SSC CHSL Previous Paper 1 (Held On: 1 Jul 2019 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2019 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Directions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

During organised tours in Germany, tourists can (1) ____ a former Nazi compound 40 kilometres from Berlin (2) __ the 'Forbidden City'. Around twenty thousand people visit this place (3) __ year to learn about Nazi military history. The Nazis (4) __ militarily active at the compound, which was kept (5) ____ in a forest and behind a fence. They hid underground bunkers in country homes, and they planned much of World War II here.

Q1. Select the most appropriate option for blank No. 1.

- **(a)** travel
- **(b)** visit
- **(c)** trip
- **(d)** stay

Q2. Select the most appropriate option for blank No. 2.

- **(a)** calls
- **(b)** call
- **(c)** calling
- **(d)** called

Q3. Select the most appropriate option for blank No. 3.

- **(a)** every
- **(b)** all
- **(c)** whole
- **(d)** one

Q4. Select the most appropriate option for blank No. 4.

- **(a)** have been
- **(b)** has been
- **(c)** were
- **(d)** was

Q5. Select the most appropriate option for blank No. 5.

- **(a)** sacred
- **(b)** mysterious
- **(c)** concealed
- **(d)** holy

Q6. In the following question, a sentence is given in Direct/Indirect speech. Out of the four alternatives choose the one which best expresses the sentence in Indirect/Direct Speech.

Mr. Puri said to me, "Why are you taking down this fence?"

(a) Mr. Puri asked me why was I taking down this fence.
(b) Mr. Puri asked me why I was taking down that fence.
(c) Mr. Puri said to me that why are you taking down this fence.
(d) Mr. Puri said to me why you were taking down that fence.

Q7. Select the wrongly spelt word.

(a) Celebrate
(b) Celebrant
(c) Celebrity
(d) Celeberation

Q8. Select the most appropriate synonym of the given word.

ADVERSARY

(a) helper
(b) rival
(c) assistant
(d) supporter

Q9. Select the most appropriate word to fill in the blank.

I had a stroke at an early age, but what I thought was a great _____ at that time changed my life for the better.

(a) incentive
(b) indication
(c) indent
(d) injustice

Q10. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

Nowadays rent for a two-room house can run as high to Rs. 40,000/ in Mumbai.

(a) so high so
(b) so high to
(c) No improvement
(d) as high as

Q11. Select the most appropriate meaning of the given idiom.

Dance to someone's tune

(a) do what others want you to do
(b) argue with others on petty matters
(c) delay in making a decision
(d) be engaged in an energetic activity

Q12. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

Lot of peoples visit this restaurant as its biryani is famous.

(a) No improvement
(b) Much of people
(c) A lot of people
(d) A lot peoples

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Q13. Select the most appropriate antonym of the given word.

MINISCULE

(a) dwarf
(b) gigantic
(c) small
(d) meagre

Q14. Select the word which means the same as the group of words given.

Something that cannot be avoided

(a) indelible
(b) inevitable
(c) invincible
(d) infallible

Q15. In the sentence identify the segment which contains the grammatical error.

Three more elevated roads have been propose in the new plan to unclog the traffic in Delhi.

(a) Three more elevated roads
(b) to unclog the traffic in Delhi
(c) have been propose
(d) in the new plan

Q16. Select the most appropriate word to fill in the blank.

We have little choice early in life, but as we grow older choices _____.

(a) abound
(b) aggravate
(c) afloat
(d) adrift

Q17. Select the most appropriate meaning of the given idiom.

leave no stone unturned

(a) turn everything upside down
(b) not make enough efforts
(c) leave the path halfway
(d) try everything possible

Q18. Select the correct passive form of the given sentence.

The prisoners have made these paintings.

(a) These paintings were made by the prisoners.
(b) These paintings have been made by the prisoners.
(c) These prisoners have been made by the paintings.
(d) These paintings are made by the prisoners.

Q19. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. As he looked at them, their heads began to hang low.
B. Akbar glanced at his courtiers in search of an answer.
C. Once Akbar asked his courtiers a very strange question.
D. The courtiers were dumb-founded by his question.

(a) ACBD
(b) CADB
(c) CDBA
(d) DCAB

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Q20. Select the most appropriate antonym of the given word.

PERPETRATE

(a) prevent
(b) perform
(c) execute
(d) commit

Q21. Select the most appropriate SYNONYM of the given word.

EXPOSE

(a) Protect
(b) Reveal
(c) Bury
(d) Hide

Q22. Select the correctly spelt word.

(a) Earli
(b) earne
(c) Eeria
(d) Eagle

Q23. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Later, they set up their own art school and gallery in the prison.
B. The prisoners wanted to display their artwork inside the prison.
C. They took the help of volunteers from the School of Art.
D. The prisoners who were interested in visual arts and painting could study there.

(a) DCAB
(b) BDAC
(c) CBAD
(d) BCDA

Q24. Select the word which means the same as the group of words given.

A person belonging to a foreign country

(a) resident
(b) alien
(c) native
(d) inhabitant

Q25. In the sentence identify the segment which contains the grammatical error.

Tilak rowed through the river and tied his boat on the other side.

(a) through the river
(b) on the other side
(c) and tied his boat
(d) Tilak rowed

GENERAL INTELLIGENCE

Q26. 'Chickenpox' is related to 'Virus' in the same way as 'Ringworm' is related to '_____'.

(a) Protozoan
(b) Nematodes
(c) Bacterium
(d) Fungus

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Q27. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

7 : 85

(a) 8 : 113
(b) 3 : 31
(c) 5 : 43
(d) 2 : 9

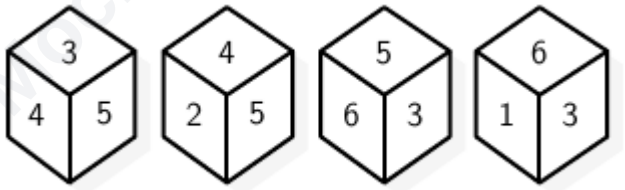
Q28. If V = 44 and FAT = 54, then how will you code LATE?

(a) 110
(b) 19
(c) 54
(d) 76

Q29. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

(a) HSKPM
(b) JQMNP
(c) DWGTJ
(d) PKSHV

Q30. Four different positions of the same dice are shown. Find the number on the face opposite to the one having 3.



(a) 1
(b) 4
(c) 2
(d) 6

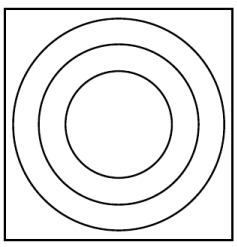
Q31. In a code language, BLEND is written as ENHPG. How will WINNER be written in the same language?

(a) YKQPHT
(b) ZKQPHU
(c) ZKQPHT
(d) ZKOPHT

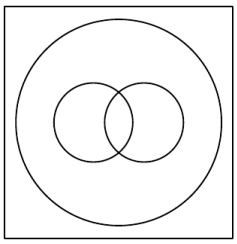
Q32. Select the Venn diagram that best illustrates the relationship between the following.

Lethargy, Anxiety, Power

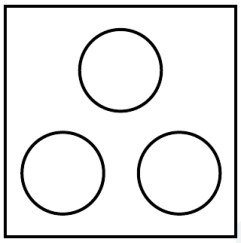
(a)



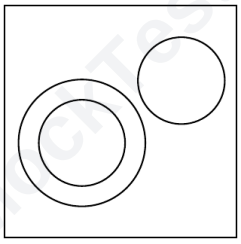
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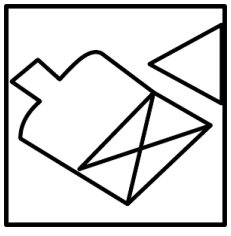
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Q33. Select the option in which the given figure is embedded.

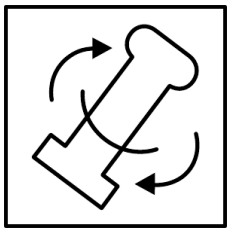


(a)

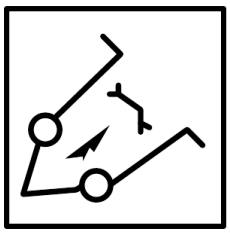


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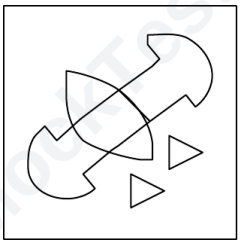
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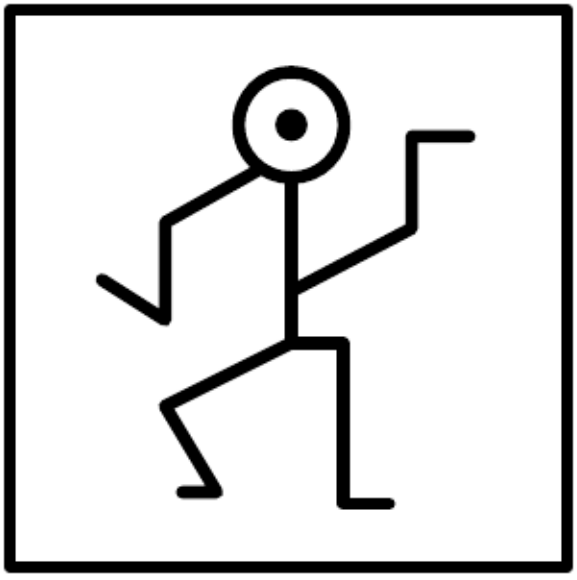
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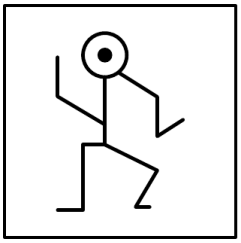
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Q34. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

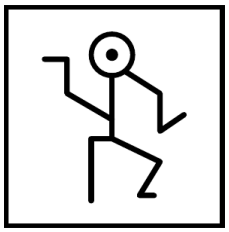


(a)

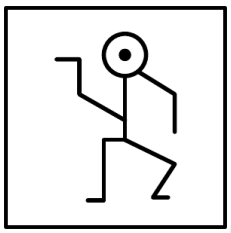


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(b)



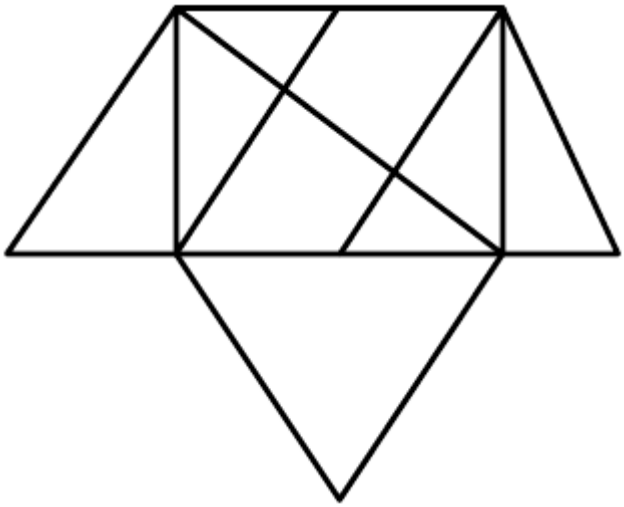
(c)



(d)



Q35. How many triangles are present in the following figure?



(a) 14
(b) 13
(c) 15
(d) 16

Q36. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Butterflies : Lepidopterist

(a) Maps : Photographer
(b) Chromosomes : Botanist
(c) Jewels : Jeweler
(d) Postcards : Deltiologist

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Q37. In a family, B is the father of K. B has only two children. K is the brother of R. R is the daughter of P. A is the grand-daughter of P. S is the father of A. How is S related to K?

(a) Son-in-law
(b) Son
(c) Brother-in-law
(d) Brother

Q38. Which two signs should be interchanged in the following equation to make it correct?

132 × 11 + 8 – 3 ÷ 12 = -16

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

Q39. Which number will replace the question mark (?) in the following series.

5, 8, 20, 34, 76, 142, ?

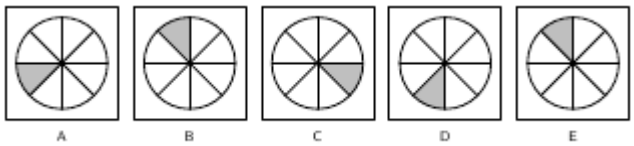
(a) 296
(b) 284
(c) 272
(d) 302

Q40. Arrange the following words in a logical and meaningful order.

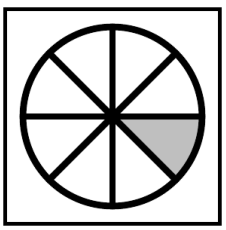
1. Monkey
2. Elephant
3. Rat
4. Fly
5. Lion

(a) 3, 4, 1, 2, 5
(b) 4, 1, 3, 2, 5
(c) 3, 4, 1, 5, 2
(d) 4, 3, 1, 5, 2

Q41. Select the figure that will come next in the following figure series.

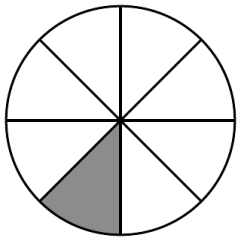


(a)

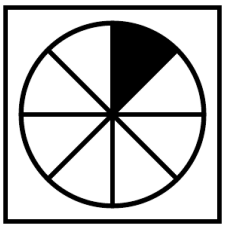


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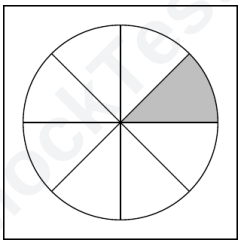
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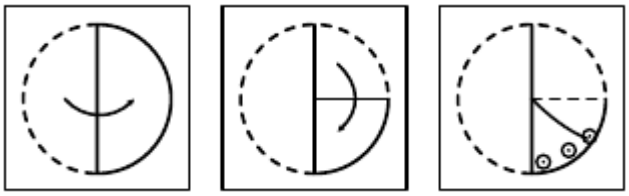
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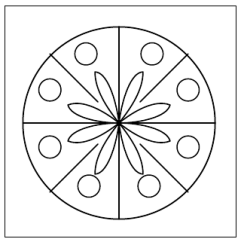
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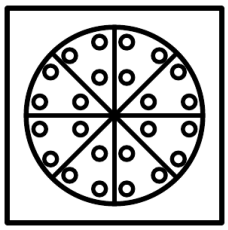
Q42. A paper is folded and cut as shown in the following figures. How will it appear when unfolded?



(a)

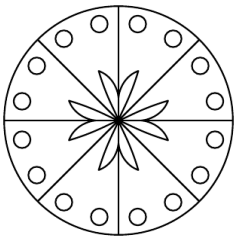


(b)

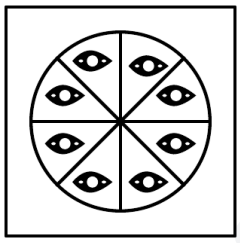


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(c)



(d)



Q43. Three of the following four words are alike in a certain way and one is different. Pick the odd one out.

(a) Bray
(b) Hoot
(c) Amble
(d) Roar

Q44. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All rocks are oceans.

All oceans are balloons.

Some watches are balloons.

Conclusions:

I. Some balloons are rocks.

II. Some watches are oceans.

III. All oceans are rocks.

(a) Only conclusions I and II follow.
(b) Only conclusions I and III follow.
(c) Only conclusion I follows.
(d) Only conclusion II follows.

Q45. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

(a) 5138
(b) 7158
(c) 9178
(d) 3128

Q46. A plastic toy costs Rs. 7 and a plastic spoon costs Rs. 5. A person X spends Rs. 38 on these plastic items. Find the number of plastic toys he/she purchased.

(a) 4
(b) 3
(c) 2
(d) 5

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Q47. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(4, 152, 6)

(a) (5, 287, 8)
(b) (2, 208, 6)
(c) (3, 55, 4)
(d) (4, 179, 7)

Q48. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(4, 14, 44)

(a) (11, 35, 107)
(b) (7, 23, 69)
(c) (9, 30, 57)
(d) (5, 15, 30)

Q49. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

GATE : HXYX ? SINK : _____

(a) TESD
(b) TFSD
(c) TGSE
(d) TETD

Q50. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

abc_dab_ _d_b_cdab_c_

(a) acacdcc
(b) cacacdc
(c) ccaacdc
(d) cccaccd

QUANTITATIVE APTITUDE

Q51. A sum of Rs. 4,360 was to be divided among A, B, C and D in the ratio of 3 : 4 : 5 : 8, but it was divided in the ratio of 13 : 14 : 5 : 8 by mistake, As a result:

(a) B received Rs. 318 more
(b) A received Rs. 956 more
(c) D received Rs. 872 less
(d) C received Rs. 132 less

Q52. The marked price of an article is Rs. 600. After allowing a discount of 25% on the marked price, there was a loss of Rs. 30. The loss percentage is:

(a) 6.25%
(b) 7.50%
(c) 6.50%
(d) 7.25%

Q53. The value of $(\tan 13° \tan 37° \tan 45° \tan 53° \tan 77°)/[2 \operatorname{cosec}^2 60(\cos^2 60° - 3\cos 60° + 2)]$ is:

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

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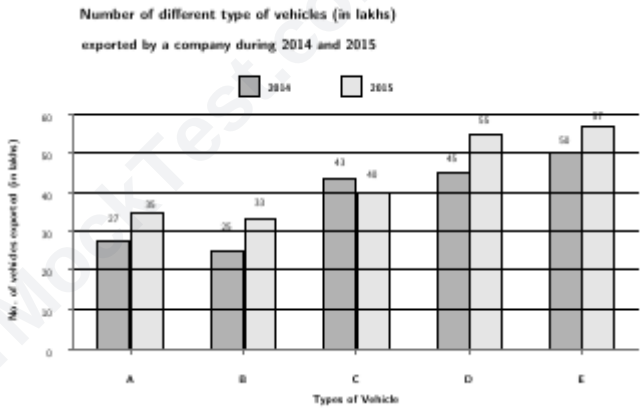
Q54. If $8x^2 + y^2 – 12x – 4xy + 9 = 0$, then the value of $(14x – 5y)$ is:

(a) 3
(b) 9
(c) 6
(d) 5

Q55. The area of a field in the shape of a regular hexagon is $2400\sqrt{3}$ m². What will be the cost of fencing it at Rs. 18.50 per meter?

(a) Rs. 5180
(b) Rs. 5550
(c) Rs. 4440
(d) Rs. 5920

Q56. The given Bar Graph presents the number of different types of vehicles (in lakhs) exported by a company during 2014 and 2015.



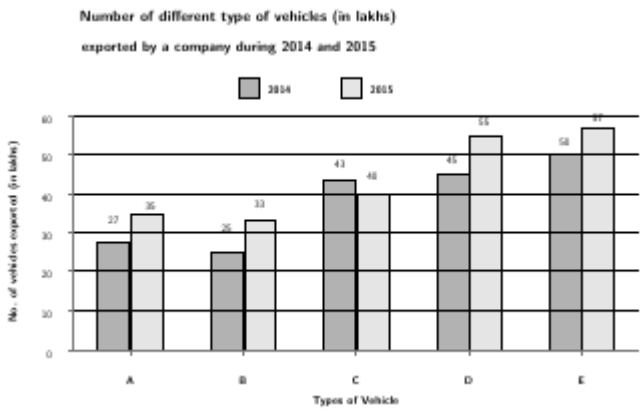
The average number of type A, B and D vehicles exported in 2015 was x% less than the number of type E vehicles exported in 2014. What is the value of x?

(a) 25
(b) 20
(c) 18
(d) 24

Q57. If $x + y + z = 19$, $xyz = 216$ and $xy + yz + zx = 114$, then the value of $\sqrt{(x^3 + y^3 + z^3 + xyz)}$ is:

(a) 28
(b) 35
(c) 30
(d) 32

Q58. The given Bar Graph presents the number of different types of vehicles (in lakhs) exported by a company during 2014 and 2015.



Which type of vehicle showed 32% increase in export in 2015 as compared to that in the previous year?

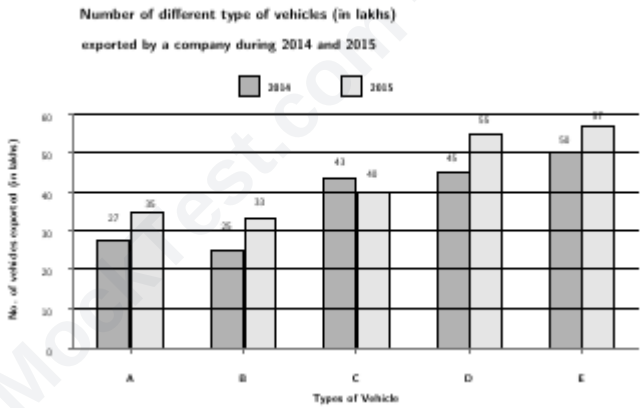
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(a) E
(b) D
(c) A
(d) B

Q59. If $2\cos^2\theta - 5\cos\theta + 2 = 0$, $0° < \theta < 90°$, then the value of $(\text{cosec}\,\theta + \cot\theta)$ is:

(a) 17
(b) 23
(c) 13
(d) √3

Q60. The given Bar Graph presents the number of different types of vehicles (in lakhs) exported by a company during 2014 and 2015.



The total number of type B, D and E vehicles exported in 2014 is what percentage of the total number of type A, C, D and E vehicles exported in 2015 (correct to one decimal place)?

(a) 63.8%
(b) 64.2%
(c) 61.6%
(d) 62.4%

Q61. The value of 3/4 ÷ 3/4 of 3/4 × 4/3 + 5/2 ÷ 2/5 of 5/4 – (2/3 + 2/3 of 5/6) is:

(a) 14/3
(b) 22/3
(c) 50/9
(d) 41/9

Q62. In a circle with centre O, AD is a diameter and AC is a chord. B is a point on AC, such that OB = 5 cm and angle OBA = 60°. If angle DOC = 60°, then what is the length of BC?

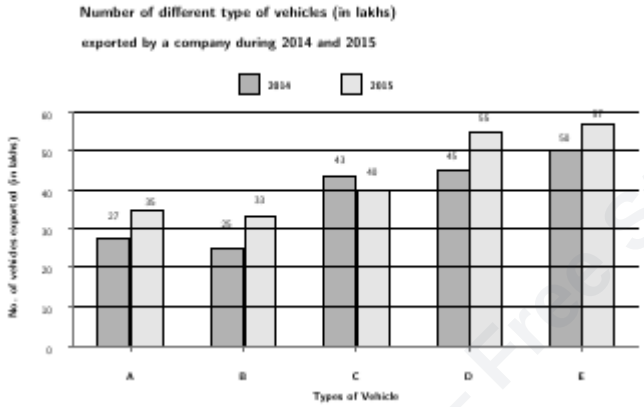
(a) 4 cm
(b) 5 cm
(c) 5√3 cm
(d) 3√5 cm

Q63. $\text{Cot}\,\theta / [(1 - \sin\theta)(\sec\theta + \tan\theta)]$ is equal to:

(a) sin θ
(b) cosec θ
(c) 1
(d) sec θ

Q64. The given Bar Graph presents the number of different types of vehicles (in lakhs) exported by a company during 2014 and 2015.

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What is the ratio of the total number of type A and C vehicles exported in 2014 to the total number of type B and E vehicles exported in 2015?

(a) 5 : 7
(b) 2 : 3
(c) 8 : 11
(d) 7 : 9

Q65. In ΔABC, D is a point on side AB such that BD = 2 cm and DA = 3 cm. E is a point on BC such that DE || AC, and AC = 4 cm. Then (Area of ΔBDE) : (Area of trapezium ACED) is:

(a) 1 : 5
(b) 4 : 21
(c) 4 : 25
(d) 2 : 5

Q66. What is the difference between the compound interest, when interest is compounded 5-monthly, and the simple interest on a sum of Rs. 12,000 for 1(1)/4 years at 12% per annum?

(a) Rs. 90
(b) Rs. 93
(c) Rs. 92.50
(d) Rs. 91.50

Q67. If the nine-digit number 43x1145y2 is divisible by 88, then the value of (3x – 2y), for the smallest value of y, is:

(a) 22
(b) 20
(c) 9
(d) 18

Q68. Tangents AB and AC are drawn to a circle from a point A, such that angle BAC = 40°. A chord CP is drawn parallel to BA. The measure of angle CBP is:

(a) 40°
(b) 35°
(c) 55°
(d) 45°

Q69. There are three numbers. If the average of any two of them is added to the third number, the sums obtained are 177, 163 and 138. What is the average of the largest and the smallest of the given numbers?

(a) 67
(b) 79
(c) 76
(d) 81

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Q70. The sides AB and AC of ΔABC are produced to points D and E, respectively. The bisectors of angle CBD and angle BCE meet at P. If angle A = 72°, then the measure of angle P is:

(a) 60°
(b) 54°
(c) 36°
(d) 45°

Q71. A man spends 72% of his income. If his income increases by 28% and his expenditure increases by 25%, then what is the percentage increase or decrease in his savings (correct to one decimal place)?

(a) 35.7% increase
(b) 26.9% decrease
(c) 38.4% increase
(d) 26.3% decrease

Q72. A and B can complete a task in 25 days. B alone can complete 331/3% of the same task in 15 days. In how many days can A alone complete 4/15^(th) of the same task?

(a) 10
(b) 18
(c) 15
(d) 12

Q73. By selling 72 articles, a loss equal to the selling price of 8 articles was incurred. What is the loss percentage?

(a) 12%
(b) 10%
(c) 9%
(d) 11%

Q74. A man travels a certain distance at 12 km/h and returns to the starting point at 9 km/h. The total time taken by him for the entire journey is 21/3 hours. The total distance (in km) covered by him is:

(a) 12
(b) 24
(c) 25
(d) 28

Q75. If $x + y = 7$ and $xy = 10$, then the value of $(1/x^3 + 1/y^3)$ is:

(a) 0.453
(b) 0.133
(c) 0.543
(d) 0.131

GENERAL AWARENESS

Q76. AIX is the operating system of which company?

(a) Microsoft
(b) Apple
(c) IBM
(d) Unisys

Q77. Which of the following art forms of Kerala is in UNESCO's list of the Intangible Cultural Heritage of Humanity?

(a) Theyyam
(b) Chakyar Koothu
(c) Kutiyattam
(d) Thiruvathirakali

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Q78. Chhattisgarh does NOT share its boundary with _____.

(a) Madhya Pradesh
(b) West Bengal
(c) Uttar Pradesh
(d) Telangana

Q79. Who among the following was India's defence minister during the 1971 war between India and Pakistan?

(a) Yashwantrao Chavan
(b) Jagjivan Ram
(c) Indira Gandhi
(d) Swaran Singh

Q80. Veteran journalist and TV anchor Karan Thapar is the author of which of the following books?

(a) Rebel Sultans
(b) Devil's Advocate: The Untold Story
(c) Why I Am a Hindu
(d) Happyness

Q81. Scissor Cup is associated with which sports?

(a) Football
(b) Cricket
(c) Badminton
(d) Hockey

Q82. Who was the founder of the first search engine called 'Archie'?

(a) David Filo
(b) Matthew Gray
(c) Alan Emtage
(d) Martijn Koster

Q83. In May 2019, Prem Singh Tamang was sworn in as the Chief Minister of:

(a) Arunachal Pradesh
(b) Odisha
(c) Assam
(d) Sikkim

Q84. What is the height of the Statue of Unity that is located in Gujarat?

(a) 93 m
(b) 120 m
(c) 153 m
(d) 182 m

Q85. The Sunauli border is a famous transit point between India and _____.

(a) Nepal
(b) Pakistan
(c) Myanmar
(d) Bhutan

Q86. The Book 'Gulamgiri' was written by:

(a) Ramabai Shinde
(b) Jyotirao Phule
(c) Haridas Thakur
(d) Narayana Guru

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Q87. Who was appointed as the 24^(th) Chief of Naval Staff in May 2019?

(a) Bimal Verma
(b) Karambir Singh
(c) Surinder Pal Singh
(d) Sunil Lanba

Q88. With which of the following sports is Karun Chandhok associated?

(a) Table Tennis
(b) Badminton
(c) Lawn Tennis
(d) Car Racing

Q89. Which state has proposed to set up the first 'Blockchain District' in India?

(a) Tamil Nadu
(b) Telangana
(c) Maharashtra
(d) Gujarat

Q90. Ottamthullal is a traditional dance form that is popular in the state of _____.

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

Q91. The enzyme, Lipase is produced by which organ of the body?

(a) Lung
(b) Pancreas
(c) Salivary gland
(d) Liver

Q92. Who among the following is the author of “Principles of Political Economy”?

(a) Joseph Schumpeter
(b) John Stuart Mill
(c) Milton Friedman
(d) David Ricardo

Q93. Which is the coldest place in India?

(a) Amarnath
(b) Srinagar
(c) Leh
(d) Dras

Q94. The Walayar Dam is in which district of Kerala?

(a) Idukki
(b) Kasaragod
(c) Palakkad
(d) Thrissur

Q95. In May 2019, Suresh Kumar was appointed as the Chief Technology Officer of:

(a) Walmart
(b) Google
(c) Apple
(d) Amazon

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Q96. Who among the following coined the term "battery" to describe linked capacitors?

(a) John Frederic Daniell
(b) Lewis Urry
(c) Benjamin Franklin
(d) Luigi Galvani

Q97. _____ is the branch of Biology which is concerned with the study of structure of organism and their parts.

(a) Ecology
(b) Mycology
(c) Chronobiology
(d) Anatomy

Q98. When was the first match of ICC Cricket World Cup 2019 played?

(a) 2 June 2019
(b) 1 June 2019
(c) 30 May 2019
(d) 31 May 2019

Q99. In which of the following locations was the Global Venture Capital Summit 2018 held?

(a) Goa
(b) Pune
(c) Mumbai
(d) Ahmedabad

Q100. In the context of banking sector of India, what is the full form of IMPS?

(a) Instant Payment Sector
(b) Immediate Payment Service
(c) Immediate Payment Sector
(d) Instant Payment Service

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) visit

The correct answer is option 2) i.e. visit.

• In the given sentence visit is the most appropriate word which means to go to someone or someplace for a specific purpose.
• In the given sentence purpose is mentioned i.e. a former Nazi compound.
• Hence, 'visit' is the correct answer.

Additional Information

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• Travel: go from one place to another, typically over a distance of some length
• Example: The birds are traveling south for the winter.
• Trip: a journey or excursion, especially for pleasure
• Example: We're going on a trip to Norway this summer.
• Stay: a period of staying somewhere, in particular of living somewhere temporarily as a visitor or guest
• Example: They need an assistant who is willing to stay for six months.

Q2. Answer: (d) called

The correct answer is option 4) i.e. called.
• The Passive form of 'call' i.e. called will be used here because 'called' to define something.
• E.g. Lucknow is called the city of Nawabs.

Q3. Answer: (a) every

The correct answer is option 1) i.e. every.
• 'Every' is used before an amount to indicate how often something happens.
• In the given sentence, it is being said that around 20000 people visit this place in a year. So, 'every' is the most appropriate option to fill in the blank.

Q4. Answer: (c) were

The correct answer is option 3) i.e. were.
• The given sentence is in past tense, hence, first 2 options cannot be the answer.
• The subject, here, is plural i.e. Nazis, so, was also cannot be used.
• Thus, 'were' is the most appropriate option to fill in the blank.

Q5. Answer: (c) concealed

The correct answer is option 3) i.e. concealed.
• concealed means to hide and it fits in the context of the given sentence. Hence, it will be the correct answer.
• Mysterious: difficult or impossible to understand, explain, or identify.
• Sacred: regarded with great respect and reverence by a particular religion, group, or individual.
• Holy: dedicated or consecrated to God or a religious purpose

Q6. Answer: (b) Mr. Puri asked me why I was taking down that fence.

The correct answer is option 2) i.e. Mr. Puri asked me why I was taking down that fence.
While changing direct speech into indirect speech, interrogative sentences should be changed to assertive sentences.
• Option 1) cannot be the correct answer because a helping verb has been used before the subject.
• In option 3) why and that are used simultaneously which is wrong.
• In option 4) said to is not changed into asked, so, it cannot be the correct answer.

Q7. Answer: (d) Celeberation

The correct answer is option 4) i.e. celeberation.
• The correct spelling will be 'celebration'.
• All other words are correctly spelt.
• celebrate: acknowledge a significant or happy day or event with a social gathering or enjoyable activity.
• celebrant: a person who celebrates something.
• celebrity: a famous person, especially in entertainment or sport.

Q8. Answer: (b) rival

The correct answer is option 2) i.e. rival.
• Adversary: one's opponent in a contest, conflict, or dispute.
• Rival: a person or thing competing with another for the same objective or for superiority in the same field of activity.
• Assistant: a person who helps in a particular work.
• Supporter: a person who approves of and encourages a public figure, political party, policy, etc.

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Q9. Answer: (d) injustice

The correct answer is option 4) i.e. injustice.

• Injustice means an unjust act. In the given sentence it is implied that the writer thought that it was wrong what happened to him but in fact, it was for his betterment.

• Hence, the correct answer is injustice.

• Incentive: a thing that motivates or encourages someone to do something.

• Indication: a sign or piece of information that indicates something.

• Indent: an official order or requisition for goods.

Q10. Answer: (d) as high as

The correct answer is option 4) i.e. as high as.

• As----as is used to compare two things.

• Since we are comparing the price of a house ' as high as ' will be used here.

• Note: there are no phrases as 'so high so, as high to, and so high to'.

Q11. Answer: (a) do what others want you to do

The correct answer is Option 1.

Dance to someone's tune means to comply completely with someone's demands. Therefore Option 1 best fits the meaning and all other options are irrelevant to the meaning of the given phrase.

Q12. Answer: (c) A lot of people

• Option 2 - 'Much of people' is wrong because 'much' is used for the nouns that are uncountable to specify quantity whereas in our case - we are referring to 'people'- Countable noun for which 'many' could have been the right usage.

• e.g: Much of the sugar was wasted.

• e.g: Many people visit this restaurant as its biryani is famous.

• Option 3- 'A lot of peoples' doesn't make any sense as

• the noun 'people' does not take a plural from by adding 's'.

• People itself is a collective noun consisting of individuals that form the people.

• Therefore, the most appropriate option is 'A lot of people'.

Correct sentence: A lot of people visit this restaurant as its biryani is famous.

(Alternatively: Lots of people visit this restaurant as its biryani is famous-could have been the correct usage.)

Q13. Answer: (b) gigantic

• The correct answer is Option 2 i.e. 'gigantic'.

• The meaning of the given options:

• Miniscule: small, tiny.

• Dwarf: something much smaller than the usual of its sort.

• Gigantic: Very large.

• Therefore, the word 'gigantic' is the antonym and all other options are synonyms.

Q14. Answer: (b) inevitable

• The correct answer is Option 2 i.e. 'inevitable'.

• The meaning of the given words:

• Indelible: Difficult to delete, remove, wash away.

• Inevitable: Impossible to avoid or prevent.

• Invincible: Too powerful to be defeated or overcome

• Infallible: Without fault or weakness.

• Therefore, 'inevitable' is the best alternative.

Q15. Answer: (c) have been propose

The correct answer is have been propose.

Key Points

• The given sentence is in passive voice. In passive voice, the verb should be in the third form.

• Therefore, change 'have been propose' to 'have been proposed'.

Q16. Answer: (a) abound

- The correct answer is Option 1.
- Abound means to be full to, overflowing.
- Aggravate: to make worse, to exasperate.
- Afloat: floating.
- Therefore, the word 'abound' fits the blank as the choices can be increased but not aggravate or float.

Q17. Answer: (d) try everything possible

- The correct answer is Option 4.
- The meaning of the idiom 'leave no stone unturned' is : Try every possible course of action in order to achieve something.
- Therefore, Option 4 is the best alternative and all other options are irrelevant to the meaning of the idiom.

Q18. Answer: (b) These paintings have been made by the prisoners.

- The correct answer is Option 2.
- Option 1 is wrong because the given sentence is in present tense and use of 'were' is wrong.
- Option 3 is wrong because in this subject and the object have been interchanged.
- Option 4 is wrong because if the active voice is in present perfect tense then the structure followed is 'subject+have+been'.
- Therefore Option 2 follows the structure correctly.

Q19. Answer: (c) CDBA

- The correct answer is Option 3 in which the sentence is arranged in an order.
- The sentence is 'Once Akbar asked his courtiers a very strange question. The courtiers were dumb-founded by his question. Akbar glanced at his courtiers in search of an answer. As he looked at them, their heads began to hang low'.

Q20. Answer: (a) prevent

The correct answer is Option 1.

The meaning of the given options:

- Perpetrate: To do, to commit, be guilty or responsible for a crime.
- Prevent: To stop, to keep from.
- Perform: To execute, to do something.
- Execute: To perform.
- Commit: to do, to perpetrate.

Therefore, 'prevent' is the correct antonym.

Q21. Answer: (b) Reveal

The correct answer is 2 i.e. REVEAL.

Key Points

- Expose- make (something) visible by uncovering it
- Protect - keep safe from harm or injury.
- Reveal- make (previously unknown or secret information) known to others.
- Bury- put or hide underground.
- Hide- put or keep out of sight.
- Thus, the correct answer is reveal

Q22. Answer: (d) Eagle

The correct answer is 4 i.e. eagle.

Key Points

- The other words are incorrectly spelt. The correct words are:
- Early- happening or done before the usual or expected time.
- Earn- obtain (money) in return for labour or services.
- Eerie- strange and frightening.
- Eagle is the right word.

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Q23. Answer: (d) BCDA

The correct answer is BCDA.

Key Points

• Central theme: The first step while arranging the para jumbles should be to identify the Central theme and then the opening sentence.

• Here, after reading all the four sentences you would have got an idea that the four lines revolve around 'prisoners displaying their artwork'.

• Opening Sentence: We can clearly negate A and C to be the opening sentence as they are not mentioning the subject.

• From B and D it is easy to identify option B to be the opening sentence as it establishes the theme of the passage

• Fixed pair: The next step is to identify the mandatory pairs (the pairs that occur in order only).

• Here, we can see C and D as a mandatory pair as D is symbolizing the effect of C.

• Closing Sentence: Lastly, the most important point should be to identify the closing sentence (a sentence that sums up the whole para).

• Clearly, A should be the closing sentence.

Correct rearrangement: The prisoners wanted to display their artwork inside the prison. They took the help of volunteers from the School of Art. The prisoners who were interested in visual arts and painting could study there. Later, they set up their own art school and gallery in the prison.

Q24. Answer: (b) alien

The correct answer is option 2 i.e. alien.

• resident- a person who lives somewhere permanently or on a long-term basis.

• alien- belonging to a foreign country.

• native- associated with the place or circumstances of a person's birth.

• inhabitant - a person or animal that lives in or occupies a place.

Q25. Answer: (a) through the river

The correct answer is option 1 i.e. through the river.

Key Points

• The correct phrase will be across the river.

• Whenever we travel by dividing into two-part we use across.

Q26. Answer: (d) Fungus

Chickenpox is caused by the Virus. (Varicella-zoster virus)

Similarly,

Ringworm is caused by Fungus.

Hence, the correct answer is "Fungus".

Q27. Answer: (a) 8 : 113

The logic is:

7 : 85

$(7 \times 7) + 6^2 = 49 + 36 = 85$

Similarly,

8 : 113

$(8 \times 8) + 72 = 64 + 49 = 113$

The correct answer is 8 : 113.

Q28. Answer: (d) 76

The logic followed here is:

Sum of the place value × 2

Here, V = 44

the positional value of V = 22;

So, 22 × 2 = 44.

For, FAT = 54

F = 6, A = 1 and T = 20

So, FAT = 6 + 1 + 20 = 27
And, 27 × 2 = 54.
Similarly, For LATE,
L = 12, A = 1, T = 20 and E = 5
So, LATE = 12 + 1 + 20 + 5 = 38
And, 38 × 2 = 76.
Hence, the correct answer is "76".

Q29. Answer: (a) HSKPM

The logic followed here is:
Option 1) HSKPM -
Option 2) JQMNP -
Option 3) DWGTJ -
Option 4) PKSHV -
Here, 'HSKPM' doesn't follow the pattern.
Hence, the correct answer is "Option 1".
Alternate Method
Sum of the positional value of letters
HSKPM = 8 + 19 + 11 + 16 + 13 = 67;
JQMNP = 10 + 17 + 13 + 14 + 16 = 70;
DWGTJ = 4 + 23 + 7 + 20 + 10 = 64;
PKSHV = 16 + 11 + 19 + 8 + 22 = 76;
therefore, HSKPM, the sum of all letters is an odd number.
Hence, the correct answer is HSKPM.

Q30. Answer: (c) 2

The logic followed here is:
Given four Dice:
From the first two dice:
Here, 4 and 5 is the common number in the first two dice,
So, the remaining 3 and 2 will be the opposite number.
Hence, the correct answer is "2".

Q31. Answer: (c) ZKQPHT

The logic followed here is: Letter +3, +2, +3, +2, +3, ...!
Here, 'BLEND' is written as 'ENHPG'
Similarly, for 'WINNER'
So, 'WINNER' will be coded as 'ZKQPHT'.
Hence, the correct answer is "ZKQPHT".

Q32. Answer: (c) [figure]

Lethargy, Anxiety and Power are different feelings of human.
Hence, the correct answer is option 3.

Q33. Answer: (d) [figure]

Hence, the correct answer is option 4.

Q34. Answer: (d) [figure]

The correct mirror image of the given Image is:
Hence, the correct answer is "Option 4".

Q35. Answer: (c) 15

The triangles are:
The total number of triangles is '15'.

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Hence, the correct answer is "15".

Q36. Answer: (d) Postcards : Deltiologist

One who studies or collects butterflies is called Lepidopterist.

Similarly,

Deltiologist is one who studies postcards.

Hence, the correct answer is Postcards : Deltiologist.

Q37. Answer: (c) Brother-in-law

As K is the brother of R and S is the husband of R.

Hence, the correct answer is brother-in-law.

Q38. Answer: (d) × and ÷

Given expression: 132 × 11 + 8 – 3 ÷ 12

1) – and ×

132 - 11 + 8 × 1/4 = 132 - 11 + 2

= 134 -11

= 123 ≠ 16

2) + and -

132 × 11 - 8 + 3 ÷ 12

= 132 × 11 - 8 + ¼

= 1452 - 8 + ¼

= 1444 + 1/4 ≠ 16

3) + and ×

132 + 11 × 8 - 3 ÷ 12

= 132 + 11 × 8 - ¼

= 132 + 88 - ¼

= 220 -¼ ≠ 16

4) × and ÷

132 ÷ 11 + 8 - 3 × 12

= 12 + 8 – 36

= 20 - 36 = -16

Hence, the correct answer is option 4

Q39. Answer: (a) 296

Here the logic is :

5 × 2 - 2 = 8;

8 × 2 + 4 = 20;

20 × 2 - 6 = 34;

34 × 2 + 8 = 76;

76 × 2 - 10 = 142;

Similarly,

142 × 2 + 12 = 296

Hence, the correct answer is 296.

Q40. Answer: (d) 4, 3, 1, 5, 2

The size of the animals are fly < rat < monkey < lion < elephant.

Hence, the correct answer is 4, 3, 1, 5, 2.

Q41. Answer: (d) [figure]

The logic followed here is:

So, the complete series is:

Hence, the correct answer is option 4.

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Q42. Answer: (c) [figure]

Hence, the correct answer is option 3

Q43. Answer: (c) Amble

Bray is voice of donkey.

Hoot is voice of owls.

amble means relaxation.

roar is voice of lion

therefore, all are sound except amble.

Hence, the correct answer is amble.

Q44. Answer: (c) Only conclusion I follows.

Concept:

1) We have to check the conclusions are 100% match with the statement. If the conclusion is 100% match with the given statement then the conclusion is true. If there is a 1% chance of not following the statement then the conclusion is considered to be false.

2) The possibility case can be considered to be "false" in "definite case".

3) In Possibility case, either "can" or "possible" word must be present.

the correct answer is option 3 i.e. Only conclusion I follows.

Conclusions:

I. Some balloons are rocks → True.

II. Some watches are oceans → False (As per diagram, no relation is between watches and oceans)

III. All oceans are rocks → False (Some oceans are rocks is true)

Hence, the correct answer is Only conclusion I follows.

Additional Information

Q45. Answer: (d) 3128

The logic is:

51 - 38 = 13

71 - 58 = 13

91 - 78 = 13

31 - 28 = 3

Hence, the correct answer is 3128.

Q46. Answer: (a) 4

EXPLANATION:

The purchase value of 1 plastic toy and spoon = Rs. 7 + Rs. 5 = Rs. 12

Now, Value of 2 Plastic toys and 2 Spoon = 12 × 2 = Rs. 24

Given, X spends Rs. 38

Remaining amount (after purchasing 2 Plastic toys and 2 Spoon) = 38 – 24 = Rs. 14

So, only 2 plastic toys can be purchased from the above amount.

Therefore Required number of Plastic toys = 2 + 2 = 4

Hence, the correct answer is "4".

In this question, a Number of plastic toys were asked (not total number of plastic items).

Here Total number of plastic items = 6

Total number of plastic toys = 4

Go through the options:

Option 1:

4 Plastic toys costs Rs. 4 × 7 = Rs. 28

Remaining Amount (38 - 28) = Rs. 10

Plastic spoon costs Rs. 5 per item

Since 10 is divisible by 5

Therefore Option 1 is correct.

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Q47. Answer: (b) (2, 208, 6)

The logic followed here is:

(3rd number)³ - (1st number)³ = 2nd number.

Now, (4, 152, 6)

$4^3 = 64$ and $6^3 = 216$

So, 216 – 64 = 152;

Similarly,

1) (5, 287, 8)

$5^3 = 125$ and $8^3 = 512$

So, 512 – 125 = 387;

2) (2, 208, 6)

$2^3 = 8$ and $6^3 = 216$

So, 216 – 8 = 208;

3) (3, 55, 4)

$3^3 = 27$ and $4^3 = 64$

So, 64 – 27 = 37;

4) (4, 179, 7)

$4^3 = 64$ and $7^3 = 343$

So, 343 – 64 = 279;

Hence, the correct answer is "Option 2".

Q48. Answer: (a) (11, 35, 107)

The logic followed here is:

1st number × 3 + 2 = 2nd number,

2nd number × 3 + 2 = 3rd number.

Here, (4, 14, 44)

4 × 3 + 2 = 14

and, 14 × 3 + 2 = 44

Similarly,

1) (11, 35, 107)

11 × 3 + 2 = 35

and, 35 × 3 + 2 = 107;

2) (7, 23, 69)

7 × 3 + 2 = 23

and, 23 × 3 + 2 = 71;

3) (9, 30, 57)

9 × 3 + 3 = 30

and, 30 × 2 - 3 = 57;

4) (5, 15, 30)

5 × 3 + 0 = 15

and, 15 × 2 + 0 = 30;

Hence, the correct answer is "Option 1".

Q49. Answer: (b) TFSD

The logic followed here is:

Here, GATE : HXYX

Similarly, for SINK:

Hence, the correct answer is "TFSD".

Q50. Answer: (d) cccaccd

The sequence will be:

By checking options and substituting accordingly.

1. acacdcc → abcad / abcad / cbdcd / abccc

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2. cacacdc → abccd / abacd / abccd / abdcc
3. ccaacdc → abccd / abcad / abccd / abdcc
4. cccaccd → abccd / abccd / abccd / abccd

• In option (4) 'abccd' is repeated.

Hence the correct answer is "Option 4".

Q51. Answer: (c) D received Rs. 872 less

When sum was divided into 3 : 4 : 5 : 8, Let the sum with A, B, C and D be 3x, 4x, 5x and 8x.

According to the question,

=> 3x + 4x + 5x + 8x = 4360

=> x = 218.

Therefore sum with A = 3 × 218 = 654

Sum with B = 4 × 218 = 872

Sum with C = 5 × 218 = 1090

Sum with D = 8 × 218 = 1744

When sum was divided into 13 : 14 : 5 : 8, Let the sum with A, B, C and D be 13a, 14a, 5a and 8a.

According to the question,

=> 13a + 14a + 5a + 8a = 4360

=> 40a = 4360

=> a = 109

sum with A = 13 × 109 = 1417

Sum with B = 14 × 109 = 1526

Sum with C = 5 × 109 = 545

Sum with D = 8 × 109 = 872

Change in A’s share = (1417 - 654) = 763 more

Change in B’s share = (1526 - 872) = 654 more

Change in C’s share = (1090 - 545) = 545 less

Change in D’s share = (1744 - 872) = 872 less

Shortcut Trick

condidtion1 : A: B: C : D = 3 : 4 : 5 : 8 (SUM 20) × 2

condidtion2 : A: B: C : D = 13 : 14 : 5 : 8 (SUM40) × 1

Change in A’s share = [(13 - 6) × 4360]/40 = 763 (+)

B’s share = [(14 -8) × 4360]/40 = 654 (+)

C’s share = [(10 - 5) × 4360]/40 = 545 (-)

D’s share = [(16 - 8) × 4360]/40 = 872 (-)

Q52. Answer: (a) 6.25%

Given:

MP = Rs. 600,

Discount = 25%,

Loss = Rs.30

Formula Used:

Loss = CP – SP

Loss % = (CP – SP)/CP × 100

Calculation:

SP = 600 × 75/100 = Rs.450

Loss = CP – SP

=> 30 = CP – 450

=> CP = Rs.480

%Loss = (30/480) × 100 = 6.25%.

Therefore The loss percentage is 6.25%

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Q53. Answer: (a) 1/2

Calculation:

(tan 13° tan 37° tan 45° tan 53° tan 77°)/[2 Cosec²60°(Cos²60°– 3cos 60° + 2)]

=> [tan(90° – 77°).tan(90° – 53°).tan45°.tan53°.tan77°)]/[2 Cosec²60°(Cos²60°– 3cos60° + 2)]

=> (cot77°.cot53° × 1 × tan 53° tan 77°)/[2 × 4/3 (1/4 – 3/2 + 2)

=> 1/[8/3 × 3/4]

=> 1/2

Therefore The required value is 1/2

Q54. Answer: (c) 6

Given that,

$8x^2 + y^2 – 12x – 4xy + 9 = 0$

$=> (4x^2 + y^2 – 4xy) + (4x^2 – 12x + 9) = 0$

$=> (2x - y)^2 + (2x - 3)^2 = 0$

=> 2x = y, 2x = 3

=> x = 1.5, y = 3

On putting in (14x – 5y) = 14 × 1.5 – 5 × 3 = 6.

Q55. Answer: (c) Rs. 4440

The area of a regular hexagon = $(3\sqrt{3}/2).side^2$

According to the question,

$=> 2400\sqrt{3} = (3\sqrt{3}/2).side^2$

=> side = 40 m.

Perimeter of hexagonal field = 6 × side = 6 × 40 = 240 m

Cost of fencing = 18.50 × 240 = Rs.4440

Q56. Answer: (c) 18

The average number of type A, B and D vehicles exported in 2015 = (35 + 33 + 55)/3 = 41 lakh

The number of type E vehicles exported in 2014 = 50

According to the question,

x% = (50 – 41)/50 × 100 = 18%

Q57. Answer: (b) 35

Given x + y + z = 19 and xy + yz + zx = 114

Consider, x + y + z = 19

Squaring on both sides, we get

$(x + y + z)^2 = (19)^2$

$x^2 + y^2 + z^2 + 2(xy + yz + zx) = 361$

$=> x^2 + y^2 + z^2 = 361 − 2(xy + yz + zx)$

$=> x^2 + y^2 + z^2 = 361 – 2 × 114 = 133$

Therefore $x^2 + y^2 + z^2 = 133$

We know that $x^3 + y^3 + z^3 − 3xyz = (x + y + z)(x^2 + y^2 + z^2 − xy − yz − zx)$

$x^3 + y^3 + z^3 − 3xyz = 19 × [133 – 114]$

On adding 4xyz both sides,

$x^3 + y^3 + z^3 + xyz = 19 × 19 + 4 × 216 = 1225$

Taking square root on both sides,

$\sqrt{(x^3+ y^3+ z^3+ xyz)} = \sqrt{1225} = 35.$

Alternate Method Formula used:

$x3 + y3 + z^3 = (x + y + z)[(x + y + z)^2 - 3(xy + yz + zx) + 3xyz$

Calculation:

We have-

√(x3 + y3 + z3 + xyz)

=> √[(x + y + z){(x + y + z)2 - 3(xy + yz + zx)} + 3xyz+ xyz]

=> √19 × (19² - 3 × 114) + 4 × 216
=> √19(361 - 342) + 864
=> √19 × 19 + 864
=> √1225
=> 35
Therefore The required value is 35.

Q58. Answer: (d) B

% increase in export in 2015 in vehicle A = (35 - 27)/27 × 100 = 29.62%
% increase in export in 2015 in vehicle B = (33 – 25)/25 × 100 = 32%
As B is the vehicle whose export was increased by 32% from year 2014 to 2015.
So we don't have to calculate further.

Q59. Answer: (d) √3

=> 2cos²θ – 5cos θ + 2 = 0
=> 2cos²θ – 4cos θ – cosθ + 2 = 0
=> 2cosθ(cosθ – 2) – 1(cosθ – 2) = 0
=> (2cosθ – 1)(cosθ – 2) = 0
=> cosθ = (1/2, 2)
(Because value of cosθ can not be beyond 1, Therefore take cosθ = ½)
cosθ = ½ = cos60°
=> θ = 60°
On putting in (cosecθ + cotθ) = (cosec60° + cot60°)
=> (2/√3) + (1/√3) = 3/√3 = √3.

Q60. Answer: (b) 64.2%

The total number of type B, D and E vehicles exported in 2014 = 25 + 45 + 50 = 120
The total number of type A, C, D and E vehicles exported in 2015 = 35 + 40 + 55 + 57 = 187
Required percentage,
=> 120 = 187 × x/100
=> 64.17% or 64.2% (approx.)

Q61. Answer: (c) 50/9

Follow BODMAS rule to solve this question, as per the order given below,
Step-1 - Parts of an equation enclosed in 'Brackets' must be solved first,
Step-2 - Any mathematical 'Of' or 'Exponent' must be solved next,
Step-3 - Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,
Step-4 - Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.
Now, given expression:
=> 3/4 ÷ 3/4 of 3/4 × 4/3 + 5/2 ÷ 2/5 of 5/4 – (2/3 + 2/3 of 5/6)
=> 3/4 ÷ 9/16 × 4/3 + 5/2 ÷ 1/2 - (2/3 + 5/9)
=> 3/4 × 16/9 × 4/3 + 5 – 11/9
=> 16/9 + 5 – 11/9
=> 61/9 – 11/9
=> 50/9

Q62. Answer: (b) 5 cm

Calculation:
In ΔOBC,
Let the angle OCD = angle ODC = x° (OC = OD are the radii of the same circle)
x° + x° + 60° = 180°
=> x° = 60°
Theorem: The angle made in half circle angle ACD = 90°
angle ACO = 90° - angle OCD => 90° - 60° = 30°

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Also, angle ABO + angle OBC = 180°
=> 60° + angle OBC = 180°
=> angle OBC = 120°
In ΔOBC,
angle BOC + angle OBC + angle OCB = 180°
=> angle BOC + 120° + 30° = 180°
=> angle BOC = 30°
Theorem: In a triangle if two angles are same then the respective sides of the triangle will be the same.
angle OCB = angle BOC = 30°
OB = BC = 5 cm.

Q63. Answer: (b) cosec θ

Cot θ/[(1 – sin θ) (1/co sθ + sin θ/cos θ)]
=> Cot θ/[(1 – sin θ)(1 + sin θ)/cos θ]
=> cot θ/[(1 – $\sin^2\theta$)/cos θ]
=> cot θ/[$\cos^2\theta$/cos θ]
=> cot θ/cos θ
=> cosec θ

Q64. Answer: (d) 7 : 9

The total number of type A and C vehicles exported in 2014 = 27 + 43 = 70
The total number of type B and E vehicles exported in 2015 = 33 + 57 = 90
Required ratio = 7 : 9

Q65. Answer: (b) 4 : 21

Using Thales theorem,
BD : AB = DE : AC
Therefore the ΔBDE is similar to ΔABC
Theorem: The ratio of sides of two similar triangles is equal to the ratio of the square root of the area of two triangles.
Therefore the ratio of the area of the two triangles ΔBDE: ΔABC = $(2: 5)^2$= 4: 25
The area of the trapezium ACED = 25k – 4k = 21k
The ratio of the area of the ΔBDE : Trapezium ACED = 4K : 21K = 4 : 21.

Q66. Answer: (d) Rs. 91.50

Shortcut Trick
Effective Simple Interest rate for 15 months = 12% × (15/12) = 15%.
Interest for Compound Interest (5-monthly) = 12% × (5/12) = 5% per period for 3 periods.
Effective Compound Interest rate = 5 + 5 + 5 + (5×5 + 5×5 + 5×5)/100 + (5×5×5)/10000 = 15.7625%.
Difference in interest rate = 15.7625% − 15% = 0.7625%.
Difference in value = 0.7625% of Rs. 12,000 = (0.7625 ÷ 100) × 12000 = Rs. 91.50.
Therefore The correct answer is Rs. 91.50.
Alternate Method
Given:
Principal (P) = Rs. 12,000
Rate of Interest (R) = 12% per annum
Time (T) = 1¼ years = 15 months
Compounding = 5-monthly
Formula Used:
Simple Interest (SI) = (P × R × T) ÷ 100
Amount (A) for CI = $P(1 + r/100)^n$
Calculations:
=> Simple Interest (SI) = (12000 × 12 × 1.25) ÷ 100
=> SI = 120 × 15 = Rs. 1,800

=> For Compound Interest, r = (12 ÷ 12) × 5 = 5% per period
=> Number of periods (n) = 15 ÷ 5 = 3
=> Amount (A) = $12000(1 + 5/100)^3$
=> A = 12000 × (21/20) × (21/20) × (21/20)
=> A = 12000 × (9261 ÷ 8000) = 1.5 × 9261 = Rs. 13,891.50
=> Compound Interest (CI) = Amount − Principal = 13891.50 − 12000 = Rs. 1,891.50
=> Difference = CI − SI = 1891.50 − 1800 = Rs. 91.50
Therefore The correct answer is Rs. 91.50.
Additional Information
Effective Interest Rate for 3 periods
For a rate of r% per period over 3 periods, the effective compound interest rate is calculated as: $3r + 3r^2/100 + r^3/10000$.
Difference between CI and SI for 3 Years (annual)
The difference formula is: Difference = $P(R/100)^2 \times (300 + R)/100$, where R is the annual rate.
Compounding Period Rule
If interest is compounded k-monthly, the new rate r = (R ÷ 12) × k and the number of periods n = (Total months ÷ k).

Q67. Answer: (a) 22

To check the divisibility by 88,
It should be divisible by 8 and 11.
We know that the last three digits of a number should be divisible by 8.
=> The number made from the last three digits without altering their position will be divisible by 8
=> Possible values of y are 1, 5 and 9
Because y is the smallest, the value of y will be 1.
Now, let's check the divisibility rule of 11,
=> 4 + x + 1 + 5 + 2 - (3 + 1 + 4 + y)
=> 12 + x - 9 = 3 + x
Hence the possible value of x will be 8.
Therefore Value of (3x – 2y) = 3 × 8 - 2 × 1 = 22

Q68. Answer: (a) 40°

Given:
Calculation:
angle BPC = 90° – (angle CAB°/2)
=> angle BPC = 90° – (40°/2)
=> angle BPC = 90° – 20°
=> angle BPC = 70°
angle OCA = angle OBA = 90° ...(radius perpendicular to tangent)
In OBAC,
angle BOC + angle OCA + angle CAB + angle ABO = 360°
=> angle BOC + angle 90° + angle 40° + angle 90° = 360°
=> angle BOC + 220° = 360°
=> angle BOC = 360° – 220° = 140°
As line CP parallel to AB,
=> angle BCP = angle CBA ...(alternate angles)
In ΔABC,
=> angle A + a° + a° = 180°
=> 40° + 2a° = 180°
=> a° = 70°
Now, In ΔBPC,
=> angle CBP + 70° + 70° = 180°
=> angle CBP + 140° = 180°
=> angle CBP = 180° – 140° = 40°

Therefore angle CBP is 40°

Q69. Answer: (c) 76

Let the numbers be a, b and c.
According to the question,
(a + b)/2 + c = 177 or a + b + 2c = 354 ….(1)
(b + c)/2 + a = 163 or 2a + b + c = 326 ….(2)
(c + a)/2 + b = 138 or a + 2b + c = 276 ….(3)
On solving the three equations,
c = 115, b = 37, a = 87
Required average = (115 + 37)/2 = 76.
Alternate Method
adding eq. (1) and (3), we get
2a + 3b + 3c = 354 + 276 = 630 ….(4)
On subtracting eq(2) from eq(4), we get
2b + 2c = 630 - 326 = 304
(b + c) = 304/2 = 152
Required average = (b + c)/2 = 152/2 = 76

Q70. Answer: (b) 54°

Let angle DBP = angle PBC = a°
And also angle ECP + angle PCB = b°
angle ABC = 180° - 2a° and angle ACB = 180° - 2b°
In ΔABC,
180° - 2a° + 72° + 180° - 2b° = 180°
a° + b° = 126°
In ΔPBC,
a° + b° + x° = 180°
x° = 180° - 126° = 54°
angle BPC = 90° - (1/2) × angle A
Here, angle A = 72°
Therefore angle BPC = 90° - (1/2) × 72°
=> angle BPC = 90° - 36° = 54°

Q71. Answer: (a) 35.7% increase

Let the income and expenditure be 100x and 72x respectively.
Savings = Income – Expenditure = 100x – 72x = 28x
New income = 100x + 100 × 28/100 = 128x
New expenditure = 72x + 72x × 25/100 = 90x
New savings = 128x – 90x = 38x
Required percentage = (38x – 28x)/28x × 100 = 35.7%

Q72. Answer: (c) 15

B’s time taken to complete 331/3% or 1/3^(rd) of the total work = 15 days
B’s time taken to do the complete work = 3 × 15 = 45 days
Total work = LCM of (A + B)’s time taken and B’s time taken.
Total work = LCM of 25 and 45 days = 225 units
(A + B)’s efficiency = 225/25 = 9 units/day (Because efficiency = total work/time taken)
B’s efficiency = 225/45 = 5 units/day
A’s efficiency = (9 – 5) = 4 units/day
4/15^(th) of the same task = 225 × 4/15 = 60 units
A’s time taken to this work = 60/ 4 = 15 days

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Q73. Answer: (b) 10%

Let the cost price and selling price of per article are CP and SP.
Given, Loss = 8 × SP
Also,
Loss = 72 × CP – 72 × SP
=> 8 × SP = 72 × CP – 72 × SP
=> 80 × SP = 72 × CP
=> CP/SP = 80/72
Loss percentage = (80 - 72)/80 × 100 = 10%
Let SP of an article = Re 1
Hence, total SP = 72 and loss = 8
now, CP = SP + loss = 80
Loss percentage = (8/80) × 100 = 10%

Q74. Answer: (b) 24

Calculation:
Let the distance traveled be 2x.
Distance traveled in each directions = x
Since, Time taken = Distance/Speed
According to the question,
=> x/12 + x/9 = 7/3
=> x = 12 km
Therefore The total distance travelled by the man = 2 × 12 = 24 km (Forward and backward)
Alternate Method
Formula used:
Average speed = 2ab/(a + b)
Distance = Speed × Time
Calculation:
Average speed = 2 × 12 × 9/(12 + 9)
=> 2 × 12 × 9/21
=> 72/7 km/h
Distance = (72/7) × (7/3)
=> 24 km
Therefore The required distance is 24 km.

Q75. Answer: (b) 0.133

Given that,
(x + y) = 7
On squaring both the side,
$x^2 + y^2 + 2xy = 7^2$
=> $(x^2 + y^2) = 49 – 2 × 10 = 29$
According to the question,
$(1/x^3 + 1/y^3) = (x^3 + y^3)/(xy)^3$
=> $[(x + y) (x^2 + y^2 - xy)]/(xy)^3$
=> $[7 × (29 -10)]/10^3$
=> 133/1000 = 0.133.
Shortcut Trick
putting the value x = 2, y = 5
so $(1/x3 + 1/y3) = (1/5^3 + 1/2^3) = (1/125 + 1/8) = 133/1000 = .133$

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Q76. Answer: (c) IBM

The correct answer is option 3, i.e. IBM.

• AIX stands for Advanced Interactive eXecutive.

• It is an open operating system from IBM that is based on a version of UNIX.

• IBM is a technology giant, its headquarter situated in Armonk, New York, United States.

COMPANY NAME	HEAD
IBM	Virginia M. (Ginni) Rometty
Microsoft	Satya Nadella
Apple	Tim Cook
Unisys	Peter Altabef

Q77. Answer: (c) Kutiyattam

The correct answer is option 3,i.e. Kutiyattam.

• Kutiyattam, Sanskrit theatre, which is practised in Kerala, is one of India's oldest living theatrical traditions.

• Originating more than 2,000 years ago, Kutiyattam represents the local traditions of Kerala.

• Kuttampalams is one type of Kutiyattam which is traditionally performed in theatres, which are located in Hindu temples.

• Theyyam, Chakyar Koothu and Thiruvathirakali are the art-forms of Kerala.

Q78. Answer: (b) West Bengal

The correct answer is option 2, i.e. West Bengal.

• Chhattisgarh is a state of central India.

• On 1 November 2000, this state was carved out of Madhya Pradesh.

• Its capital is Raipur.

• This state is bounded by the Indian states of Uttar Pradesh and Jharkhand to the north and northeast, Odisha (Orissa) to the east, Telangana (formerly part of Andhra Pradesh) to the south, and Maharashtra and Madhya Pradesh to the west.

Q79. Answer: (b) Jagjivan Ram

The correct answer is option 2, i.e. Jagjivan Ram.

• Jagjivan Ram was born on 5 April 1908 in Bihar.

• He was the Indian politician, government official, and longtime leading spokesman for the Dalits (formerly untouchables; officially called Scheduled Castes), a low-caste Hindu social class in India.

• He served in the Lok Sabha (lower chamber of the Indian parliament) for more than 40 years.

Q80. Answer: (b) Devil's Advocate: The Untold Story

The correct answer is option 2, i.e. Devil's Advocate: The Untold Story.

Books name	Writer
Devil's Advocate: The Untold Story	Karan Thapar
Rebel Sultans	Manu S. Pillai
Why I Am a Hindu	Shashi Tharoor
Happyness	Yusuf Merchant

Q81. Answer: (a) Football

The correct answer is option 1) i.e. Football.

Some other sports and cups:

Sports	Cups or trophies

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Football	Rovers Cup, Bandodkar Trophy, Merdeka Cup, Confederation Cup, DCM Trophy, Durand Cup, B.C. Raj Trophy(National Championship), FIFA World cup, Jules Rimet Trophy, Indian Super League, Kalinga Cup, Santosh Trophy, IFA Shield, Scissor Cup, Subroto Cup, Sir Ashutosh Mukherjee Trophy, Todd Memorial Trophy, Vittal Trophy, UEFA Champions League.
Cricket	Ashes Cup, Asia Cup, C.K Naidu Trophy, Cooch Behar Trophy, Deodhar Trophy, Duleep Trophy, Gavaskar Border Trophy, G.D Birla Trophy, Gillette Cup, ICC World Cup, IPL, Irani Trophy, Jawaharlal Nehru Cup, Rani Jhansi Trophy, Ranji Trophy, Rohinton Baria Trophy, Rothmans Cup, Sahara Cup, Sharjah Cup, Singer Cup, Titan Cup, Vijay Hazare Trophy, Vijay Marchent Trophy, Wisden Trophy and Wills Trophy.
Badminton	Amrit Diwan Cup, Asia Cup, Chaddha Cup, European Cup, Harilela Cup, Ibrahim Rahimatillah, Challenger Cup, Konica Cup, Sophia Cup, Kitiakara Cup, Malaysian Open, Thomas Cup (Men) and Uber Cup(Women)
Hockey	Aga Khan Cup, Maharaja Rajit, Singh Gold Cup, Dhyanchand Trophy, Sultan Azlan Shah Cup, Wales Trophy, Stanley Cup, Sindhia Gold Cup, Wellington Cup.

Q82. Answer: (c) Alan Emtage

The correct answer is option 3) i.e. Alan Emtage.

• Alan Emtage is known as the father of the search engine.

• The first search engine is Archie.

• He was born on 27 November 1964 in Barbados.

• In 1983 Emtage entered McGill University in Montreal, Canada studying for an honours Bachelor's degree in computer science which was followed by a Master's degree in 1987 from which he graduated in 1991.

Q83. Answer: (d) Sikkim

The correct answer is option 4) i.e. Sikkim.

• Prem Singh Tamang is the Chief Minister of Sikkim.

• Sikkim, state of India, located in the northeastern part of the country, in the eastern Himalayas. It is one of the smallest states in India.

• Sikkim is bordered by the Tibet Autonomous Region of China to the north and northeast, by Bhutan to the southeast, by the Indian state of West Bengal to the south, and by Nepal to the west.

• The capital is Gangtok, in the southeastern part of the state.

• Pakyong airport is the first airport in Sikkim.

Q84. Answer: (d) 182 m

The correct answer is option 4) i.e. 182 m.

• The Statue of Unity is a colossal statue of Sardar Vallabhbhai Patel.

• It is located on a river island facing the Sardar Sarovar Dam on river Narmada, Vadodara, Gujarat.

• It is the world tallest statue with a height of 182 m.

• Sardar Vallabhbahi Patel was the first home minister of independent India.

Q85. Answer: (a) Nepal

The correct answer is option 1) i.e. Nepal.

• The Sunauli border is the most popular entry point from India to Nepal.

• On the Indian side, Sunauli is a dusty town in Uttar Pradesh.

• The capital of Nepal is Kathmandu.

• The Indian states that touch the border with Nepal are Bihar, Uttar Pradesh, Uttarakhand, West Bengal and Sikkim.

Q86. Answer: (b) Jyotirao Phule

The correct answer is option 2) i.e. Jyotirao Phule.

• Jyotirao ‘Jyotiba’ Govindrao Phule was a prominent social reformer and thinker of the nineteenth century India.

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• He led the movement against the prevailing caste-restrictions in India.
• He revolted against the domination of the Brahmins and struggled for the rights of peasants and other low-caste people.
• Mahatma Jyotiba Phule was also a pioneer for women education in India and fought for the education of girls throughout his life.
• He is believed to be the first Hindu to start an orphanage for the unfortunate children.

Q87. Answer: (b) Karambir Singh

The correct answer is option 2) i.e. Karambir Singh.
• Admiral Karambir Singh is the 24th and current Chief of the Naval Staff of the Indian Navy.
• He replaced Sunil Lanba on May 31, 2019.
• He was born in Jalandhar on 3rd November 1959.
• He got Param Vishisht Seva Medal and Ati Vishisht Seva Medal.

Q88. Answer: (d) Car Racing

The correct answer is option 4) i.e. Car Racing.
• Karun Chandhok is an Indian car racing driver.
• His last competition was Formula E for Mahindra Racing.

Q89. Answer: (b) Telangana

The correct answer is option 2) i.e. Telangana.
• The Telangana government is going to set up the country's first 'Blockchain district' to create an ecosystem for all the start-ups and institutes working in the space.
• The State signed an agreement with Tech Mahindra last year to set up the Blockchain district.
• Blockchain is a system in which a record of transactions made in bitcoin or another cryptocurrency is maintained across several computers that are linked in a peer-to-peer network.

Q90. Answer: (d) Kerala

The correct answer is option 4) i.e. Kerala.
Key Points
• Ottamthullal is an art form performed only in Kerala.
• The meaning of Ottamthullal is 'poor man's Kathakali'.
• Kunchan Nambiar created this dance form, as an alternative to the Chakyar koothu.
• To protest against the prevalent socio-political structure and prejudices of the society, Kunchan Nambiar used it as a medium.
• Now it is a famous folk art presented in the temples of Kerala.
Additional Information
• Some other dance forms of Kerala:
• Theyyam
• Thiruvathirakali
• Chakyar Koothu
• Koodiyattam
• Kathakali(Classical)
• Mohiniattam(Classical).

Q91. Answer: (b) Pancreas

The correct answer is option 2, i.e. Pancreas.
• Lipase is an enzyme that splits fats so the intestines can absorb them.
• Lipase hydrolyses fats like triglycerides into their component fatty acid and glycerol molecules.
• It is secreted by Pancreas.
• Pancreas is a composite gland which acts as both exocrine glands (contains exocrine cells) and endocrine gland(contains endocrine cells).
• Endocrine glands secrete chemical substances into the bloodstream or tissues of the body.
• Exocrine glands secrete substances onto an epithelial surface by way of a duct.

Q92. Answer: (b) John Stuart Mill

The correct answer is option 2, i.e. John Stuart Mill.
• John Stuart Mill was an English philosopher, economist, and exponent of Utilitarianism.

• He was prominent as a publicist in the reforming age of the 19th century and remains of lasting interest as a logician and an ethical theorist.

• 'Principles of Political Economy' by John Stuart Mill was one of the most important economics or political economy textbooks of the mid-nineteenth century.

Q93. Answer: (d) Dras

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

• Dras is a town in the Kargil District of Leh.

• It is often called "The Gateway to Ladakh".

• Dras is widely recognized as the second coldest inhabited place in the world.

Q94. Answer: (c) Palakkad

The correct answer is option 3,i.e. Palakkad.

• Walayar Dam is a dam in Palakkad district of Kerala, South India.

• This dam is constructed across the Walayar River which is a tributary of Kalpathipuzha River.

• It was completed and opened in 1964.

• It is one of the major sources of irrigation in the region.

Q95. Answer: (a) Walmart

The correct answer is option 1,i.e. Walmart.

• Walmart is an American multinational retail corporation.

• Founder of Walmart is Sam Walton.

• CEO of Walmart is Doug McMillon.

Q96. Answer: (c) Benjamin Franklin

The correct answer is option 3,i.e. Benjamin Franklin

• Benjamin Franklin was an American printer and publisher, author, inventor and scientist, and diplomat.

• Franklin helped draft the Declaration of Independence and was one of its signers, represented the United States in France during the American Revolution, and was a delegate to the Constitutional Convention.

• He made important contributions to science, especially in the understanding of electricity, and is remembered for the wit, wisdom, and elegance of his writing.

• He first coined the term "battery" to describe linked capacitors.

Q97. Answer: (d) Anatomy

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

• Anatomy is the branch of biology concerned with the study of the structure of organisms and their parts. Anatomy is a branch of natural science that deals with the structural organization of living things.

Name	Meaning
Ecology	the branch of biology that deals with the relations of organisms to one another and to their physical surroundings.
Mycology	Mycology is the branch of biology that deals with the study of fungi.
Chronobiology	the branch of biology concerned with cyclical physiological phenomena.

Q98. Answer: (c) 30 May 2019

The correct answer is option 3, i.e. 30 May 2019.

• The first match of ICC Cricket World Cup 2019 was played between hosts England and South Africa on May 30.

• It was played at the Kennington Oval in London.

• The total numbers of teams were 10, they are England (hosts), Australia, Bangladesh, India, New Zealand, Pakistan, South Africa, Sri Lanka, Afghanistan and West Indies.

Q99. Answer: (a) Goa

The correct answer is option 1,i.e. Goa.

• The Department of Industrial Policy and Promotion (DIPP) in the Ministry of Commerce and Industry and the Government of

Goa, hosted the annual Startup India Venture Capital Summit in Goa on December 07, 2018.

• The theme of the Summit was 'Mobilizing Global Capital for Innovation in India.'

• The event showcased the Indian startup opportunity for funds from around the world.

• The summit aims to attract more global capital into the country. The event enabled a dialogue between Government and experienced Venture Capital fund managers on ways to further promote the startup ecosystem in India.

Q100. Answer: (b) Immediate Payment Service

The correct answer is option 2, i.e. Immediate Payment Service.

• Immediate Payment Service is an instant payment inter-bank electronic funds transfer system in India.

• It was founded on 22 November 2010.

• National Payments Corporation of India is the owner of this system.

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