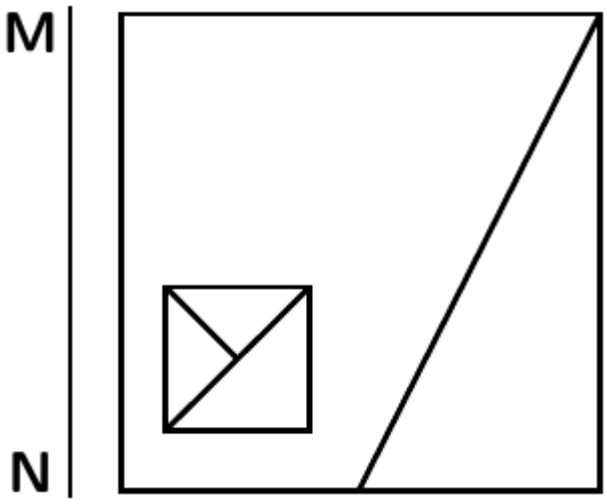
15, 22, 31, 42, 55, ?

(a) 60
(b) 68
(c) 70
(d) 74

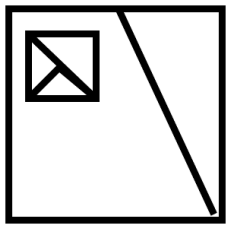
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (14, 42, 59)
(b) (15, 45, 61)
(c) (13, 39, 53)
(d) (12, 36, 49)

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

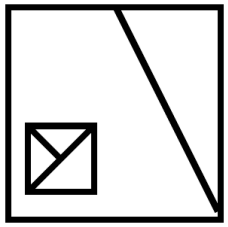


(a)

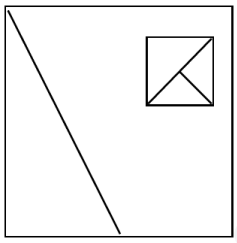


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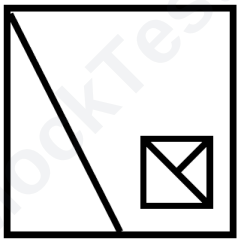
(b)



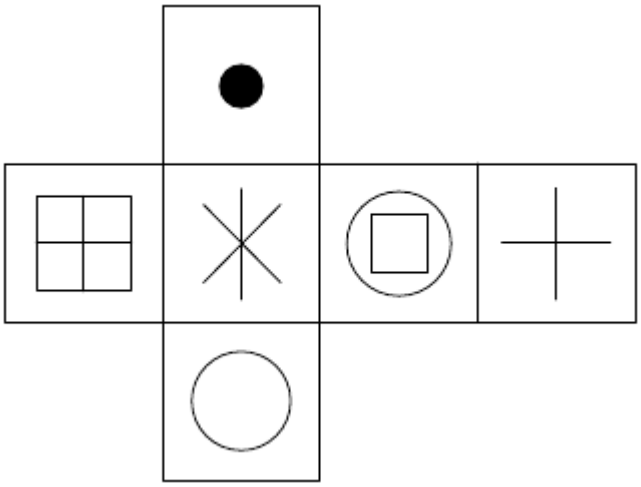
(c)



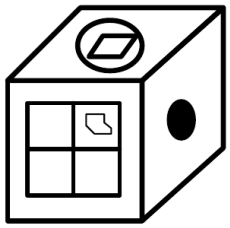
(d)



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

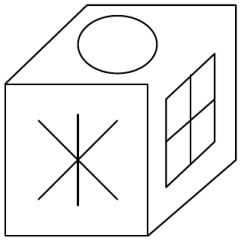


(a)

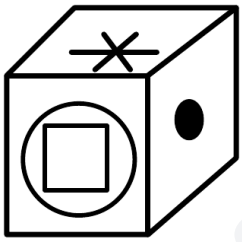


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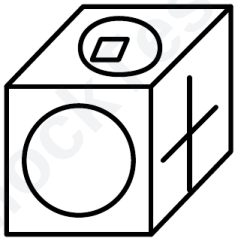
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The set of numbers given in the alternatives are represented by two classes of alphabets as sgown in the given two matrices. The coulmns 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 coulm, for example ‘H’ can be represented by, 23, 42 etc and ‘Z’ can be represented by 56, 78 etc. Similarly, you have to identify the set for the word ‘YORK’.

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

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

(a) 41, 67, 20, 88
(b) 99, 77, 86, 41
(c) 44, 65, 40, 98

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(d) 23, 95, 14, 89

QUANTITATIVE APTITUDE

Q51. In a fraction when 3 is added to its numerator and denominator it becomes 3/5. And it becomes 3/7 when 3 is subtracted from both the numerator and denominator. Find the fraction.

(a) 12/17
(b) 14/17
(c) 9/17
(d) 11/19

Q52. Find the approximate value of '?' in: $(14.998)^3$ = ?

(a) 3573
(b) 4096
(c) 3378
(d) 3374

Q53. If $(x – 7)^2 + (y + 10)^2 + (z – 6)^2 = 0$, then find the value of x + y + z

(a) 1
(b) 3
(c) 5
(d) 7

Q54. If n + n/2 + n/4 + n/8 = 45~~, then find the value of 'n' which will satisfy the equation.

(a) 16
(b) 24
(c) 36
(d) 48

Q55. Calculate the ratio of the area of two similar triangles if the sides of the triangles are in the ratio of 9 : 4.

(a) 9 : 4
(b) 3 : 2
(c) 81 : 16
(d) 27 : 8

Q56. Which of the following represents the sides of an acute angled triangle?

(a) 6, 9, 16
(b) 7, 8, 10
(c) 5, 12, 13
(d) None of these

Q57. Out of two numbers, 65% of the smaller number is equal to 45% of the larger number. If the sum of two numbers is 2574, then what is the value of the larger number?

(a) 1521
(b) 1471
(c) 1641
(d) 1419

Q58. If 4/7 of P is equal to 12/14 of Q, then what is P : Q?

(a) 15 : 8
(b) 14 : 9
(c) 7 : 8
(d) 3 : 2

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Q59. In what ratio wheat costing Rs. 17/ kg should be mixed with another wheat costing Rs. 12/kg to get a mixture costing Rs. 13.5/ kg?

(a) 1 : 2
(b) 2 : 5
(c) 3 : 7
(d) 4 : 9

Q60. Average age of 5 students of a school is 14 years. The average age of students and their Mathematics and science teachers is 30 years. If the age of science teacher is 6 years more than the age of Mathematics teacher, then what is the age (in years) of Mathematics teacher?

(a) 67
(b) 68
(c) 56
(d) 74

Q61. A sum of Rs 6000 becomes Rs. 7200 in 2 years, when invested in a scheme of simple interest. If the same sum is invested in a scheme of compound interest with same yearly interest rate (compounding of interest is done yearly), then what will be the amount (in Rs.) after 3 years?

(a) 7434
(b) 8244
(c) 7864
(d) 7986

Q62. Vinay professes to lose 4% on sugar and uses a weight of 620 gm instead of 1 kg. What is the total profit percentage?

(a) 44.24
(b) 34.14
(c) 35.41
(d) 54.84

Q63. Two successive discounts of 10% and 25% are given by Raman on a shirt. If the marked price of the shirt is Rs. 600, then what is the value (in Rs) of discount?

(a) 195
(b) 185
(c) 155
(d) 135

Q64. What is the square root of $(\sqrt{5} + 2)/(\sqrt{5} – 2)$?

(a) $\sqrt{5} – \sqrt{4}$
(b) $\sqrt{5} + 2$
(c) $5 + \sqrt{2}$
(d) 7

Q65. P does half as much work as Q in 1/3 of the time. If together they take 15 days to complete a work, how many days will P take to do it alone?

(a) 18
(b) 25
(c) 24
(d) 21

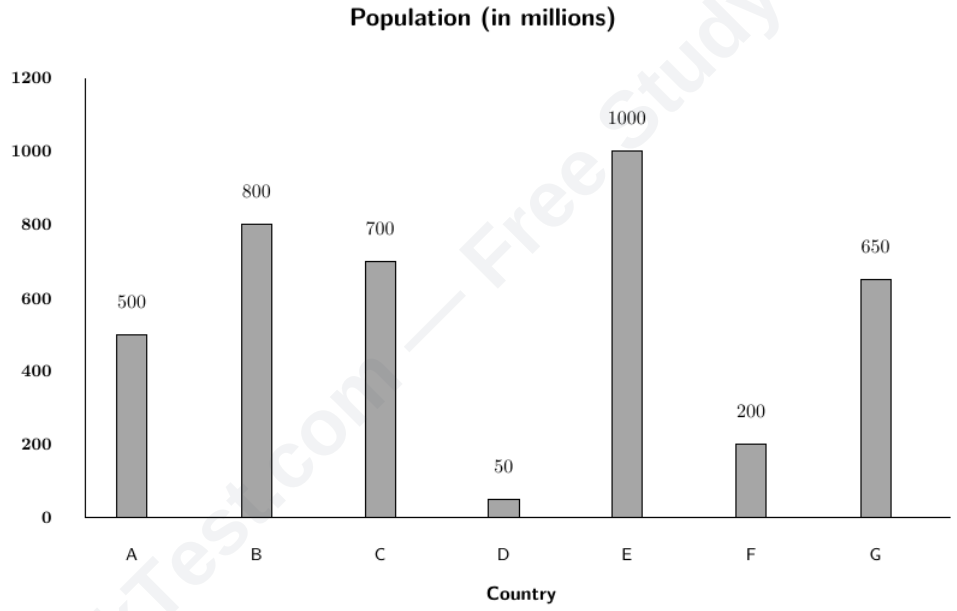
Q66. A girl walking at the speed of 2 km/hr covers a certain distance in 7 hours 30 minutes. If she covers the same distance by cycle in 5 hours, then what is the speed (in km/hr) of the cycle?

(a) 2.5
(b) 4
(c) 3
(d) 3.5

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Directions

Direction: The bar graph shows the population of different countries. Study the diagram and answer the following questions.



Q67. Which country has the second highest population?

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

Q68. What is the ratio of population of country A to that of country G?

(a) 13 : 10
(b) 10 : 13
(c) 5 : 13
(d) 13 : 5

Q69. Population of country E is greater than that of country A by _____.

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

Q70. If country D spends $120 per person on health annually, then how much does it spend (in $ millions) on health on its entire population?

(a) 6000
(b) 600
(c) 2400
(d) 240

Q71. The length and the diagonal of a rectangle are 8 cm and 17 cm respectively. Find its area (in cm^2).

(a) 240
(b) 120
(c) 80
(d) 160

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Q72. If the measure of the interior angle of a regular polygon is 120^o then how many sides does it have?

(a) 6
(b) 8
(c) 9
(d) 10

Q73. Find the total surface area (in cm²) of a hemisphere of diameter 21 cm.

(a) 1039.5
(b) 844.5
(c) 637
(d) 472

Q74. What is the value of (sin 45° – √3)?

(a) (1 – √6)/√2
(b) (4 – √3)/2√3
(c) -1/2√3
(d) (2 – √3)/2√3

Q75. In ΔDEF measure of angle E is 90°. If cotD = 8/15, and DE = 16 cm, then what is the length (in cm) of side EF?

(a) 34
(b) 15
(c) 30
(d) 14

GENERAL AWARENESS

Q76. Skills that can be transferred to other employers are called _____.

(a) General skills
(b) Specific skills
(c) Non-economic skills
(d) All options are correct.

Q77. Which one of the following industries is the biggest consumer of water in India?

(a) Engineering
(b) Paper and pulp
(c) Textiles
(d) Thermal power

Q78. Which of the following regions receives rainfall throughout the year?

(a) Tundra
(b) Monsoon
(c) Mediterranean
(d) Equatorial

Q79. Kolleru Lake is located in which Indian state?

(a) Kerala
(b) Andhra Pradesh
(c) Tamil Nadu
(d) Odisha

Q80. During the reign of which Mughal ruler was the 'Jizya' re-imposed?

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

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Q81. In which of the following years sea travel has been made mandatory for Indian soldiers?

(a) 1854 AD
(b) 1856 AD
(c) 1857 AD
(d) 1858 AD

Q82. What is considered the most important fundamental principle of Jainism?

(a) Karma
(b) Non-violence
(c) Dispassion (Virag)
(d) Loyalty

Q83. As per a MoU signed in November 2017, India will provide financial assistance of $ 2.87 million for the public transport system to which Asian country?

(a) Sri Lanka
(b) Afghanistan
(c) Myanmar
(d) Bangladesh

Q84. Who among the following claimed the top spot on Forbes 2017 list of the world's highest paid actresses, released on August 16, 2017?

(a) Frances McDormand
(b) Saoirse Ronan
(c) Emma Stone
(d) Elisabeth Moss

Q85. Which crop was first cultivated in Sri Lanka under plantation agriculture?

(a) Coffee
(b) Tea
(c) Rubber
(d) Coconut

Q86. Which of the following element is NOT a metal?

(a) Al
(b) P
(c) Ca
(d) K

Q87. Charge on proton is equal to the charge on _____.

(a) Electron
(b) Positron
(c) Neutron
(d) Alpha particle

Q88. In India, the oath of secrecy to union ministers is administered by whom?

(a) The Prime Minister of India
(b) Comptroller and Auditor General of India
(c) The President of India
(d) Chief Justice of India

Q89. After how much time the laws made by Parliament on the state subjects during a National Emergency become inoperative and cease to operate?

(a) Three months
(b) Six months
(c) Nine months

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(d) Twelve months

Q90. Match the following :

Type of Muscle Tissue	Cell Shape
I. Striated	1. Long, cylindrical & unbranched
II. Smooth	2. Long with pointed ends (spindle shaped)
III. Cardiac	3. Cylindrical & branched

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

Q91. Which of the following groups is/are called phanerogams?

I. Thallophyte
II. Bryophyte
III. Pteridophyte

(a) Only I
(b) Only II
(c) All I, II and III
(d) No option is correct.

Q92. In January 2018, 'Swachh Survekshan 2018' was launched. It will rank how many cities on the National level which have more than 1 lakh population?

(a) 200
(b) 400
(c) 600
(d) 500

Q93. In November 2017, scientists introduced fully functional artificial muscle to recover damages of _____.

(a) Heart
(b) Lungs
(c) Kidney
(d) Liver

Q94. On 5 March 2017, who launched an artificial intelligence – driven chatbot named 'EVA (Electronic Virtual Assistant)' for customer services?

(a) ICICI Bank
(b) State Bank of India
(c) HDFC Bank
(d) Bank of Baroda

Q95. On 31 January 2018, the Ministry of Railway announced to set up a massive rail coach factory in which region of Maharashtra?

(a) Konkan
(b) Khandesh
(c) Paschim Maharashtra
(d) Marathwada

Q96. Calculate the time period (in seconds) of a sound wave of wavelength 5m travelling with a speed of 500 m/s.

(a) 0.01
(b) 2500
(c) 0.02
(d) 1250

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Q97. During the free fall of the object, the decrease in potential energy, at any point in its path, appears as an equal amount of increase in _____.

(a) Kinetic energy
(b) Work done
(c) Heat energy
(d) Gravitational force

Q98. Water which is suitable for drinking is called _____ water.

(a) hygienic
(b) sparkling
(c) potable
(d) sanitary

Q99. Which of the statements given below are correct?

A) In 2017 Pro Kabaddi League, Manjeet Chillar played for team Tamil Nadu.
B) Pakistan hosted the Badminton 2017 BWF Super Series Finals.
C) India hosted the Badminton 2017 BWF World Senior Championships.

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

Q100. Web applications are designed to interpret _____ to display text, images etc

(a) HTML
(b) Hyperlinks
(c) Computers
(d) World Wide Web

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) 3

The correct answer is option 3.

The error is in the third part of the sentence. 'All' refers to the total number of people or things of a group. There is a minimum of three things in the group. Hence, all take a plural verb.

We have to replace 'has been' with 'have been' in the third part of the sentence.

• Let's see some examples:

• All of the pages are yellow and old.

• All of the fish in the pond have died.

So the correct answer is:

All that we admired and adored before as great and magnificent have been obliterated and demolished.

Q2. Answer: (a) 1

The correct analysis- 'error lies in the part-1'

Key Points

• Using 'evokes' in the place of 'evoke' makes the sentence errorless.

• In the sentence 'an online shop' is a singular subject and it will be followed by a singular verb and in the present indefinite we know that 'verb' is followed by 's/es'. So that replaces 'evokes' instead 'evoke'

• Structure of Present Indefinite:- Sub + V1 + s/es + object

• Example: He goes to the market.

The correct sentence is- An online shop evokes the analogy of buying products or services (1)/ at a regular retailer or shopping center; the process (2)/ is called business-to-consumer (B2C) e-commerce.

Q3. Answer: (a) Dearly

The correct answer is- 'Dearly'

Key Points

• Using 'Dearly' is in the blank space to make the sentence correct.

• The word 'Dearly' is an adverb and it means 'very much'. 'Dearly' is qualifying to the verb 'pay' in the sentence. It is the most suitable option according to the context of the question.

• Example: She will be dearly missed by her family and friends.

The correct sentence is- He will pay dearly for his foolishness.

Q4. Answer: (a) Imperative

The correct answer is- 'Imperative'

Key Points

• Using 'Imperative' is an adjective and it means 'extremely important or urgent'. It is the most suitable option here according to the context of the given sentence.

• Example: It's imperative to act now before the problem gets really serious.

The correct sentence is- It is Imperative for all the students to follow the rules.

Additional Information

WORDS	MEANING
Meant	intend to convey, indicate, or refer to (a particular thing or notion); signify.
Expected	believed to be going to happen or arrive
Abide	accept or act in accordance with (a rule, decision, or recommendation).

Q5. Answer: (a) Deceive

The correct answer is- 'Deceive'

Key Points

• 'Beguile' is a verb and it means 'to persuade, attract, or interest someone, sometimes in order to deceive them' so that the similar word of 'Beguile' is 'Deceive'. It is the most suitable option here.

• Example: He was completely beguiled by her beauty.

Hence option 1 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Warn	inform someone in advance of impending or possible danger, problem, or other unpleasant situation.
Deter	discourage (someone) from doing something by instilling doubt or fear of the consequences.

Repel	drive or force (an attack or attacker) back or away.

Q6. Answer: (b) Absurd

The correct answer is- 'Absurd'

Key Points

• 'Farcical' is an adjective and it means 'very silly, unlikely, or unreasonable, often in a way that is humorous' so that the similar word of 'Farcical' is 'Absurd'. It is the most suitable option here.

• Example: The whole situation has become farcical.

• Absurd: not at all logical or sensible; ridiculous

• Example: It would be absurd to spend all your money on one book.

Hence option 2 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Serious	(of a subject, state, or activity) demanding careful consideration or application.
Analytical	relating to or using analysis or logical reasoning.
Lame	(especially of an animal) unable to walk without difficulty as the result of an injury or illness affecting the leg or foot.

Q7. Answer: (b) Far

The correct answer is- 'Far'

Key Points

• 'Abutting' is a verb and it means 'If a building or area of land abuts something or on something, it is next to it or touches it on one side' so that the opposite word of 'Abutting' is 'Far'. It is the most suitable option here.

• Example: Their house abutted onto the police station.

Hence option 2 is the most appropriate answer here

Additional Information

WORDS	MEANING
Touching	arousing strong feelings of sympathy, appreciation, or gratitude.
Bordering	form an edge along or beside (something).
Joining	link; connect.

Q8. Answer: (d) Solution

The correct answer is- 'Solution'

Key Points

• 'Predicament' is a noun and it means 'an unpleasant situation that is difficult to get out of' so that the opposite word of 'Predicament' is 'Solution'. It is the most suitable option here.

• Example: She is hoping to get a loan from her bank to help her out of her financial predicament.

Hence option 4 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Trouble	difficulty or problems.
Hardship	severe suffering or privation.
Condition	the state of something with regard to its appearance, quality, or working order.

Q9. Answer: (c) PQR

The correct answer is- 'PQR'

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Key Points

• A sentence can't end with the or and. Thus, neither P nor Q can be last => Option 3) PQR is the correct answer.

The correct sentence is- Attaining long term food security requires the raising of incomes and making food affordable.

Q10. Answer: (a) Those robots were manufactured by the Chinese company.

The correct answer is- 'Those robots were manufactured by the Chinese company.'

Key Points

• In the given question the sentence 'The Chinese company manufactured those robots.' is in 'Active voice' which is in the past indefinite and we know that after converted this sentence into 'Passive voice' the tense will same which also should in past indefinite.

• Struture Past indefinite:

• Sub + V2 + object (Active)

• Object + was/were+ V3 + by + subject (Passive)

• Let's see the example:

• Reema cleaned the floor (Active)

• The floor was cleaned by Reema (Passive)

Hence the correct sentence is- Those robots were manufactured by the Chinese company.

Q11. Answer: (c) Bunty said that he might not come for the practice that day.

The correct answer is- 'Bunty said that he might not come for the practice that day'

Key Points

• When we change into reported speech, may => might and today => that day. Hence option 3 is the most appropriate here.

The correct sentence is- Bunty said that he might not come for the practice that day.

Q12. Answer: (d) Mysterious

The correct answer is- 'Mysterious'

Key Points

• 'Mysterious' is an adjective and it means 'strange, not known, or not understood'

• Example: He died in mysterious circumstances, and there is still a possibility that it was murder.

Here, the correct spelling is- Mysterious

Q13. Answer: (d) Obsession

The correct answer is- 'Obsession'

Key Points

• Millenial = has been used as an adjective here; as in pertaining to people who attain adulthood in the 21st century. Thus, the blank must contain a noun for it. Option 4) Obsession (passion; compulsion) is the correct answer.

The correct sentence is- is that the millennial obsession with taking pictures

Q14. Answer: (c) Of

The correct answer is- 'Of'

Key Points

• Using 'of' is in the blank space to make the sentence correct.

• Manifestation = symptom; sign. The sentence aims to say that the sign is related to our relationship... Thus, Option 3) 'of' aptly describes the context.

The correct sentence is- also be a manifestation of our relationship

Q15. Answer: (b) Changes

The correct answer is- 'Changes'

Key Points

• Using 'changes' is in the blank space to make the sentence correct.

• Before you can register it => we will use the simple present tense. Rule out 3) and 4). Everything => singular => use Option 2) changes.

The correct sentence is- When everything around you changes before you can

Q16. Answer: (b) If

The correct answer is- 'If'

Key Points

• Using 'if' is in the blank space to make the sentence correct.

• The statement states a condition that it may be as simple as a slice of toast. Condition => use 2) 'if'.

The correct sentence is- it later, even if the subject is as simple

Q17. Answer: (d) Also

The correct answer is- 'Also'

Key Points

• Using 'also' is in the blank space to make the sentence correct.

• The sentence aims to say that along with the possibility of being narcissistic, it is a self-portrait too. Too = also. Option 4) is the correct answer.

The correct sentence is- but it is also a self-portrait that anchors

Q18. Answer: (b) Used to refuse a request or indicate that there is no chance of success.

The correct answer is- 'Used to refuse a request or indicate that there is no chance of success.'

Key Points

• 'No dice' is an idiom and it means 'If you are trying to achieve something and you say that it's no dice, you mean that you are having no success or luck with it.'

• Example: If there'd been a halfway decent house for rent on this island, I would have taken it. But it was no dice.

Hence option 2 is the most appropriate answer here.

Q19. Answer: (b) To control something and prevent it from causing you problems.

The correct answer is- 'To control something and prevent it from causing you problems.'

Key Points

• 'Keep at bay' is an idiom and it means 'to prevent someone from moving closer'

• Example: He held the police at bay for several hours.

Hence option 2 is the most appropriate answer here.

Q20. Answer: (b) Venerate

The correct answer is- 'Venerate'

Key Points

• The word 'Venerate' is a verb and it means 'to honour or very much respect a person or thing'

• Example: Robert Burns is Scotland's most venerated poet.

Hence option 2 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Insolence	rude and disrespectful behavior.
Flippancy	the quality of not being serious about a serious subject, in an attempt to be funny or to appear clever
Coarseness	rough and not smooth or soft, or not in very small pieces

Q21. Answer: (d) Smother

The correct answer is- 'Smother'

Key Points

• The word 'Smother' is a verb and it means 'to kill someone by covering their face so that they cannot breathe'

• Example: They threatened to smother the animals with plastic bags.

Hence option 4 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Bulwark	a defensive wall.

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Foster	encourage or promote the development of (something, typically something regarded as good).
Sentinel	a soldier or guard whose job is to stand and keep watch.

Q22. Answer: (a) Includes

The correct answer is- 'Includes'

Key Points

• Using 'includes' in the place of 'include' to make the sentence correct.

• We know that 'learning' is the singular subject so that it will be followed by the singular verb. In the present indefinite tense verb will come with 's/es'. So that replaces 'includes' instead of 'include'.

• Structure of Present Indefinite:- Sub + V1 + s/es + object

• Example: Ram goes to the market.

The correct sentence is- Learning includes discovery, insight, understanding as well as accumulation of information.

Q23. Answer: (b) Were going

The correct answer is- 'Were going'

Key Points

• Using 'were going' in the place of 'was going' to make the sentence correct.

• In the given sentence 'We' is the plural subject so it will be followed by the plural verb 'were'. Option 2 is the best suitable option here.

• Structure of Past continuous:- Sub + was/were + V1 + ing + object

• Example: Ram was going to the temple.

The correct sentence is- We protested that we were going all the way to Haridwar.

Q24. Answer: (b) CAB

The correct answer is- *'*CAB'

Key Points

The need and The need been felt = grammatically incorrect phrases. Neither A nor B can be first. Option 2) CAB is the only possible correct choice.

The correct sentence is- The need to curb drunken driving on the highways has been felt over the years.

Q25. Answer: (a) Unattractiveness

The correct answer is- 'Unattractiveness'

Key Points

• 'Unattractiveness' is a noun and it means 'not attractive: plain, dull.'

• Example: Fortunately their heady, heavenly aroma more than compensates for their physical unattractiveness.

Here, the correct spelling is- Unattractiveness

Q26. Answer: (d) Poet : Poem

As newspaper is brain child of an editor, in the same way poem is the brain child of a poet.

Hence, “Poet : Poem” is the correct answer.

Q27. Answer: (d) 51

The pattern followed here is,

52 + 5 = 57

Similarly,

46 + 5 = 51

Hence, the correct answer is " 51 ".

Q28. Answer: (a) LNP

The pattern followed here is:-

CEG is related to IKM as:-

Similarly,

FHJ is related to LNP as:-

Hence, the correct answer is "LNP".

Q29. Answer: (b) Male – Father

The logic used here,

→ (Relation – Gender).

Let's check each option,

Options	Relation	Gender
1	Sister	Female
2	Male	Father
3	Brother	Male
4	Grandmother	Female

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

Hence, the correct answer is " Male – Father ".

Q30. Answer: (d) 12 – 34

The logic used here is,

→ Second Number = (First Number × 2).

Let's check each option as per the logic,

1) 14 – 28

→ 28 = 14 × 2.

2) 16 – 32

→ 32 = 16 × 2.

3) 18 – 36

→ 36 = 18 × 2.

4) 12 – 34

→ 34 ≠ 12 × 2.

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

Hence, the correct answer is " 12 – 34 ".

Q31. Answer: (d) QNKH

The pattern followed here is:-

As can be seen clearly from the above that QNKH doesn't follow the pattern and thus, is the odd one out.

Hence, the correct answer is "QNKH".

Q32. Answer: (a) 34512

On arranging word as per dictionary order,

3) Variety

4) Vicinity

5) Victory

1) Vanity

2) Vapour

Hence, the correct answer is " 34512 ".

Q33. Answer: (a) 30

The pattern followed here is:-

Hence, the correct answer is "30".

Q34. Answer: (c) NY

The pattern followed here is:-

Hence, the correct answer is "NY".

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Q35. Answer: (a) 82

Given:-

Kartik celebrated his 9th birthday 3 years ago. So,

The present age of Kartik → 9 + 3 = 12 years.

After 7 years Kishan's age will be 4 times of the Kartik's present age. So,

The Present age of Kishan + 7 → 4 × 12

The Present age of Kishan → (4 × 12) - 7 → 48 - 7 = 41 years

The Present age of Ashok is twice the Present age of Kishan. So,

The Present age of Ashok → 2 × 41 = 82 years

Hence, the correct answer is "82"

Q36. Answer: (c) Barn

1) Burst → Disbursement

2) Sent → Disbursement

3) Barn → Disbursement, this word cannot be formed as there is no A in Disbursement.

4) Reib → Disbursement

Hence, the correct answer is " Barn ".

Q37. Answer: (b) JLUYIO

The pattern followed here is:-

TURTLE is written as RRNRIA as:-

Similarly,

LOYALS is written as JLUYIO as:-

Hence, the correct answer is "JLUYIO".

Q38. Answer: (a) 34

Given:-

8 × 10 ÷ 20 - 5 + 14

Symbol	Meaning
×	•
÷	×
•	÷
•	•

After changing the symbols, we get:-

New Equation → 8 + 10 × 20 ÷ 5 - 14

After applying BODMAS rule and solving the equation, we get:-

8 + 10 × 20 ÷ 5 - 14

8 + 10 × 4 - 14

8 + 40 - 14

48 - 14 = 34

Hence, the correct answer is "34".

Q39. Answer: (d) ÷ and -

Given:-

Equation → 14 + 18 × 40 - 10 ÷ 20 = 66

Now, Checking options one by one:-

1) + and ×

By interchanging + and ×, we get:-

New Equation → 14 × 18 + 40 - 10 ÷ 20 = 66

After applying BODMAS Rule and solving the equation, we get:-

14 × 18 + 40 - 10 ÷ 20 = 66

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14 × 18 + 40 - 0.5 = 66
252 + 40 - 0.5 = 66
292 - 0.5 = 66
291.5 ≠ 66
Left hand side is not equal to right hand side.
2) + and ÷
By interchanging + and ÷, we get:-
New Equation → 14 ÷ 18 × 40 - 10 + 20 = 66
After applying BODMAS Rule and solving the equation, we get:-
14 ÷ 18 × 40 - 10 + 20 = 66
0.77 × 40 - 10 + 20 = 66
30.8 - 10 + 20 = 66
30.8 + 20 - 10 = 66
50.8 - 10 = 66
40.8 ≠ 66
Left hand side is not equal to right hand side.
3) - and +
By interchanging - and +, we get:-
New Equation → 14 - 18 × 40 + 10 ÷ 20 = 66
After applying BODMAS Rule and solving the equation, we get:-
14 - 18 × 40 + 10 ÷ 20 = 66
14 - 18 × 40 + 0.5 = 66
14 - 720 + 0.5 = 66
14 + 0.5 - 720 = 666
14.5 - 720 = 66
-705.5 ≠ 66
Left hand side is not equal to right hand side.
4) ÷ and -
By interchanging ÷ and -, we get:-
New Equation → 14 + 18 × 40 ÷ 10 – 20 = 66
After applying BODMAS Rule and solving the equation, we get:-
14 + 18 × 40 ÷ 10 – 20 = 66
14 + 18 × 4 - 20 = 66
14 + 72 - 20 = 66
86 - 20 = 66
66 = 66
Left hand side is equal to right hand side.
Hence, the correct answer is "÷ and -".

Q40. Answer: (a) 24

The pattern followed here is:-
First number × Second number → Product × 2 = Resultant value
7 × 6 = 42 → 42 × 2 = 84
8 × 7 = 56 → 56 × 2 = 112
8 × 4 = 32 → 32 × 2 = 64
Similarly,
3 × 4 = 12 → 12 × 2 = 24
Hence, the correct answer is "24".

Q41. Answer: (c) ABABACCB

The pattern followed here is,

C	**C**	**A**	**B**	**A**	**B**	**A**	**B**

A	C	C	B	A	B	A	B
A	B	C	C	A	B	A	B
A	B	A	C	C	B	A	B
A	B	A	B	C	C	A	B
A	B	A	B	A	C	C	B

Here in the 1^(st) term the first two elements i.e. CC shift one position in right direction.

Hence the next term will be “ABABACCB”.

Q42. Answer: (c) 0.5 km South

Hence, the leopard is 0.5 km south from its starting position.

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

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

Conclusions:

I) All trophies are badges → Doesn't follow (as no direct relationship is given between trophies and badges so, it is not definite that all trophies are badges)

II) Some badges are trophies → Doesn't follow (as no direct relationship is given between badges and trophies so, it is not definite that some badges are trophies)

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

Q44. Answer: (b) FE

Given:-

Rectangle represents Actors, Circle represents Curators, Triangle represents Poets and Square represents Fathers.

Set of letters in Rectangle that represents Actors are → B C D E G H

Set of letters in Circle that represents Curators are → B H I J

Set of letters in Triangle that represents Poets are → D E F

Set of letters in Square that represents Fathers are → A B C D I

Set of letters that represents Poets who are not Fathers are → Set of letters in Triangle that represents Poets - Common Set of letters of Triangle (that represents Poets) and Square (that represents Fathers)

The shaded portion below represents the Set of letters that represents Poets who are not Fathers i.e. → D E F - (D) = FE

Hence, the correct answer is "FE".

Q45. Answer: (d) BDQ

The pattern followed here is:-

Hence, the correct answer is "BDQ".

Q46. Answer: (c) 70

The pattern followed here is:-

Hence, the correct answer is "70".

Q47. Answer: (a) (14, 42, 59)

The logic followed here is:-

First number × 3 = Second Number

First number × 4 + 1 = Third Number

1) In (14, 42, 59)

Second number → 14 × 3 = 42

Third number → 14 × 4 + 1 = 57 ≠ 59

2) In (15, 45, 61)

Second number → 15 × 3 = 45

Third number → 15 × 4 + 1 = 61

3) In (13, 39, 53)

Second number → 13 × 3 = 39

Third number → 13 × 4 + 1 = 53

4) In (12, 36, 49)

Second number → 12 × 3 = 36

Third number →12 × 4 + 1 = 49

As can be seen clearly from the above that (14, 42, 59) doesn't follow the logic and thus is the odd one out.

Hence, the correct answer is "(14, 42, 59)".

Q48. Answer: (d) [figure]

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

Hence, the correct answer is "Option 4".

Additional Information

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

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

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

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

Q49. Answer: (a) [figure]

From the figure we can conclude :

1) The face of the dice with a dot will be opposite to the circle.

2) The face of the dice with + will be opposite to *.

3) The face of the dice with four squares will be opposite to the square inscribed in a circle.

In the above figure (Option 1), the top surface of the cube is adjacent to the side having four squares, which is not possible.

Hence, the correct answer is " Option 1 ".

Q50. Answer: (b) 99, 77, 86, 41

The pattern followed here is:-

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

1) 41 → K, 67 → W, 20 → G, 88 → Q (so, the letter cluster formed is KWGQ)

2) 99 → Y, 77 → O, 86 → R, 41 → K (so, the word formed is 'YORK')

3) 44 → M, 65 → W, 40 → A, 98 → P (so, the letter cluster formed is MWAP)

4) 23 → H, 95 → O, 14 → F, 89 → S (so, the letter cluster formed is HOFS)

Hence, the correct answer is "99, 77, 86, 41".

Q51. Answer: (c) 9/17

Calculation:

Let the fraction be x/y

When 3 is added to both the numerator and denominator of the fraction, we get

(x + 3)/(y + 3) = (3/5)

=> 5x + 15 = 3y + 9

=> 5x + 6 = 3y ----(1)

When 3 is subtracted with both the numerator and denominator of the fraction,

(x – 3)/(y – 3) = (3/7)

=> 7x – 21 = 3y – 9

=> 7x – 12 = 3y ----(2)

Substituting the value of ‘y’ from Equation 2 in Equation 1, we get

5x + 6 = 7x - 12

=> 2x = 18

=> x = 9

=> y = [(5 × 9) + 6]/3 =17

Therefore Required Fraction = (x/y) = 9/17

Q52. Answer: (d) 3374

Calculation:

We know that 15^3= 3375

So, $(14.998)^3$ will be less than 3375 and the only option which satisfies this condition is 3374

Q53. Answer: (b) 3

Calculation:

We can see that all the terms in the given problem is a square and the square of any number is always positive. So, the sum can never be zero

The only possibility is when each term in the bracket is equal to 0

That is x – 7 = 0, y + 10 = 0, z – 6 = 0

The values of x, y, z will therefore be 7, -10 and 6 respectively

Therefore Value of (x + y + z) = 7 + (-10) + 6 = 13 – 10 = 3

Q54. Answer: (b) 24

Calculation:

LCM of (2, 4, 8) is 8

Multiplying each term on both sides with 8, we get

8n + 4n + 2n + n = (45 × 8)

=> 15n = 360

=> n = 360/15 = 24

Therefore Value of 'n' which satisfies the given equation is 24

Q55. Answer: (c) 81 : 16

Given:

Ratio of sides of similar triangles = 9/4

Concept used:

If two triangles are similar, ratio of areas is equal to the ratio of squares of corresponding sides.

Calculation:

(Area of Δ1)/(Area of Δ2) = (side of Δ1)²/(side of Δ2)²

=> $(9/4)^2$

=> 81/16

Therefore ratio of the area of two similar triangles = 81 : 16

Q56. Answer: (b) 7, 8, 10

Calculation:

For the options to represent the sides of the acute-angled triangle, the sum of squares of any two sides should always be greater than the square of the third side

Option 2:

=> $7^2 + 8^2 > 10^2$

=> 82 + 102 > 72

=> $10^2 + 7^2 > 8^2$

Therefore Correct option is 7, 8, 10

Q57. Answer: (a) 1521

Given:

Out of two numbers, 65% of the smaller number is equal to 45% of the larger

number. If the sum of two numbers is 2574

Calculation:

Let the smaller number be 'x' and the larger number be 'y'

From the problem, it is given that

65%x = 45%y

=> 13x = 9y

=> x = (9/13)y ----(1)

Given the sum of the numbers = 2574

=> (x + y) = 2574 ----(2)

Substituting the value of 'x' from Equation 1 in Equation 2, we get

(9/13)y + y = 2574
=> (9y + 13y) = 2574 × 13
=> 22y = (2574 × 13)
=> y = (2574 × 13)/22 = 1521
Therefore Value of the larger number is 1521

Q58. Answer: (d) 3 : 2

Calculation:
(4/7) P = (12/14) Q
=> (P/Q) = (12 × 7)/(14 × 4)
=> 84/56
=> 3/2
Therefore Required Ratio (P: Q) = 3 : 2

Q59. Answer: (c) 3 : 7

Calculation:
Applying Allegation formula,
(Quantity of higher Price/ Quantity of Lesser Price) = (Average Price – Lesser Price)/(Higher Price – Average Price)
=> (13.5 – 12)/(17 – 13.5) = 1.5/3.5 = 15/35 = 3/7
Therefore Required Ratio = 3 : 7

Q60. Answer: (a) 67

Given:
Average age of 5 students of a school = 14 years
Average age of students and their Mathematics and science teachers is 30 years
Age of science teacher = 6 years + age of Mathematics teacher
Formula used:
Average = Sum of observation ÷ no. of observation
Calculation:
Total age of all the 5 students = 5 × 14 = 70 ----(1)
Total age of (Students + Mathematics Teacher + Science Teacher)
=> (5 + 1 + 1) × 30 = 7 × 30 = 210 ----(2)
Age of Science Teacher = 6 + Age of Mathematics Teacher ----(3)
Substituting Equation 1 and Equation 3 in Equation 2, we get
70 + (Mathematics Teacher) + (6 + Age of Mathematics Teacher) = 210
=> 76 + 2(Age of Mathematics Teacher) = 210
=> 2 (Age of Mathematics Teacher) = 210 - 76 = 134
=> (Age of Mathematics Teacher) = 134/2 = 67
Therefore Required Age = 67

Q61. Answer: (d) 7986

Given:
Principal (P) = Rs. 6000,
Amount (A) = Rs. 7200,
Time Period (T) = 2 years
Formula used:
S.I. = P × R × T/100
Amount (A) = Principal [1 + (RT/100)]
In case of compound interest,
Amount = P [1 + (R/100)]T
where, P → Principal
R → Rate of interest
T → Time period

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Calculation:
In case of simple interest, we have
=> 7200 = 6000 [1 + (RT/100)]
=> [1 + (RT/100)] = 7200/6000 = 1.2
=> (RT/100) = 1.2 - 1 = 0.2
=> R = (0.2 × 100)/T = (0.2 × 100)/2 = 10%
In case of C.I.
A = 6000 [1 + (10/100)]³
=> 6000 (1.1)³ = 6000 × 1.331 = Rs. 7986
Therefore Final Amount = Rs. 7986

Q62. Answer: (d) 54.84

Cost Price of 1 kg of Sugar = Rs. X
Selling Price = Cost Price (1 – Loss %) = X (1 – 4%) = X (1 - 0.04) = 0.96x
Cost Price for 620 gms = 0.62X
Selling Price = Cost Price (1 + Profit%)
=> 0.96x = 0.62 (1 + Profit%)
=> 0.96x/0.62 = (1 + Profit%)
=> (1 + Profit%) = 1.5484
=> Profit = 1.5484 - 1 = 0.5484
=> Profit% = 54.84
Therefore Required Percentage = 54.84%

Q63. Answer: (a) 195

Given:
Marked Price = Rs. 600,
Successive Discount = 10% and 25%
Formula used:
Selling Price = Marked Price (1 – x%) (1 – y%)
Where, x% and y% are successive Discounts
Calculation:
Selling Price = Marked Price (1 – 10%) (1 – 25%)
=> 600 × (1 – 0.1) (1 – 0.25)
=> 600 × 0.9 × 0.75
=> Rs. 405
Discount = Rs. (600 – 405) = Rs. 195
Therefore Discount amount offered = Rs. 195
Shortcut TrickEffective discount rate = x + y - xy/100
Effective discount % = 10% + 25% - 10 × 25/100 = 32.5%
Discount = 32.5% of 600 = Rs. 195

Q64. Answer: (b) √5 + 2

Calculation:
(√5 + 2)/(√5 – 2)
Multiplying the numerator and Denominator with the rationalizing factor, (√5 – 2)
=> [(√5 + 2)/(√5 – 2)] × [(√5 + 2)/(√5 + 2)]
=> (√5 + 2)²/(5 – 4) = (√5 + 2)²
Square root of (√5 + 2)²
=> √(√5 + 2)²
=> √5 + 2
Therefore Required value is (√5 + 2)

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Q65. Answer: (b) 25

Given:

Let Q completed the work in x days

P completed the 1/2 of the work = x/3

=> P completed the whole work = 2x/3

Formula used:

Total work = Efficiency × time

Calculation:

According to the question,

1/(2x/3) + 1/(x) = 1/15

=> 3/2x + 1/x = 1/15

=> 5/2x = 1/15

=> x = 5 × 15/2

Therefore P completed the whole work alone = 2x/3 = 2/3 × 5 × 15/2 = 25 days

Q66. Answer: (c) 3

Given:

A girl walking at the speed of 2 km/hr covers a certain distance in 7 hours 30 minutes.

She covers the same distance by cycle in 5 hours.

Formula used:

Distance = Speed × Time

Calculation:

If the distance is constant, then the Speed is indirectly proportional to Time (Product of Speed and Time is constant

S1 × T1= S2 × T2

=> 2 × 7.5 = S2 × 5

=> S2= (2 × 7.5)/5

=> 15/5

=> 3 kmph

Therefore The speed of the cycle is 3 kmph.

Q67. Answer: (a) B

Calculation:

From the graph, it can be seen that the second highest value is for country B which is 800

So, the country with the second highest population is B.

Q68. Answer: (b) 10 : 13

Calculation:

Population of country A = 500

Population of country G = 650

Ratio of population of country A to country G = 500 : 650 = 10 : 13

Therefore Required Ratio = 10 : 13

Q69. Answer: (b) 100%

Calculation:

Population of country E = 1000

Population of country A = 500

Difference in the population of E and A = 1000 - 500 = 500

Population of country E is greater than that of country A by [(Difference of the population)/Population of country A] × 100%

=> [500/500] × 100% = 100%

Therefore Required Percentage = 100%

Shortcut TrickRatio of E : A = 1000 : 500 = 2 : 1

=> E is 1 unit greater than A

=> 1/1 × 100% = 100%

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Q70. Answer: (a) 6000

Calculation:

Population of country D = 50

If $120 is spent per person in country D, then the total amount spent

=> 50 million × 120 = $6000 million

Therefore Required answer = $6000 million

Q71. Answer: (b) 120

Given:

Length of the rectangle = 8 cm,

Length of the diagonal = 17 cm

Formula used:

Area of rectangle = l × b

$(D)^2 = (l)^2 + (b)^2$

where l → length of the rectangle

b → breadth of the rectangle

D → diagonal of the rectangle

Calculation:

=> $(b)^2 = (17)^2 - (8)^2 = 289 - 64 = 225$

Breadth = √225 = 15

Area of the rectangle = 8 × 15 = 120 cm^2

Therefore Area of the Rectangle = 120 cm^2

Q72. Answer: (a) 6

Given:

The measure of the interior angle of a regular polygon = 120

Formula used:

Interior angle of a regular polygon = (n -- 2) 180^o/n

where ‘n’ → number of sides of the regular polygon

Calculation:

=> 120^o = (n - 2) 180^o/n

=> 120^on = 180^on - 360^o

=> 180^on - 120^on = 360^o

=> 60^on = 360^o

=> n = 360^o/60^o = 6

Therefore Number of sides = 6

Q73. Answer: (a) 1039.5

Given:

Diameter of a hemisphere = 21cm

Formula used:

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

where r → radius of hemisphere

Calculation:

r = 21/2 = 10.5 cm

Total surface area = $3 \times (22/7) \times 10.5^2 = 1039.5$

Therefore Required value is 1039.5cm^2

Q74. Answer: (a) (1 – √6)/√2

Calculation:

We know that sin 45° = (1/√2)

Value of (sin 45° – √3) = (1/√2) – √3 = (1 – √6)/√2

Therefore Required answer is (1 – √6)/√2

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Q75. Answer: (c) 30

Calculation:

We know that cotD = Adjacent/Opposite = DE/EF = 8/15

Let the sides DE and EF be 8x and 15x respectively

Given DE = 8x = 16

=> x = 16/8 = 2 cm

Length of EF = 15x = (15 × 2) = 30 cm

Therefore EF = 30 cm

Q76. Answer: (a) General skills

• Skill may be defined as proficiency, a facility that is acquired or developed through training and experience.

• Basic skills or competencies which psychologists have identified for becoming an effective psychologist- i) General skills ii) Observational skills iii) Specific skills

• General skills are transferred to other employers.

• Specific skillsare skills that require very special professional functioning.

Q77. Answer: (d) Thermal power

• Thermal power is the biggest consumer of water in India.

• Engineering is the second biggest consumer of water in India.

• Paper and pulp industry comes on third rank and textiles comes on fourth rank for consuming water

Q78. Answer: (d) Equatorial

The correct answer is option 4, i.e. Equatorial.

• The equatorial region receives rainfall throughout the year. It includes a country like Sri Lanka, Malaysia.

• It receives rainfall every day.

• In the Mediterranean region, rainfall is moderate and during winter months.

• In the tundra region, the regions are covered with snow for nine months in a year, and the precipitation is low.

• Monsoon receives abundant rainfall but it does not receive rainfall throughout the year.

Q79. Answer: (b) Andhra Pradesh

The correct answer is Andhra Pradesh.

Key Points

• Kolleru Lake

• Kolleru lake is one of the largest freshwater lakes in India.

• It is located in Andhra Pradesh between Krishna and Godavari rivers.

• It is a major attraction to many migratory bird species like Siberian crane, ibis, painted storks, grey pelican, etc.

• It is a safe breeding house for these migratory birds.

• Kolleru lake wetland has been recognized with the status of one among multiple 'Wetlands of International importance' by the Ramsar convention in 2002.

• Kolleru Bird Sanctuary which was established in 1999 protects the wetland area.

• The Atapaka Bird Sanctuary is also located at Kolleru.

Additional Information

• Andhra Pradesh

• The state of Andhra Pradesh was formed in 1953.

• The capital of Andhra Pradesh is Amaravati.

• The Chief Minister of Andhra Pradesh is Y. S. Jaganmohan Reddy.

• The official language of Andhra Pradesh is Telugu.

Q80. Answer: (b) Aurangzeb

• Aurangzeb re-imposed Jizya in 1679.

• Jizya is type of tax imposed on the non-muslims.

• Alauddin khilji was the first person who imposed this tax in india on non-muslims.

• It was abolished in the reign of Akbar.

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Q81. Answer: (b) 1856 AD

• In 1856, the East India Company passed a new law in which sea travel has been made mandatory for Indian soldiers.

• In those time, many people in the country believed that if they crossed the sea they would lose their religion and caste.

Q82. Answer: (b) Non-violence

The correct answer is Non-violence.

Key Points

• Jainism

• Jainism, traditionally known as Jain Dharma, is an ancient Indian religion.

• It is one of the oldest Indian religions.

• The three main pillars of Jainism are ahimsā (non-violence), anekāntavāda (non-absolutism), and aparigraha (non-attachment).

Additional Information

Some most important fundamental principle of Jainism are:

• Five principles of Jainism are

• Non-Violence (Ahimsa)

• No lies (Satya)

• No stealing (Asteya)

• No Property (Aparigraha)

• Observing Continence (Brahmacharya).

• The fifth principle (Brahmacharya) was added by Mahavira and the other four were the teachings of his Predecessors.

• Mahavira was the 24th Tirthankara of Jain.

Q83. Answer: (b) Afghanistan

• India will provide financial assistance of $ 2.87 million for the public transport system to Afghanistan.

• The assistance will be used to repair around 350 public buses in the country.

Q84. Answer: (c) Emma Stone

• Emma Stone at the age of 28, is world's highest paid actresses according to Forbes 2017 list.

• Jennifer Aniston is second in the list.

• Jennifer Lawrence is at third position.

Q85. Answer: (a) Coffee

• Coffeewas first cultivated in Sri Lanka under plantation agriculture.

• But it was not successful by the Dutch in 1740.

• By 1860, the country was amongst the major coffee-producing nations in the world when British began large scale commercial production.

Q86. Answer: (b) P

• Al (Alumunium) - Metal

• P (Phosphorous) - Non-metal

• Ca (Calcium) - Metal

• K (Potassium) - Metal

Concept:

Metals:

• The elements readily form positive ions (cations) are called metals.

• Metals are usually solid, a good conductor of heat and electricity, malleable, ductile, sonorous, and have good tensile strength.

• Sodium, Potassium, Magnesium, Iron, Copper, Silver, etc are a few examples of metals.

• Metals react with oxygen to form their respective metal oxides, this reaction goes in the manner given by the general equation.

Metal + oxygen → Metal oxides

• To test the acidity and basicity of these metal oxides, they are made with water and then react with water, and then tested with litmus paper.

• A basic solution turns litmus to blue whereas an acidic solution turns blue litmus to red.

• Metals produce basic oxides when dissolved in water.

Non-Metal:

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• The physical properties of non-metals are the opposite of metals. For example, They are insulators, have lower tensile strength, dull appearance.
• They form negative ions by accepting or gaining electrons.
• Generally, the Oxides of non-metals are acidic in nature.

Explanation:

• P is for phosphorous which is non-metal. Other Al - Aluminium, Ca - Calcium, and K - Potassium is some metals.
• Phosphorous is p block element they are generally non-metal, metalloid, and some metals.
• Ca, K is s block element and they are generally metal.
• Al is p block element but metallic in nature.

Q87. Answer: (b) Positron

• Electron contains one negative charge
• Positron and proton contain one positive charge that is the same charge.
• Neutron contains no charge; they are neutral.
• Alpha contains charge of two protons.

Confusion Points

Electron takes same but opposite charge as of proton.

Q88. Answer: (c) The President of India

• According to article 74, oath of secrecy to union ministers is administered by the President of India.

The President	**Oath administered by Chief Justice of India or in his absence the senior-most Judge of Supreme Court.**
Vice-President	Oath administered by President
Comptroller and Auditor General	President

Q89. Answer: (b) Six months

• After Six months, laws made by Parliament on the state subjects during a National Emergency become inoperative and cease to operate.
• This is according to Part XVIII of the constitution from article 352 to 360.

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

Striated	**have sarcomeres and are multinucleated.**	**Long, cylindrical & unbranched**
Smooth	nonstriated, involuntary, one nucleus per cell.	Long with pointed ends
Cardiac	have sarcomeres are multinucleated.	Cylindrical & branched

Q91. Answer: (d) No option is correct.

The correct answer is No option is correct.

Key Points

• The plant kingdom is divided into 2-sub kingdoms, Cryptogams and Phanerogams.
• Cryptogams are flowerless and seedless plants that produce spores. They include thallophytes, bryophytes, and pteridophytes. Examples: fern, liverworts, etc
• Phanerogams are seed-bearing plants that include angiosperms and gymnosperms. Examples: pine, petunia, etc.

Additional Information

• Thallophyte
• They are commonly called algae.
• The plant body is not differentiated from roots, stems, and leaves.
• Examples: spirogyra, Ulothrix, etc.
• Bryophytes:
• They are often referred to as amphibians of the plant kingdom.
• These are small terrestrial plants.

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• They show differentiation in the body design, with stem, leaf-like structures, and root-like structures.
• Examples: Funaria, Marchantia, etc.
• Pteridophyta:
• These plants are having specialized tissue for conduction.
• The plant body is differentiated into roots, stems, and leaves.
• Examples: Fern, Marsilea, etc.

Q92. Answer: (d) 500

• Swachh Survekshan2018 conducted in January-February 2017 ranking 434 cities.
• Minister of Housing and Urban Affairs (formerly Ministry of Urban Development) had conducted Swachh Survekshan.
• The objective of the survey is to encourage large scale citizen participation.

Q93. Answer: (a) Heart

• Scientists introduced fully functional artificial muscle to recover damages of Heart in November 2017.
• It is specially made for patients who have suffered from heart attacks.
• No fully artificial lungs and fully artificial kidney hasbeen introduced.
• The first bioartificial liver device has been introduced in 2001.

Q94. Answer: (c) HDFC Bank

• HDFC Bank launched an artificial intelligence – driven chatbot named 'EVA (Electronic Virtual Assistant)' on 5march 2017.
• Eva is India's first AI-based banking chatbot and can answer millions of customer queries across multiple channels instantly.

Q95. Answer: (d) Marathwada

• Ministry of Railway announced to set up a massive rail coach factory in Marathwadaregion of Maharashtra on 31 January 2018.
• The decision was taken at a high-level meeting with Mr Goyal (Railway minister at that time) and Mr Fadnavis (CM of Maharashtra).
• The new coach plant will create an industrial ecosystem in the drought-prone region.

Q96. Answer: (a) 0.01

The correct answer is 0.01.

Key Points

Given that,

Wavelength = 5m

Speed = 500m/s

We know, time = distance/speed = Wavelength/speed

Time = 5/500 = 0.01seconds

Q97. Answer: (a) Kinetic energy

• In a free fall, the total energy (T.E.) is constant that is T.E = kinetic energy + potential energy.
• Since the total energy is constant so that increase in kinetic energy brings down the potential energy value and vice versa.

Q98. Answer: (c) potable

The correct answer is potable.

Key Points

• Potable water is known as Drinking Water.
• Potable water is also known as drinking water and comes from surface water and groundwater sources..
• Potable water is defined as water that is suitable for human consumption (i.e., water that can be used for drinking or cooking).
• Drinkable water means it is free of unpleasant odors, tastes and colors, and is within reasonable limits of temperature.

Additional Information

• Packaged Water
• Packaged drinking water is water from any source, which has been treated and disinfected, a process that could involve filtration, UV or ozone treatment or reverse osmosis (RO) and then packaged in bottles or pouches, either plastic or glass, for our consumption.
• Mineral Water
• Mineral water are watet that naturally or artificially infused with mineral salts or gases (such as carbon dioxide).

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• Mineral water is also known as spring water because it comes from natural springs, which are places where moving underground water comes out of an opening in the land's surface.

• Mineral water can also be made artificially by adding salts to distilled water or aerating it with carbon dioxide to create more carbonation.

• However, mineral water is naturally carbonated to varying degrees.

Q99. Answer: (a) Only C

• In 2017 Pro Kabaddi League, Manjeet Chillar played for Jaipur Pink Panthers team.

• United Arab hosted the Badminton 2017 BWF Super Series Finals.

• India hosted theBadminton 2017 BWF World Senior Championships.

Q100. Answer: (a) HTML

• Web applications are designed to interpret HTML to display text, images

• Web applications area program that is accessed over a network connection using HTTP, rather than existing within a device's memory.

• A web application is a computer program that utilizesweb browsers

• Moreover, it also usesweb technology to perform tasks over the Internet.

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