SSC CHSL Previous Paper 24 (Held On: 11 Jul 2019 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

Mahesh said to the interviewer, "Sir, I was in charge of the production unit at my previous office."

(a) Mahesh told the interviewer that Sir was in charge of the production unit at my previous office.
(b) Mahesh told the interviewer that he had been in charge of the production unit at his previous office.
(c) Mahesh told the interviewer you were in charge of the production unit at my previous office.
(d) Mahesh told the interviewer I was in charge of the production unit at his previous office.

Q2. Select the most appropriate antonym of the given word.

VIRULENT

(a) amicable
(b) dangerous
(c) lethal
(d) powerful

Q3. 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.

After going through their brochure I has decided to make a donation to help their campaign.

(a) I decide to make a donation for helping
(b) No improvement
(c) I decided for making a donation to help
(d) I decided to make a donation to help

Q4. Select the most appropriate word to fill in the blank.

A fresh interest rate cut by the Reserve Bank of India would largely _____ on how the monsoon turns out in the months ahead.

(a) demonstrate
(b) define
(c) determine
(d) depend

Q5. Select the most appropriate meaning of the given idiom

in a nutshell

(a) express very briefly
(b) add nuts into something
(c) packed very tightly
(d) put everything in a shell

Q6. Choose the correct meaning of the idiom.

Be an open book

(a) one who advises others to be frank and unsecretive
(b) one who is fond of reading even when travelling
(c) one who has written an examination without preparation
(d) one about whom it is easy to know everything

Q7. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Today flax is used to make fine linen fabric.
B. The Neolithic man first clad himself with animal skins.
C. He also used flax which had a good fibre for making cloth.
D. But in those days cloth made of flax must have been very rough.

(a) DABC
(b) BDAC
(c) BCDA
(d) CADB

Q8. Select the most appropriate word for the given group of words

A game in which no one wins

(a) conquest
(b) draw
(c) triumph
(d) feat

Q9. Select the most appropriate synonym of the given word.

CAMOUFLAGE

(a) divulge
(b) expose
(c) exhibit
(d) disguise

Q10. Select the correctly spelt word.

(a) speculetive
(b) substentive
(c) tantative
(d) remunerative

Q11. Select the correct passive form of the given sentence.

The cyclone has damaged several crops.

(a) Several crops have damaged the cyclone.
(b) Several crops had been damaged by the cyclone.
(c) Several crops are being damaged by the cyclone
(d) Several crops have been damaged by the cyclone.

Q12. Select the wrongly spelt word

(a) oppression
(b) opposition
(c) oppurtunity
(d) opulence

Q13. Select the most appropriate word for the given group of words

A strong and fast moving stream of water

(a) Trickle
(b) Torrent

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(c) Creek
(d) Rivulet

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.

With the groundwater table receding alarmingly, an ostrich mentality will only increase water woes. Deficit rainfall (1) ____ indiscriminate extraction of ground water (2) __ two major reasons for (3) __ situation. Government must promote (4) __ harvesting and conservation. Citizens must (5) ____ learn to use water judiciously or else the State will run out of water like Cape Town.

Q14. Select the most appropriate option to fill in blank No.1.

(a) but
(b) also
(c) and
(d) unless

Q15. Select the most appropriate option to fill in blank No.2.

(a) be
(b) was
(c) are
(d) is

Q16. Select the most appropriate option to fill in blank No.3.

(a) a
(b) those
(c) their
(d) the

Q17. Select the most appropriate option to fill in blank No.4.

(a) crop
(b) water
(c) seed
(d) soil

Q18. Select the most appropriate option to fill in blank No.5.

(a) also
(b) anyhow
(c) although
(d) already

Q19. Select the most appropriate antonym of the given word.

GAUNT

(a) Plump
(b) Old
(c) Bent
(d) Lean

Q20. 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.

The government has adopted a tough stance with respect of terror and security.

(a) about respect to
(b) No improvement
(c) with respect to
(d) in respect of

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Q21. Fill in the blank :-

The pilgrims grew increasingly aware of the _____ of sacred Buddhist texts in the Chinese language and decided to travel to India in search of them.

(a) preference
(b) persistence
(c) paucity
(d) parity

Q22. Identify the segment in the sentence which contains the grammatical error.

We will use enamel paint on this wall because it gives a best finish.

(a) enamel paint on this wall
(b) a best finish
(c) We will use
(d) because it gives

Q23. Identify the segment in the sentence which contains the grammatical error.

The little boy was so busy playing with his toy train that he do not even look up at us.

(a) look up at us
(b) busy playing with
(c) he do not even
(d) his toy train

Q24. Select the most appropriate synonym of the given word.

MINIATURE

(a) colossal
(b) diminutive
(c) gigantic
(d) mammoth

Q25. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Baskets and carts flooded the street turning it into a mobile market.

B. Hearing their cries people with bags started coming out from their ho uses.

C. Suddenly the street came alive.

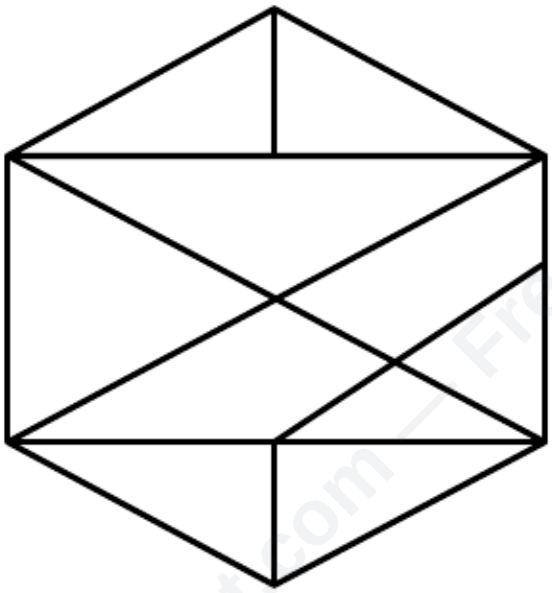
D. From one end to the other cries of the vendors rent the air.

(a) DACB
(b) CBAD
(c) ABDC
(d) CADB

GENERAL INTELLIGENCE

Q26. How many triangles are present in the following figure?

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(a) 14
(b) 13
(c) 11
(d) 16

Q27. Which two signs and two numbers should be interchanged in the following equation to make it correct?
8 + 15 - 20 × 10 ÷ 5 = 47
(a) × and -, 15 and 20
(b) • and ÷, 10 and 20
(c) × and ÷, 5 and 8
(d) • and -, 8 and 15

Q28. What was the day of the week on 26 January 2012?
(a) Thursday
(b) Tuesday
(c) Saturday
(d) Sunday

Q29. 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.
Ostrich : Eagle
(a) Swan : Lion
(b) Cow : Elephant
(c) Whale : Kite
(d) Hen : Goat

Q30. 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) 13
(b) 23
(c) 17
(d) 51

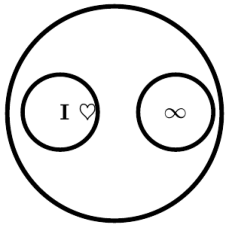
Q31. 'RETINA' is related to 'EYE' in the same way as 'HYDROGEN' is related to '_____'.
(a) EAR
(b) LEGS
(c) IODINE

(d) WATER

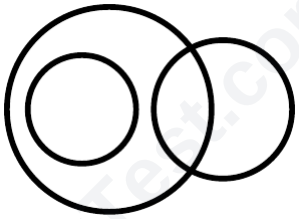
Q32. Select the Venn diagram that best illustrates the relationship between the following classes.

Ants, Butterflies, Insects

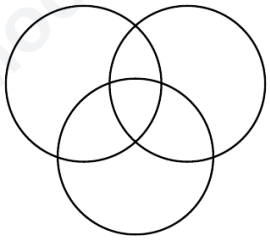
(a)



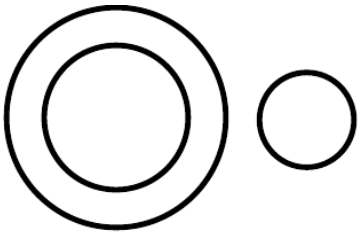
(b)



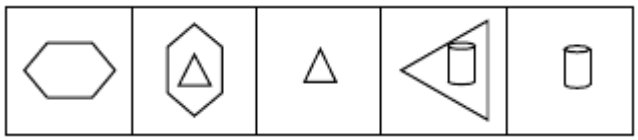
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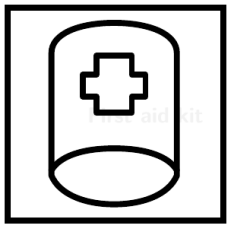
(d)



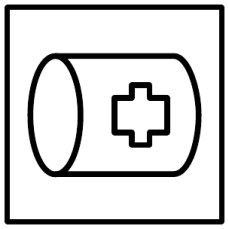
Q33. Select the figure that will come next in the following figure series.



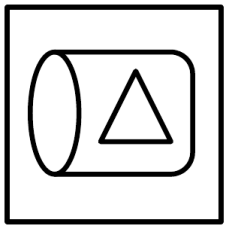
(a)



(b)



(c)



(d)



Q34. Select the option that is related to the third letter-pair in the same way as the second letter-pair is related to the first letter-pair.

CH : FP : : GK : ?

(a) NU
(b) JL
(c) JS
(d) MP

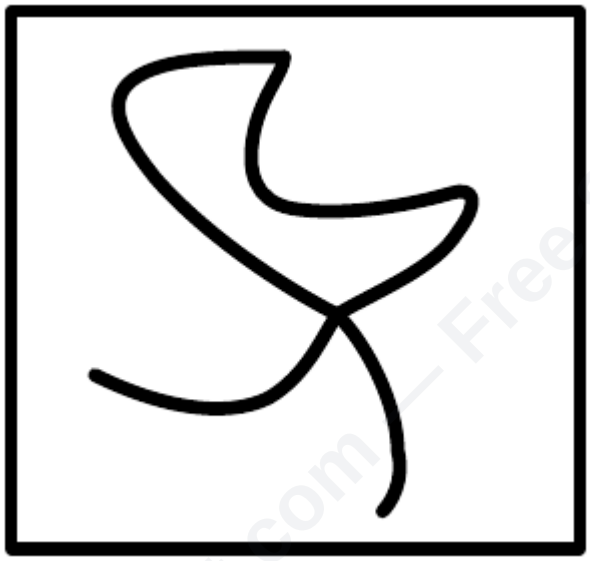
Q35. Which letter-pair will replace the question mark (?) in the following series?

EI, GK, ?, KO, MQ

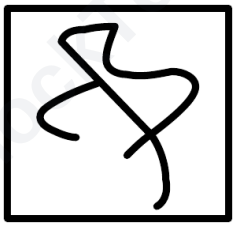
(a) JK
(b) IM
(c) KM
(d) IL

Q36. Select the option in which the given (X) is embedded.

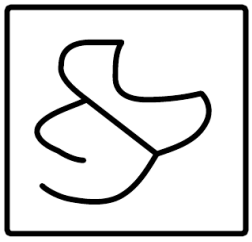
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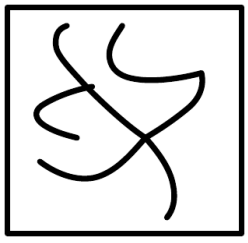
(a)



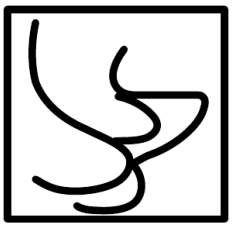
(b)



(c)

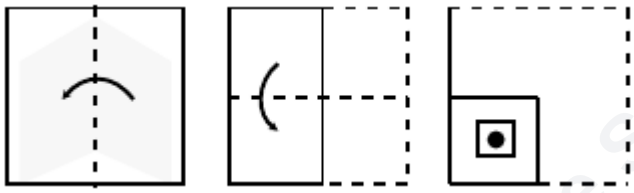


(d)

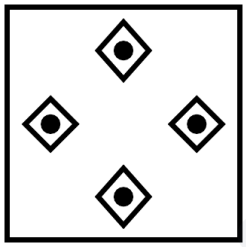


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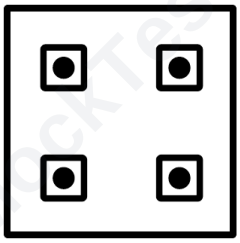
Q37. A paper is folded and cut as shown in the following figures (X, Y and Z). Select the option that depicts how this paper will appear when unfolded?



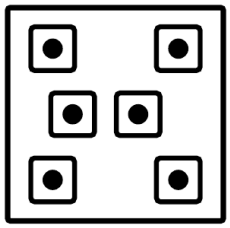
(a)



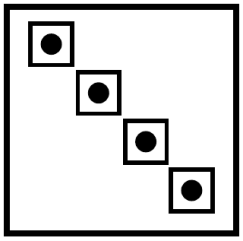
(b)



(c)



(d)



Q38. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(25, 49, 37)

(a) (16, 64, 78)
(b) (6, 4, 5)
(c) (12, 14, 8)
(d) (26, 64, 120)

Q39. Three of the following four words are alike in a certain way and one is different.

Pick the odd word out.

(a) Eagle
(b) Kiwi
(c) Goose

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(d) Vulture

Q40. Two statements are given, followed by four conclusions numbered I, II III and IV. 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.

Statement:

No carrot is roof.

All roofs are potatoes.

Conclusions:

I. No carrot is potatoes.

II. No potatoes is carrot.

III. Some potatoes are roofs.

IV. All the potatoes are roofs.

(a) Only conclusion (III) follow
(b) Conclusion (I) and (IV) follows
(c) Conclusion (I) and (II) follows
(d) Only conclusion (I) follow

Q41. Which number will replace the question mark (?) in the following series?

7, 9, 12, 17, 24, 35, ?

(a) 47
(b) 48
(c) 52
(d) 45

Q42. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(16, 23, 32)

(a) (10, 17, 28)
(b) (11, 18, 27)
(c) (6, 14, 25)
(d) (10, 23, 46)

Q43. Mala and Lali are sisters. Mahesh is father of Dev. Gargi is mother of Mala and Dev. How Mahesh's father is related to Lali?

(a) Uncle
(b) Father
(c) Paternal Grand Father
(d) Maternal Grand Father

Q44. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

(a) BDFH
(b) IKMO
(c) PRTW
(d) CEGI

Q45. In a code language, KNIFE is written as MPGHG. How will SWORD be written as in that language?

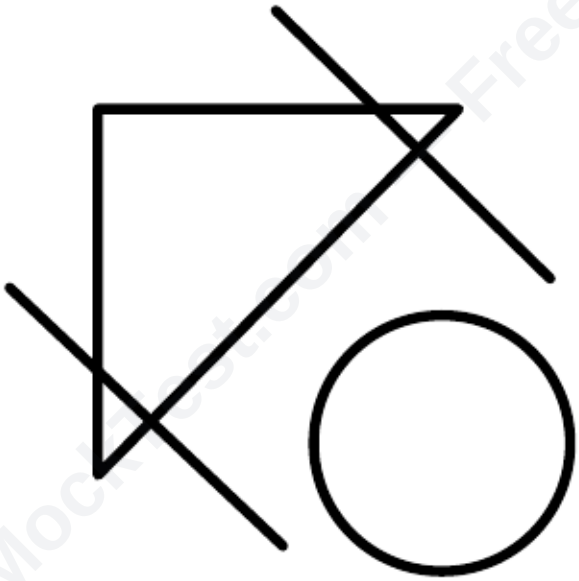
(a) UYMTE
(b) UYMTF
(c) VYMTF
(d) UYQTF

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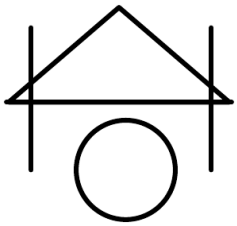
Q46. If SAW is coded as 8264 and CUDDLE is coded as 24623231522, then how will MEDULLA be coded as?

(a) 1422236151625
(b) 1422236161526
(c) 1422237151525
(d) 1422236151526

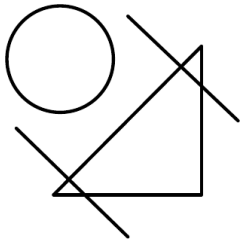
Q47. Select the correct mirror image of the given figure when the mirror is placed to the left of the figure.



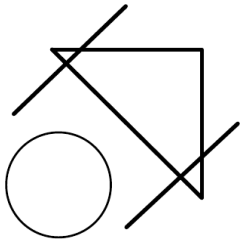
(a)



(b)

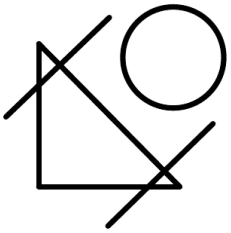


(c)



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(d)



Q48. Arrange the following words in the sequence as they appear in English dictionary order.

1. Master
2. Marvel
3. Market
4. Marker
5. Marble
6. Margin

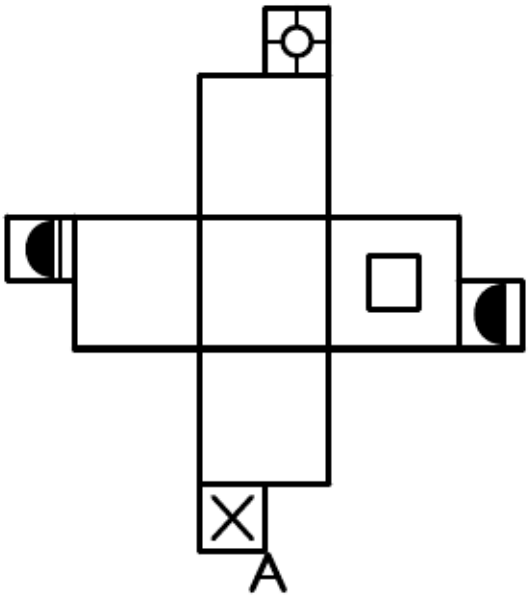
(a) 6, 5, 4, 2, 1, 3
(b) 5, 4, 6, 3, 2, 1
(c) 5, 6, 4, 3, 2, 1
(d) 5, 6, 4, 3, 1, 2

Q49. 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.

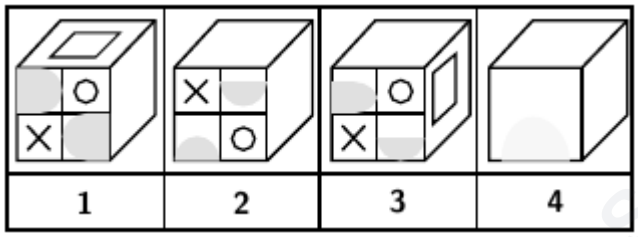
7, 13

(a) 17, 21
(b) 17, 25
(c) 15, 19
(d) 23, 31

Q50. A paper sheet is made into the following pattern (A). Find the cube that will best represent after folding the paper (A).



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(a) 2, 3 and 4 only
(b) 2 and 3 only
(c) 1, 3 and 4 only
(d) 1, 2 and 3 only

QUANTITATIVE APTITUDE

Q51. The average of a series of 21 numbers is equal to 43. The average of the first eleven of them is 33. The average of the last eleven numbers is 53. The eleventh number of the series is:

(a) 46
(b) 33
(c) 47
(d) 43

Q52. What is the simplified value of:

fracsin²31^o + sin²59^o sec²35^o - cot²55^o + tan29^o~cot61^o - cosec²61^o?

(a) 1
(b) 0
(c) 12
(d) -1

Q53. If (1.25) (1 – 6.4 × 10^(-5)) = 1.2496 + α, then α is equal to:

(a) 0.00016
(b) 0.00032
(c) 0.0016
(d) 0.0032

Q54. ABCD is a rhombus with each side being equal to 8 cm. If BD = 10 cm, AC = 2√x cm, what is the value of x + 1?

(a) 35
(b) 40
(c) 23
(d) 32

Q55. The simplified value of 3/4 of4/15 × 112/3 - (31/2 - 21/6) is:

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

Q56. What is the ratio between the fourth proportional of 3, 4, 9 and the mean proportional between 2 and 98?

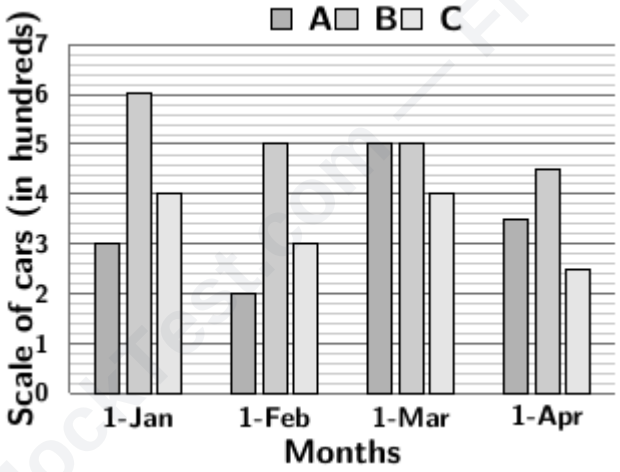
(a) 7 : 8
(b) 6 : 7
(c) 7 : 6
(d) 8 : 7

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Q57. Two chords, AB and CD of circle meet at a point O, outside the circle. It is given that AB = 7 cm, CD = 4 cm, OB = 5 cm. What is the length of OD?

(a) 5 cm
(b) 6 cm
(c) 7.5 cm
(d) 10 cm

Q58. The given Bar Graph presents the sale of a particular brand of car by three showrooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016



If the cars sold by A and B are all found to be in perfect order, but the cars sold by C were found to be defective to the extent of 15% 10%, 8% and 6%, respectively in Jan, Feb, Mar and Apr 2016. Then what is the ratio of non-defective cars sold by C to that of all cars sold by A and B during Jan-Mar 2016?

(a) 177 : 1400
(b) 489 : 1300
(c) 255 : 1348
(d) 384 : 1385

Q59. A square has been inscribed in a circle. What is the ratio of the length of a side of the square to the radius of the circle?

(a) 3 : 2
(b) 2 : 2
(c) √2 : 1
(d) 1 : 2

Q60. An inlet pipe can fill a tank in 10 hours and an outlet pipe can empty the completely filled tank in 20 hours. Both the pipes are opened at 6.30 a.m. When will the tank get filled?

(a) 12.00 midnight
(b) 2 a.m. next day
(c) 2.30 a.m. next day
(d) 1 a.m. next day

Q61. A man loses 20% by selling an article for Rs. 96. For what amount should he have sold the article to gain 15%?

(a) Rs. 138
(b) Rs. 140
(c) Rs. 120
(d) Rs. 115

Q62. The volume of a right circular cone is equal to that of a sphere, whose radius is half the radius of the base of the cone. What is the ratio of the radius of the base to the height of the cone?

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

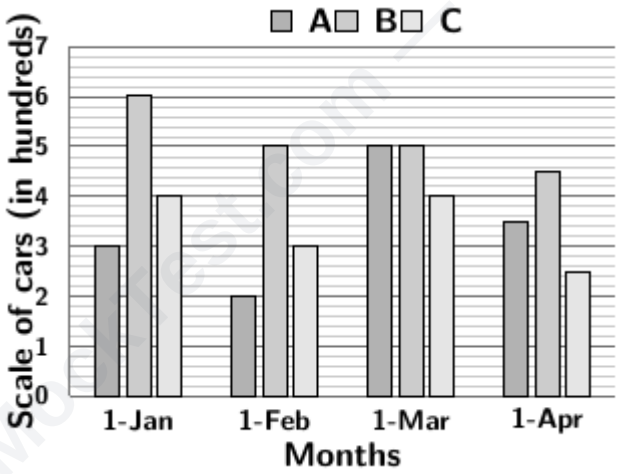
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(c) 1 : 4
(d) 2 : 1

Q63. Given, a + 1/a = 2, what is the value of a^(118) + 1/a^(117)?

(a) 1
(b) 118
(c) 2
(d) 117

Q64. The given Bar Graph presents the sale of a particular brand of car by three showrooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016



What is the ratio of number of cars sold by A in Jan-Feb, 2016 to that of cars sold by B during Mar-Apr, 2016?

(a) 12 : 19
(b) 5 : 8
(c) 8 : 17
(d) 10 : 19

Q65. For a number greater than one, the difference between itself and its reciprocal is 2% of the sum of itself and its reciprocal. By how much percentage (nearest to an integer) is the square of the number less than its cube?

(a) 3.3
(b) 8.1
(c) 1.22
(d) 1.88

Q66. If (a + b + 4)(ab + 4(a + b)) - 4ab = 0, and a ≠ -4, b ≠ -4, then, 1/(a + b + 4)^(117) - 2^(-234) is equal to:

(a) 0
(b) 14117
(c) -12234
(d) 12117

Q67. For all prop. to _i(i = 1, 2, 3, ...20) where 0° ≤ prop. to i ≤ 90°, it is given that, cos prop. to 1 + cos prop. to 2 + coss prop. to 3 + ...cos prop. to 20 = 20. What is the value of (prop. to 1 + prop. to 2 + prop. to 3 + ... + prop. to 20)?

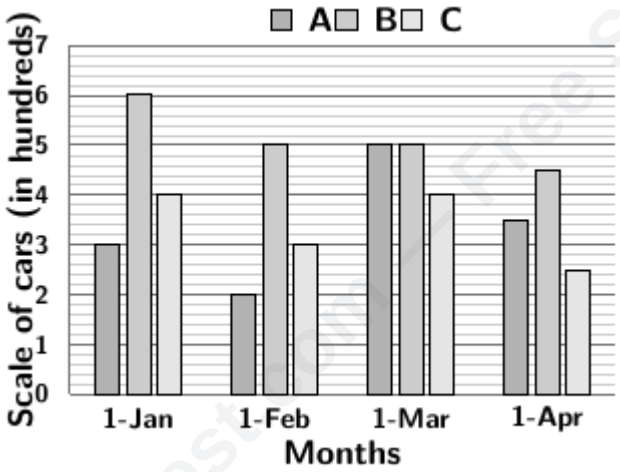
(a) 1800°
(b) 20°
(c) 900°
(d) 0°

Q68. The difference between the compound interest and the simple interest on a sum at 10% p.a. for three years is Rs. 155. The sum (in Rs.) is:

(a) 5,500
(b) 6,600

(c) 5,000
(d) 6,000

Q69. The given Bar Graph presents the sale of a particular brand of car by three showrooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016



If the cars sold by A and B are all found to be in perfect order, but the cars sold by C were found to be defective to the extent of 15%, 10%, 8% and 6%, respectively in Jan, Feb, Mar and Apr 2016. What is the percentage of defective cars sold by all showrooms during Apr 2016?

(a) 13/7
(b) 44/9
(c) 24/9
(d) 72/3

Q70. The 10-digit number 79x00001y6 is exactly divisible by 88. What is the value of (x + y)?

(a) 7
(b) 5
(c) 6
(d) 9

Q71. A train goes from P to Q with a speed u km/h, then from Q to R (QR = 2PQ) with a speed 3u km/h, and returns from R to P With a speed u/2 km/h. What is the average speed (in km/h) of the train for the entire journey starting from P and back to P?

(a) 18u/23
(b) 3u/2
(c) 4u/3
(d) 16u/23

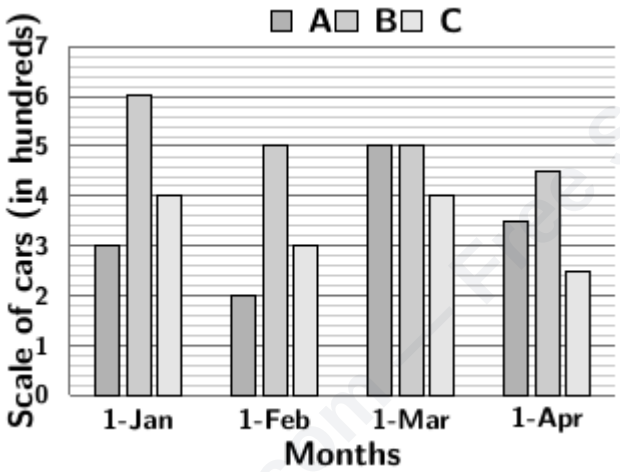
Q72. A shopkeeper decides to raise the marked price of an article by 10%, How much discount should he allow so as to be able to sell the article at the original marked price?

(a) 19/2%
(b) 73/9%
(c) 100/11%
(d) 10%

Q73. For $0° < \theta < 90°$, $\tan\theta + \cot\theta = 2$. θ is equal to:

(a) 0°
(b) 30°
(c) 60°
(d) 45°

Q74. The given Bar Graph presents the sale of a particular brand of car by three showrooms, A, B and C (in multiples of 100) during the months Jan, Feb, Mar and Apr, 2016



What was the average number of cars sold by A during Feb-Apr in year 2016?

(a) 250
(b) 375
(c) 300
(d) 350

Q75. The perimeter of ΔABC is 24 cm and its side, BC = 9 cm. AD is the bisector of angle BAC, while I is the incentre. AI : ID is equal to:

(a) 5 : 2
(b) 7 : 5
(c) 3 : 2
(d) 5 : 3

GENERAL AWARENESS

Q76. An island between India and Sri Lanka is _____.

(a) Kachchatheevu
(b) Divar
(c) Chorao
(d) Ilha grand

Q77. The term 'Hellenistic' is related to which of the following countries?

(a) China
(b) Greece
(c) India
(d) Peru

Q78. Who among the following is famous for Classical Carnatic Music?

(a) Pandit Ravi Shankar
(b) Pandit Shivkumar Sharma
(c) Balamuralikrishna
(d) Pandit Kumar Gandharva

Q79. The Gandikota canyon, also known as the grand canyon of India is located in _____.

(a) Karnataka
(b) Kerala
(c) West Bengal
(d) Andhra Pradesh

Q80. The Pacific Vanguard maritime exercise was held in _____ May 2019.

(a) Japan
(b) China
(c) Australia
(d) Guam

Q81. The famous Madhubani artist who won the Bihar Ratna in 1984 is _____.

(a) Mahasundari Devi
(b) Sita Devi
(c) Shashi Kala Devi
(d) Ganga Devi

Q82. Central Potato Research Institute is located in _____.

(a) Hyderabad
(b) Nagpur
(c) Shimla
(d) Kolkata

Q83. An example of an input device is _____.

(a) Soundcard
(b) Projector
(c) Webcam
(d) Headphones

Q84. The Indian ship that will take part in the 8th Indo – Myanmar Coordinated Patrol is _____

(a) INS Vikrant
(b) INS Car Nicobar
(c) INS Sukanya
(d) INS Saryu

Q85. Which of the following is not a natural greenhouse gas?

(a) Methane
(b) Nitrogen trifluoride
(c) Carbon dioxide
(d) Water vapour

Q86. Hampi, the ancient capital of Vijayanagara is located in _____.

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

Q87. In the field of Information and Technology what is the full form of ASCII?

(a) American Standard Communication for Information Interchange
(b) American Standard Code for Information Interchange
(c) American Standard Code for International Interchange
(d) American Standard Code for Infrastructure Interchange

Q88. Who among the following was NOT a governor of Reserve Bank of India?

(a) Manmohan Singh
(b) D. Subbarao
(c) M Narasimham
(d) M S Gill

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Q89. The team that won the first two World Cup cricket tournaments was _____.

(a) Australia
(b) England
(c) West Indies
(d) India

Q90. The famous 'Tangaliya shawl' is associated to which state of India?

(a) Gujarat
(b) Punjab
(c) Uttar Pradesh
(d) Uttarakhand

Q91. India's PU Chitra won gold medal in women's 1500 meter at Folksam Grand Prix 2019 held in _____.

(a) France
(b) Russia
(c) Sweden
(d) Indonesia

Q92. A biochemical compound is any _____.

(a) carbon-based compound found in living things
(b) hydrogen-based compound found in living things
(c) mineral-based compound found in living things
(d) sulfur-based compound found in living things

Q93. The right pulmonary artery is _____.

(a) wider than the left
(b) of same size as the left
(c) longer than the left
(d) shorter than the left

Q94. The 2018 BWF World Tour Finals men's singles was won by _____.

(a) Son Wan Ho
(b) Sameer Verma
(c) Kento Momoto
(d) Shi Yuqi

Q95. Which of the following is the major state taxes in India?

(a) Income tax
(b) Stamp duty and registration
(c) Customs duty
(d) Corporation Tax

Q96. In the context of banking system in India what is the fullform of RTGS?

(a) Real Time Gross Settlement
(b) Real Time Gain Settlement
(c) Random Time Gain Settlement
(d) Random Time Gross Settlement

Q97. In June 2019, which Ministry was created by merging the Ministry of Water Resources, River Development and Ganga Rejuvenation and the Ministry of Drinking Water and Sanitation?

(a) Jal Sangrah
(b) Jal Nidhi
(c) Jal Jeevan
(d) Jal Shakti

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Q98. The Goldman Prize which was instituted in 1989 by Richard and Rhoda Goldman is given in the field of _____.

(a) Environment
(b) Education
(c) Painting
(d) Music

Q99. Which of the following national parks is situated in Uttar Pradesh?

(a) Van Vihar
(b) Hemis
(c) Dudhwa
(d) Dachigam

Q100. Bhagat Singh, Sukhdev and Rajguru were executed on _____.

(a) 23 March, 1932
(b) 23 February, 1930
(c) 23 March, 1931
(d) 28 January, 1933

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) Mahesh told the interviewer that he had been in charge of the production unit at his previous office.

The correct answer is option 2) i.e. Mahesh told the interviewer that he had been in charge of the production unit at his previous office.

• While changing direct speech into indirect speech said to is changed into told.

• And 'I' is referred to Mahesh, hence, 'I' will be changed into 'he'.

• The tense of the reported speech (here: Simple past) would undergo a backshift (get changed into Past perfect) i.e. 'was/were' would be changed into 'had been' and V2 would be changed into V3.

• All these rules are followed in option 2, hence, it will be the correct answer.

NOTE: When a sentence is converted from Direct speech into Indirect speech:

• If the 'reporting verb' is in 'Past tense', the 'Reported speech' would undergo a backshift of tense.

• Modal verbs (Will, may, can) would take their past forms (would, might, could).

• Pronouns would change according to the subject of reporting verb.

• "said to" will get converted to "told", "asked", "commanded", requested" etc.depending on the tone of the narrator.

Q2. Answer: (a) amicable

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

• Virulent: bitterly hostile.

• Amicable: characterized by friendliness and absence of discord. Hence, it is the most appropriate antonym of the given word.

• Dangerous: likely to cause harm or injury.
• Lethal: very harmful or destructive.
• Powerful: having great power or strength.

Q3. Answer: (d) I decided to make a donation to help

The correct answer is option 4) i.e. I decided to make a donation to help.
• 'has' cannot be used with 'I', so the given sentence needs improvement.
• The past indefinite tense is most appropriate to convey the meaning of the given sentence. Hence, 'I decided' will be used.
• 'to+infinitive' is the correct choice to used here, hence, 'to make' will be used in the given sentence.

Q4. Answer: (d) depend

The correct answer is option 4) i.e. depend.
• The given sentence talks about the interest rate cut will be determined by monsoon.
• the preposition after the blank is 'on' and from the given options there is only one word i.e. depend, which takes preposition 'on' and conveys the meaning of the sentence properly.
• Hence, the most appropriate word to fill in the blank is 'depend'.

Q5. Answer: (a) express very briefly

The correct answer is option 1) i.e. express very briefly.
• In a nutshell: in the fewest possible words.
• Option 1) means the same, hence, it will be the correct answer.

Q6. Answer: (d) one about whom it is easy to know everything

The correct answer is one about whom it is easy to know everything.
Key Points
• Be an open book: a person or thing that is easy to understand or about which everything is known.
• Example: Her mind was an open book to him

Q7. Answer: (c) BCDA

The correct answer is option 3) i.e. BCDA.
• The only independent sentence from the given sentences is 'B', hence it will be the first sentence.
• In the sentence 'C' the pronoun 'he' has been used for 'neolithic man', hence, it will follow the sentence 'B'.
• This sequence i.e. 'BC' is given in only option 3), hence, it will be the correct answer.

Q8. Answer: (b) draw

The solution is in Hindi. Read it online.

Q9. Answer: (d) disguise

The solution is in Hindi. Read it online.

Q10. Answer: (d) remunerative

The correct answer is option 4) i.e. remunerative.
• remunerative: financially rewarding.
• speculative: engaged in, expressing, or based on conjecture rather than knowledge.
• substantive: having a separate and independent existence.
• tentative: not certain or fixed; provisional.

Q11. Answer: (d) Several crops have been damaged by the cyclone.

The correct answer is option 4) i.e. Several crops have been damaged by the cyclone.
• The given sentence is in the present perfect tense, hence, while converting it into passive voice 'has/have been' will be used.
• The subject while making the passive voice will be 'several crops' which is a plural subject.
• Hence, 'have been' will be used.
• In passive voice, v3 is used.
• All these rules are followed in option 4), hence, it is the correct answer.

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Q12. Answer: (c) oppurtunity

The correct answer is option 3) i.e. oppurtunity.

• The correct spelling is opportunity which means a time or set of circumstances that makes it possible to do something.

• oppression: prolonged cruel or unjust treatment or exercise of authority.

• opposition: resistance or dissent, expressed in action or argument.

• opulence: great wealth or luxuriousness.

Q13. Answer: (b) Torrent

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

• torrent: a strong and fast-moving stream of water or other liquid.

• trickle: a small flow of liquid.

• creek: a stream or minor tributary of a river.

• rivulet: a small stream of water or another liquid.

Q14. Answer: (c) and

The correct answer is option 3) i.e. and.

• The given sentence gives reasons for receding of groundwater table and two nouns are joined with the help of conjunction 'and' to talk about two things.

• Hence, the most appropriate word to fill in the blank 1 is 'and'.

Q15. Answer: (c) are

The correct answer is option 3) i.e. are.

• In the given blank we need a helping verb and the subject in the given sentence is plural i.e. deficit rainfall and indiscriminate extraction, hence, a plural helping verb will be used in the given sentence.

• So, 'are' is the most appropriate word to be used in the given blank.

Q16. Answer: (d) the

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

• In the given sentence we need an article for the word 'situation'.

• The given sentence talks about a specific situation, hence, definite article 'the' will be used in the given blank.

Q17. Answer: (b) water

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

• The given passage talks about water deficit, hence, water is the most appropriate word to be used in the given blank.

• 'water harvesting and conservation' is the most appropriate phrase to be used in the given passage.

Q18. Answer: (a) also

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

• In the given sentence we need an adverb to qualify the verb 'learn'.

• Hence, 'also' is the correct word from the given options to be used in the blank 5.

Q19. Answer: (a) Plump

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

• gaunt: (of a person) lean and haggard.

• plump: having a full rounded shape, fat, chubby.

• bent: sharply curved or having an angle.

• lean: slim, thin.

Q20. Answer: (c) with respect to

The correct answer is option 3) i.e. with respect to.

• The correct phrase to be used in the given sentence is 'with respect to' which means with reference to.

• In the given sentence a reference is being made to 'terror and security', hence, 'with respect to' is the most appropriate phrase to be used in the given sentence.

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Q21. Answer: (c) paucity

• The correct answer is Option 3 'paucity' which means 'fewness in number/ dearth'.

• The sentence means that after knowing that the sacred Buddhist texts in the Chinese language are decreasing in number they decided to travel to India in search of them. Other words do not fit in the given context.

• The meaning of the given words:

• Preference: The selection of something or someone over others.

• Persistence: The property of being persistent (refusing to give up).

• Parity: Equality

Q22. Answer: (b) a best finish

• The correct answer is Option 2.

• The phrase 'a best finish' should be replaced by 'the best finishing' to make it grammatically correct. The noun 'finish' means 'an end of something' and 'finishing' means 'the act of completing something'. Article 'the' should be used instead of 'a' because the superlative degrees are always followed by the definite article 'the'.

• Therefore, the correct sentence is 'We will use enamel paint on this wall because it gives the best finishing'.

Q23. Answer: (c) he do not even

• The correct answer is Option 3.

• The given sentence is in the past continuous tense so the verb 'do' should be changed to its simple past tense 'did'.

• Therefore, the correct sentence is 'The little boy was so busy playing with his toy train that he did not even look up at us.'

Q24. Answer: (b) diminutive

• The correct answer is Option 2.

• The meaning of given words:

• Miniature: a model of reduced scale.

• Colossal: Extremely large or on a great scale.

• Diminutive: very small.

• Gigantic: Very large.

• Therefore, the word 'diminutive' gives the similar meaning as the given word.

Q25. Answer: (d) CADB

• The correct answer is Option 4.

• The answer begins with sentence C as it means the street got suddenly busy with activity of many living beings.

• 'A' will be the second sentence as it is saying how the street got busy.

• Sentence D & B make the paired sentences as sentence D is saying the street was filled with screams of vendors. Sentence B continued saying that hearing the screams of the vendors people started coming out with bags.

• Therefore, the correct sequence is given in Option 4 'CADB'.

Q26. Answer: (b) 13

The triangles are:

DEH, KEH, KDE, ADG, DGK, ADK, AJF, BJF, ABF, BIJ, BIC, BCJ, ABK.

Hence, there are 13 triangles in the given figure.

Q27. Answer: (d) • and -, 8 and 15

8 + 15 - 20 × 10 ÷ 5 = 47

Interchanging + and -, 8 and 15

15 - 8 + 20 × 10 ÷ 5 (according to BODMAS rule)

= 15 - 8 + 20 × 2

= 15 – 8 + 40

= 55 - 8

= 47

Hence, the correct answer is + and -, 8 and 15.

Q28. Answer: (a) Thursday

Number of odd days till 2011 = no. of odd days in 2000 years (century leap year) + no. of odd days from 2001 to 2011 = 0 odd days + (11 odd days + 2 odd days (as there are 2 leap years)) = remainder of 13 ÷ 7 = 6

Number of odd days up to 26 January 2012 = remainder of 26 ÷ 7 = 5

Total odd days = 5 + 6 = 11 = remainder of 11 ÷ 7 = 4.

Day	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Code	0	1	2	3	4	5	6

Hence, the day of the week on 26 January 2012 is Thursday.

Q29. Answer: (b) Cow : Elephant

Ostrich and eagle are birds.

Similarly,

Cow and elephant are animals

Hence, 'Cow : Elephant' is the correct answer.

Q30. Answer: (d) 51

The pattern followed here is:

13, 23, and 17 are prime numbers.

But 51 = 3 × 17. Therefore, 51 is a composite number.

Hence, 51 is the correct answer.

Q31. Answer: (d) WATER

RETINA is a part of the membranes of EYE.

Similarly, HYDROGEN is a part of the molecule of WATER.

Hence, WATER is the correct answer.

Q32. Answer: (a) [figure]

Ants and Butterflies are distinct insects.

Hence, option 1 is the correct answer.

Q33. Answer: (b) [figure]

The first and the third figures are combined to obtain the second figure after rotating the first figure.

Similarly, the third and fifth figures are combined to obtain the fourth figure after rotating the third figure.

Each figure is different from the rest.

In the next figure, the fifth figure will be combined with a new figure after rotating the fifth one.

Therefore, options 1 and 4 get eliminated.

The embedded figure in option 3 is a triangle which is not a new figure. Therefore, option 3 gets eliminated.

Hence, the figure in option 2 is the correct answer.

Q34. Answer: (c) JS

The pattern followed here is:

Similarly,

Hence, JS is related to GK

Q35. Answer: (b) IM

The pattern followed here is:

Hence, the correct answer is IM.

Q36. Answer: (c) [figure]

The question figure is embedded in the following figure:

Hence, the figure in option 3 is the correct answer.

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Q37. Answer: (b) [figure]

When unfolded, the paper will look like the following figure:

Hence, the correct answer is option 2.

Q38. Answer: (b) (6, 4, 5)

The pattern followed here is:

(25, 49, 37) → 25 + 49 = 74 and 74 ÷ 2 = 37

Similarly,

(6, 4, 5) → 6 + 4 = 10 and 10 ÷ 2 = 5

Hence, the correct answer is (6, 4, 5).

Q39. Answer: (b) Kiwi

Eagle, Goose, Vulture are Birds which can fly.

Kiwi is a flightless bird.

Hence, Kiwi is the odd one.

Q40. Answer: (a) Only conclusion (III) follow

Explanation:

I. No carrot is potatoes - False (it is possible but not definite)

II. No potatoes is carrot. – False (it is possible but not definite)

III. Some potatoes are roofs. – True (all roofs are potatoes)

IV. All the potatoes are roofs. – False (it is possible but not definite)

Hence, only conclusion III follows.

Q41. Answer: (b) 48

The pattern followed here is:

7 + 2 = 9

9 + 3 = 12

12 + 5 = 17

17 + 7 = 24

24 + 11 = 35

35 + 13 = 48

Here 2, 3, 5, 7, 11, and 13 are consecutive prime numbers.

Hence, 48 is the correct answer.

Q42. Answer: (b) (11, 18, 27)

The pattern followed here is:

(16, 23, 32) → 16 + 7 = 23; 23 + 9 = 32

Similarly,

(11, 18, 27) → 11 + 7 = 18; 18 + 9 = 27

Hence, (11, 18, 27) is the correct answer.

Q43. Answer: (c) Paternal Grand Father

Using the below table of symbols, we can draw the family tree:

Hence, Mahesh’s father is Paternal Grand Father of Lali.

Q44. Answer: (c) PRTW

The pattern followed here is:

Hence, the correct answer is PRTW.

Q45. Answer: (b) UYMTF

The pattern followed here is:

Similarly,

Hence, the correct answer is UYMTF.

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Q46. Answer: (d) 1422236151526

SAW:

The positional value of letters

S = 19

A = 1

W = 23

Then, reverse positional value will be

27 - 19 = 8

27 - 1 = 26

27 - 23 = 4

After combining the code is 8264

CUDDLE:

C = 3 and 27 -3 = 24

U = 21 and 27 - 21 = 6

D = 4 and 27 - 4 = 23

D = 4 and 27 - 4 = 23

L = 12 and 27 - 12 = 15

E = 5 and 27 - 5 = 22

After combining the codes, we get CUDDLE = 24623231522

Similarly,

MEDULLA:

M = 13 and 27 -13 =14

E = 5 and 27 -5 = 22

D = 4 and 27 – 4 = 23

U = 21 and 27 – 21 = 6

L = 12 and 27 – 12 = 15

L = 12 and 27 – 12 = 15

A = 1 = and 27 – 1 = 26

After combining we get MEDULLA = 1422236151526.

Hence, the correct answer is 1422236151526.

Q47. Answer: (c) [figure]

The mirror image of the question figure is as follows:

Hence, the correct answer is option 3.

Q48. Answer: (c) 5, 6, 4, 3, 2, 1

The correct sequence as per English dictionary is

5. Marble

6. Margin

4. Marker

3. Market

2. Marvel

1. Master

Hence, the correct answer is 5, 6, 4, 3, 2, 1.

Q49. Answer: (d) 23, 31

The pattern followed here is:

7 and 13 are prime numbers.

Similarly,

23 and 31 are prime numbers.

Hence, 23, 31 is the correct answer.

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Q50. Answer: (a) 2, 3 and 4 only

The semicircle in figure 1 should be horizontal. Therefore, figure 1 cannot be formed and options 3 and 4 get eliminated.

As 4 plain faces are available, figure 4 can be formed.

Therefore, option 2 gets eliminated.

By rotating figure 1, we can obtain figures 2 and 3.

Hence, only figures 2, 3 and 4 can be formed.

Q51. Answer: (d) 43

Given:

Average of 21 numbers is = 43

Formula used:

Average = sum of terms/number of terms

Calculation:

Sum of 21 numbers = 43 × 21 = 903

Sum of first 11 numbers = 33 × 11 = 363

Sum of last 11 numbers = 53 × 11 = 583

The eleventh number = 363 + 583 – 903 = 43

Q52. Answer: (b) 0

fracsin²31 + sin²59sec²35 - cot²55 + tan29cot61 - cosec²61

Because sin(90 - θ) = cosθ

=> sin59 = sin(90 - 31) = cos31

Because sec(90 - θ) = cosecθ

=> sec 35 = sec(90 - 55) = cosec55

Because tan(90 - θ) = cotθ

=> tan29 = tan(90 - 61) = cot61

=> {(sin²31 + cos²31)/(cosec²55 – cot²55)} + cot²61 – cosec²61

Because sin²θ + cos²θ= 1

Because 1 + cot²θ= cosec²θ

=> (1/1) + (-1)

=> 1 – 1 = 0

Q53. Answer: (b) 0.00032

(1.25) (1 – 6.4 × 10^(-5)) = 1.2496 + α

=> 1.25 – 8 × 10^(-5) = 1.2496 + α

=> α = 0.0004 - 8 × 10^(-5)

=> α = (40 – 8)/10^5

=> α = 0.00032

Q54. Answer: (b) 40

ABCD is rhombus.

AC and BD are two diagonals of the ABCD rhombus.

All the angles, AOB, BOC, COD, AOD are 90°. (Rhombus's property)

Now,

For the right angle triangle BOA,

$OB^2 + OA^2 = AB^2$

And, (OB = 1/2× BD = 10/2 = 5 cm)

Mathematical form will be,

$(5)^2 + (OA)^2 = (8)^2$

$25 + (OA)^2 = 64$

$(OA)^2 = 64 - 25$

OA = √39 cm

Now, AC = 2 × OA = √39 × 2 = 2√39 cm

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As mentioned in the question,
=> 2√39 = 2√x
=> √x = √39
=> x = 39
So, the value of x + 1 is = 39 + 1 =40

Q55. Answer: (d) 1

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.
3/4 of4/15 × 112/3 - (31/2 - 21/6)
=> 3/15 × 35/3 – (7/2 – 13/6)
=> 7/3 – 4/3 = 1

Q56. Answer: (b) 6 : 7

¾ = 9/fourth proportional
=> fourth proportional = 12
Mean proportional = √2 × 98 = 14
Ratio between the fourth proportional of 3, 4, 9 and the mean proportional between 2 and 98 = 6 : 7

Q57. Answer: (b) 6 cm

By the theorem,
OA × OB = OD × OC
Let the length of OD be x.
=> 12 × 5 = x × (4 + x)
=> x^2 + 4x – 60 = 0
=> (x + 10) (x – 6) = 0
=> x = -10 or x = 6
We take the value of x = 6 cm
(Because Length is always positive)

Q58. Answer: (b) 489 : 1300

Cars sold by A during Jan-Mar 2016 = (3 + 2 + 5) × 100 = 1000
Cars sold by B during Jan-Mar 2016 = (6 + 5 + 5) × 100 = 1600
All cars sold by A and B during Jan-Mar 2016 = 1000 + 1600 = 2600
Non-defective cars sold by C during Jan-Mar 2016 = (4 × 85/100 + 3 × 90/100 + 4 × 92/100) × 100
=> 4 × 85 + 3 × 90 + 4 × 92 = 978
Ratio of non-defective cars sold by C to that of all cars sold by A and B during Jan-Mar 2016 = 978 : 2600
=> 489 : 1300

Q59. Answer: (c) √2 : 1

Let the diameter of the circle be D and side of the square be a.
=> The radius of the circle = r = D/2
=> The diagonal of the square = √2a
According to the given condition,
The diameter of the circle = Diagonal of the square
=> D = √2a
=> a = D/√2
Side of the square : Radius of the circle = (D/√2) : (D/2)
= √2 : 1

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Q60. Answer: (c) 2.30 a.m. next day

Given:

An inlet pipe can fill the tank in 10 hours

An outlet pipe can empty the tank in 20 hours

Both pipes are opened at 6.30 a.m

Formula used:

Work done = Time × Efficiency

Calculation:

Let the capacity of the tank be 20 units.

(Because LCM of 10 and 20 is 20)

Efficiency of inlet pipe = 20/10 = 2

Efficiency of outlet pipe = -20/20 = -1

1 hour work of both pipe = 2 – 1 = 1

Time taken to filled the tank = 20/1 = 20 hours

Time = 6.30 am + 20 = 2.30 a.m. next day

Therefore The tank will be filled by 2.30 a.m next day

Q61. Answer: (a) Rs. 138

Given:

Man loses 20% by selling an article for Rs. 96

Calculation:

Selling price = 100 – 20 = 80%

Cost price of article = 96 × 100/80 = Rs. 120

For profit 15% = 120 × 115/100 = Rs. 138

Q62. Answer: (d) 2 : 1

Let the radius of the right circular cone be r.

So,

Radius of sphere = r/2

According to the question,

The volume of a right circular cone = volume of a sphere

=> $1/3 \times \pi \times r1^2 \times h = 4/3 \times \pi \times r2^3$

=> $r^2 \times h = 4 \times r^3/8$

=> h/r = ½

Ratio of the radius of the base to the height of the cone = 2 : 1

Q63. Answer: (c) 2

a + 1/a = 2

Put the value of a = 1

=> 2 = 2

a^(118) + 1/a^(117) = 1 + 1 = 2

Shortcut Trick

If x + 1/x = 2 then x is always equal to 1.

Q64. Answer: (d) 10 : 19

Number of cars sold by A in Jan-Feb, 2016 = (3 + 2) × 100 = 500

Number of cars sold by B during Mar-Apr, 2016 = (5 + 4.5) × 100 = 950

Ratio of number of cars sold by A in Jan-Feb, 2016 to that of cars sold by B during Mar-Apr, 2016 = 500 : 950 = 10 : 19

Q65. Answer: (d) 1.88

Calculation:

Let the number be x.

=> (2/100) of [x + (1/x)]

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=> 0.02 × [x + (1/x)]

According to question,

$x – (1/x) = 0.02 × [x + (1/x)]$

=> $0.98x = 1.02/x$

=> $x^2 = 1.04$

=> x3 = 1.06

Required percentage = $[(x^3 - x^2) / x^3] × 100$

=> [(1.06 - 1.04)/1.06] × 100

=> (0.02/1.06) × 100

=> 1.88%

Therefore The required percentage is 1.88%

Q66. Answer: (a) 0

Here,

((a + b) + 4)(ab + 4(a + b)) - 4ab = 0

By Multiplying,

$(ab(a + b) + 4(a + b)^2 + 4ab + 16(a + b)) - 4ab. = 0$

Taking (a + b) common,

(a + b)(ab + 4(a + b) + 16) = 0

Therefore a + b = 0

Therefore a = -b

Putting value a = -b in the given equation,

1/(a + b + 4)117 - 2-234

=>1/(-b + b + 4)117 - 2-234

=>1/(4)117 - 2-234

=>1/(2)234 - 2-234

=>(2)^-234 - 2-234

=>0

Q67. Answer: (d) 0°

For all prop. to i (i = 1, 2, 3, ...20)

Given that, cos prop. to 1 + cos prop. to 2 + cos prop. to 3 + ...cos prop. to 20 = 20

Therefore For this to be true prop. to 1 = prop. to 2 = prop. to 3..... = prop. to 20 = 0°

Therefore The value of prop. to 1 + prop. to 2 + prop. to 3 + ... + prop. to 20 = 0 × 20 = 0°

Q68. Answer: (c) 5,000

Given:

The difference between compound interest and simple interest = 155

Rate of interest = 10%

Formula used:

Compound interest = $x(1 + r/100)^n – x$

Simple interest = x × r × t/100

Calculation:

According to question,

$x(1 + 10/100)^3 – x – x × 10 × 3/100 = 155$

=> $x(1331/1000 – 1 – 3/10) = 155$

=> x = 155000/31 = 5000

Therefore The sum is Rs. 5000

Q69. Answer: (a) 13/7

Defective cars sold by showroom C during Apr 2016 = 2.5 × 100 × 6/100 = 15

Cars sold by all showrooms during Apr 2016 = (3.5 + 4.5 + 2.5) × 100 = 1050

Required percentage = 15 × 100/1050 = 13/7

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Q70. Answer: (d) 9

Shortcut Trick

For divisibility by 88, the number must be divisible by 8 and 11.

Divisibility by 8: Last 3 digits 1y6 must be divisible by 8 => y = 3 or y = 7.

Divisibility by 11: Difference of sum of digits at odd and even places must be 0 or 11.

Sum (odd) = 6 + 1 + 0 + 0 + 9 = 22; Sum (even) = y + 0 + 0 + x + 7 = x + y + 7.

Difference = 22 − (x + y + 7) = 15 − (x + y). For this to be 0 or 11, x + y = 4 or x + y = 15.

Checking options: Only x + y = 9 is not directly matching, but let's re-verify the logic in the alternate method.

Therefore The correct answer is 9.

Alternate Method

Given: 10-digit number 79x00001y6 is divisible by 88.

Formula Used: Divisibility rules of 8 (last 3 digits) and 11 (alternating sum).

=> For divisibility by 8: 1y6 must be divisible by 8. Possible values for y are 3 (136 ÷ 8 = 17) or 7 (176 ÷ 8 = 22).

=> For divisibility by 11: (6 + 1 + 0 + 0 + 9) − (y + 0 + 0 + x + 7) = 0, 11, 22...

=> 16 − (x + y) = 0 or 11 or −11.

=> Case 1: 16 − (x + y) = 11 => x + y = 5.

=> Case 2: 16 − (x + y) = 0 => x + y = 16.

=> Case 3: 16 − (x + y) = 7 (if we consider the difference as 11k) => 16 − (x + y) = −11 is not possible for single digits.

=> Re-calculating: Sum odd = 6 + 1 + 0 + 0 + 9 = 16. Sum even = y + 0 + 0 + x + 7 = x + y + 7.

=> Difference = |16 − (x + y + 7)| = |9 − (x + y)|.

=> For divisibility by 11, |9 − (x + y)| must be 0 or 11.

=> 9 − (x + y) = 0 => x + y = 9.

Therefore The correct answer is 9.

Additional Information

Divisibility by 8

A number is divisible by 8 if its last three digits are divisible by 8 or are all zeros.

Divisibility by 11

A number is divisible by 11 if the difference between the sum of digits at odd positions and even positions is 0 or a multiple of 11.

Composite Divisibility

If a number is divisible by two co-prime numbers a and b, it is also divisible by their product (a × b).

Q71. Answer: (a) 18u/23

Let the distance between P to Q be d.

=> QR = 2d

=> RP = 3d

Average speed = total distance/total time

Total time = distance/speed

Time taken by train from P to Q = d/u

Time taken by train from Q to R = 2d/3u

Time taken by train from R to P = 3d/(u/2) = 6d/u

Total time = d/u + 2d/3u + 6d/u = 23d/3u

Total distance = d + 2d + 3d = 6d

Average speed = 6d/(23d/3u) = 18u/23

Q72. Answer: (c) 100/11%

Let the Cost price of an article be Rs. 100.

Marked price = 100 × 110/100 = 110

Required discount = Rs. 10

Required discount percentage = 10 × 100/110 = 100/11%

Q73. Answer: (d) 45°

Given:

$\tan\theta + \cot\theta = 2$

Calculation:

=> tanθ + 1/tanθ = 2

=> tanθ² + 1 = 2 tanθ

=> tanθ2 - 2 tanθ + 1 = 0

=> tanθ = 1 or tanθ = 1

For 0° < θ < 90°,

=> θ = 45°

Shortcut Trick If x + 1/x = 2; in that case x is always equal to 1.

Q74. Answer: (d) 350

Number of cars sold by A during Feb-Apr in year 2016 = (2 + 3.5 + 5) × 100 = 1050

Average number of cars sold by A during Feb-Apr, in year 2016 = 1050/3 = 350

Q75. Answer: (d) 5 : 3

Perimeter of triangle ABC = 24

AB + BC + AC = 24

=> AB + AC = 24 – 9 = 15

By the theorem,

AI : ID = (AB + AC) : BC

=> AI : ID = 15 : 9 = 5 : 3

Q76. Answer: (a) Kachchatheevu

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

• Kachchatheevu is a tiny island located at the northeast of Rameshwaram and south-west of Sri Lanka's Delft Island but administered by Sri Lanka.

• Kachchatheevu was part of the zamindari of Raja of Ramnad, but when zamindari was abolished it became a part of Madras Presidency.

• The 1974 Agreement while ceding Kachchatheevu to Sri Lanka, also protects traditional fishing rights enjoyed by Indian fishermen to fish in and around Kachchatheevu. These traditional rights were also given away when the maritime boundary agreement delimiting the Gulf of Mannar and the Bay of Bengal was signed in 1976.

Name of the Island	Description
Divar	Lies in the Mandovi river in Goa.
Chorao	Lies in the Mandovi river in Goa
Ilha grand	Located in Brazil

Q77. Answer: (b) Greece

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

• The term Hellenistic is related to Greece. The word “Hellenistic” means “to speak Greek or identify with the Greeks".

• In 336 B.C., Alexander the Great became the leader of the Greek kingdom of Macedonia.

• He spread Greek ideas and culture from the Eastern Mediterranean to Asia. Historians call this era the “Hellenistic period.”

• It lasted from the death of Alexander, when Roman troops conquered the last of the territories that the Macedonian king ruled.

Q78. Answer: (c) Balamuralikrishna

The correct answer is option 3) i.e. Balamuralikrishna.

• One of the most famous names associated with Classical Carnatic Music is that of Dr Mangalampalli Balamuralikrishna.

• He was also a composer, playback singer, poet, actor and multi-instrumentalist.

• He has won many awards including the prestigious Padma Shri, Padma Vibhushan, Sangeet Natak Akademi Award and National Film Awards.

Q79. Answer: (d) Andhra Pradesh

The correct answer is option 4) i.e. Andhra Pradesh.

• The Gandikota canyon, also known as the grand canyon of Gandikota is located in Kadapa District, Andhra Pradesh.

• This is also known as the “The Hidden Grand Canyon of India”.

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• It is a village on the right bank of River Pennar, near Jammalamadugu.

• The Gandikota fort built in the 13th century, ruled by powerful Telugu dynasty, the Pemmasani Dynasty is also located in Gandikota.

Q80. Answer: (d) Guam

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

• Pacific Vanguard maritime exercise was held in Guam an island in the United States in the North Pacific Ocean, the largest and southernmost of the Mariana Islands.

• In a first of its kind event, maritime forces from Australia, Japan, Republic of Korand the United States arrived in Guam, May 22, 2019, to conduct cooperative maritime training in exercise Pacific Vanguard.

• Pacific Vanguard brings together more than 3,000 Sailors from four Indo-Pacific nations to sharpen skills and strengthen practical cooperation at sea.

• The exercise takes place on Guam and around the Marianas Island Range Complex.

Q81. Answer: (b) Sita Devi

The correct answer is Sita Devi.

• Sita Devi was one of the most prominent early Mithila artists.

• She was among the first to transfer the traditional art form from the walls of the home to paper and canvas from the village of Jitwarpur, Bihar.

• She popularized the ‘Bharni’ style of Mithila painting, which emphasizes strong colours over fine lines.

• In 1975, she won a National Award.

• In 1981 she was awarded the Padma Shri, one of India’s highest civilian honours.

• In 1984 won the Bihar Ratna Samman.

• During her career, she exhibited her work in more than ten countries.

• Her art is present in the permanent collections of the Victoria & Albert Museum in London, the Los Angeles County Museum of Art, the Philadelphia Museum of Art, the Musée du Quai Branly in Paris, the Mithila Museum in Japan and many other international institutions.

• Madhubani painting is one of the many famous Indian art forms.

• As it is practised in the Mithila region of Bihar and Nepal, it is called Mithila or Madhubani art.

Q82. Answer: (c) Shimla

The correct answer is option 3) i.e. Shimla.

Key Points

• The Central Potato Research Institute established on 1 April 1935 in Shimla, Himachal Pradesh.

• It works under the Indian Council of Agricultural Research (ICAR).

• It was established to prevent diseases in potato and to produce various advanced varieties of potato.

Additional Information

Mysore	**Central Institute of Indian Languages**	**Karnataka**	**Founded in 1959**
Pune	Central Institute of Road Transport	Maharastra	Founded in 1967
Avikanagar	Central Sheep and Wool Research Institute	Rajasthan	Founded in 1962

Q83. Answer: (c) Webcam

The correct answer is option 3) i.e. Webcam.

Key Points

• A webcam is an input device because it captures a video image of the scene in front of it.

• It is either built into the computer or it is connected through a USB cable.

• Soundcard, Projector & Headphones are output devices.

Additional Information

Input Device: An input device is any hardware device that sends data to a computer, allowing you to interact with and control it.

Output Device: An output device is a piece of computer hardware that receives data or instructions from a computer.

Q84. Answer: (d) INS Saryu

• Indian Naval Ship Saryu undertook a coordinated patrol with Myanmar ships UMS King TabinShweHtee and UMS Inlay from 20 to 28 May 19.

• The patrolling effort will be augmented by Maritime Patrol Aircraft from both the navies.

• The ships will also undertake joint manoeuvres and drills during the sea phase of the coordinated patrol (CORPAT) prior 'Closing Ceremony' of the CORPAT onboard Myanmar Naval Ship.

• The 8th Indo-Myanmar coordinated patrol (IMCOR) was organised at Andaman and Nicobar Command.

Q85. Answer: (b) Nitrogen trifluoride

The correct answer is option 2) i.e. Nitrogen trifluoride.

• Gases that trap heat in the atmosphere are called greenhouse gases.

Carbon dioxide (CO2):

• It enters the atmosphere through burning fossil fuels solid waste, trees and other biological materials.

• Carbon dioxide is removed from the atmosphere (or "sequestered") when it is absorbed by plants as part of the biological carbon cycle.

Methane (CH4):

• Methane is emitted during the production and transport of coal, natural gas, and oil.

• Methane emissions also result from livestock and other agricultural practices and by the decay of organic waste in municipal solid waste landfills.

Nitrous oxide (N2O):

• Nitrous oxide is emitted during agricultural and industrial activities, combustion of fossil fuels and solid waste, as well as during treatment of wastewater.

Fluorinated gases:

• Hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride are synthetic, powerful greenhouse gases that are emitted from a variety of industrial processes.

Q86. Answer: (d) Karnataka

The correct answer is Karnataka.

Key Points

• Hampi was the ancient capital city of the Vijayanagara Kingdom.

• Two brothers, Harihara and Bukka, founded the Vijayanagara Empire in 1336.

• Vijayanagara or "city of victory" was the name of both a city and an empire.

• The empire was founded in the 14^(th)century. At its zenith, it stretched from the river Krishna in the north to the extreme south of the peninsula.

• In 1565 the city was sacked and subsequently deserted and the ruins at Hampi have designated a UNESCO World Heritage site in 1986.

Q87. Answer: (b) American Standard Code for Information Interchange

The correct answer is option 2) i.e. American Standard Code for Information Interchange.

• Alphanumeric codes, also called character codes, are binary codes used to represent alphanumeric data

• The American Standard-Code for Information Interchange (ASCII) and Extended Binary Coded Decimal Interchange Code (EBCDIC) codes are the two most widely used alphanumeric codes.

• ASCII Code is very popular and most widely used code in all personal computers and workstations.

• Most computers use ASCII codes to represent text, which makes it possible to transfer data from one computer to another.

Q88. Answer: (d) M S Gill

The correct answer is option 4) i.e. M S Gill.

• M S Gill served in the Indian Administrative Service (I.A.S.) from 1958-93 and was allotted to the Punjab Cadre of the I.A.S.

• The first member of the Indian Administrative Service to go to the Himalayan Mountaineering Institute, Darjeeling and trained with Tenzing Norgay in 1961.

• He played a major role in promoting Indian sports and took the Indian contingent to the Mexico Olympics in 1968.

• He was the Chief Election Commissioner of India from 1996-2001.

• In April 2004 he was elected to Rajya Sabha from Punjab and has also served as the Minister of Youth Affairs and Sports.

Name of the Governor	Description

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Manmohan Singh	He was the 15^(th)Governor of RBI
D.Subbarao	He was the 22^(nd) Governor of RBI
M. Narasimham	He was the 13^(th)Governor of RBI

Q89. Answer: (c) West Indies

The correct answer is option 3) i.e. West Indies.

• The team that won the first two World Cup cricket tournaments was West Indies.

• The 1975 Cricket World Cup was the first edition of the Cricket World Cup.

• In 1975, West Indies won the tournament by defeating Australia.

• The 1979 Cricket World Cup was the second edition of the Cricket World Cup and was won by the West Indies again.

• India has won the cricket world cup twice in the years 1983 and 2011.

• Pakistan and Sri Lanka have won one tournament each.

• Australia is the only team which has won the world cup highest times i.e. 5 times.

• England is the current champion of the cricket world cup which was held in 2019 in England.

Q90. Answer: (a) Gujarat

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

• Tangaliya a dotted woven textile of Surendranagar district, Saurashtra is found only in Gujarat, is usually worn as a wraparound skirt by the women of the Bharwad shepherd community.

• Tangaliya designs are used for preparing Shawl, Dupatta, Dress material and products of Home décor & accessories such as bedsheets, pillow covers etc.

• The patterns formed during weaving process to create design in dots for floral and geometrical motifs by using cotton or woolen yarn.

• The Tangaliya shawl which uses a unique weaving technique and was almost on the verge of extinction was given GI (Geographical Indications) recognition by the Central government in 2009.

Q91. Answer: (c) Sweden

The correct answer is option 3) i.e. Sweden.

• Folksam Grand Prix took place in Sollentuna, Sweden.

• P U Chitra won a gold medal in women's 1500m at Folksam Grand Prix 2019 beating a former Commonwealth Games champion Kenya's Mercy Cherono.

• P U Chitra also won the gold in the Asian Championships in Doha.

• Asian Games gold medallist Jinson Johnson won the silver in the men's 1500 metres.

Q92. Answer: (a) carbon-based compound found in living things

The correct answer is option 1) i.e. carbon-based compound found in living things.

• The compounds found in living things are known as biochemical compounds.

• Biochemical compounds make up the cells and other structures of organisms and carry out life processes.

• Carbon is the basis of all biochemical compounds, so carbon is essential to life on Earth.

• The reason is carbon's ability to form stable bonds with many elements, including itself. This property allows carbon to form a huge variety of very large and complex molecules.

• The vast number of biochemical compounds can be grouped into just four major classes: carbohydrates, lipids, proteins, and nucleic acids.

Q93. Answer: (c) longer than the left

The correct answer is option 3) i.e. longer than the left.

• The right pulmonary artery is the longer of the two.

• It passes transversely across the midline in the upper chest and passes below the aortic arch to enter the hilum of the right lung as part of its root.

• The left pulmonary artery is the shorter of the two terminal branches of the pulmonary trunk.

• It pierces the pericardium (the sac around the heart) and enters the hilum of the left lung.

• These arteries then deliver oxygen-depleted blood to each corresponding lung.

• This is one of the rare arteries that carry deoxygenated blood.

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Q94. Answer: (d) Shi Yuqi

The correct answer is option 4) i.e. Shi Yuqi.

• China's top men's singles shuttler Shi Yuqi defeated Japan's Kento Momota in the final at the 2018 BWF World Tour Finals held in Guangzhou, China.

• In the women's singles final, India's Pusarla V. Sindhu defeated Nozomi Okuhara and won her first title, after losing four finals including the World Championships and Asian Games.

• The HSBC BWF World Tour is a circuit of 25 tournaments held all around the world.

Q95. Answer: (b) Stamp duty and registration

The correct answer is option 2) i.e. Stamp duty and registration.

• Stamp duty and registration is levied by state governments on documents used in transactions such as contracts, mortgages, licences and commissions.

• Stamp duty is levied on documents that create, transfer, limit, extend, extinguish or record a right or liability.

• Such documents become legal when they are stamped with either adhesive or embossed stamps, and after the duty is paid in full.

• It is the responsibility of the writer or bearer of the document to pay the stamp tax to the government officials or other officials.

• These individuals will often include the stamp tax in their service fees.

Q96. Answer: (a) Real Time Gross Settlement

The correct answer is option 1) i.e. Real Time Gross Settlement.

• “Real-time” in RTGS means that the process of settling inter-bank payments happen in “real-time” and do not have any waiting period. So the payments are cleared instantly.

• The minimum amount to be remitted through RTGS (Real Time Gross Settlement) is Rs. 2,00,000 (2 lakhs).

• There is no maximum limit.

• Earlier the orders/transactions were bundled together and cleared at the end of the day making the financial data vulnerable to cyber-attacks.

• It is generally employed for large-value inter-bank funds transfers.

Extra:-

NEFT (National Electronic Fund Transfer) – Electronic fund transfers are maintained by RBI.

• Unlike RTGS, NEFT, transactions are not cleared immediately but are bundled together and cleared in a half-hourly batches.

IMPS(Immediate Payment service) – Immediate electronic fund transfer service through mobile phones.

• Unlike NEFT and RTGS, it is available 24x7, throughout the year.

• It is managed by National Payments Corporation of India (NPCI)

Q97. Answer: (d) Jal Shakti

The correct answer is option 4) i.e. Jal Shakti.

• The government has launched the new Jal Shakti ministry by merging the Ministry of Water Resources, River Development and Ganga Rejuvenation and Ministry of Drinking Water and Sanitation.

• Gajendra Singh Shekhawat has been appointed as the Minister of Jal Shakti.

• The aim of the new ministry is to provide clean drinking water as well as fight water woes in the country.

• The ministry will also be responsible for tackling international and inter-state water disputes and carry forward the Namami Gange project.

Q98. Answer: (a) Environment

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

• The Goldman Prize is awarded annually to environmental heroes from each of the world’s six inhabited continental regions

• The Prize honours the achievements and leadership of grassroots environmental activists from around the world, inspiring all of us to take action to protect our planet.

• The Goldman Environmental Foundation announced six recipients of the 2019 Goldman Environmental Prize in April 2019, the world’s foremost award for grassroots environmental activists.

• The year 2019 marked the 30th anniversary of the Prize, which was founded in 1989 in San Francisco by philanthropists and civic leaders Rhoda and Richard Goldman.

Q99. Answer: (c) Dudhwa

The correct answer is option 3) i.e. Dudhwa.

• Dudhwa National Park was declared as a reserved forest in 1861.

• In 1977 the Government declared 614 sq. km. area of Kheri district reserved as Dudhwa National Park.

• Dudhwa National Park is known as the 1^(st) National Park of the state after the formation of Uttarakhand.

• In 1987 Dudhwa National Park and Kishunpur Pashu Vihar were merged to form Dudhwa Tiger Reserve (DTR).

• It is home to a large number of rare and endangered species which includes Tiger, Leopard cat, Sloth bear, One-horned rhinoceros, Elephants, Black deer & Swamp deer, etc.

Name of the National Park	State in which it is located
Van Vihar	Bhopal
Hemis	Ladakh
Dachigam	Jammu and Kashmir

Q100. Answer: (c) 23 March, 1931

The correct answer is option 3) i.e. 23 March 1931.

• Bhagat Singh was a socialist revolutionary and freedom fighter who was executed at the age of 23 for his dramatic violence against the British rule.

• On March 23, 1931, Bhagat Singh along with his associates Sukhdev Thapar and Shivaram Rajguru were hanged to death for the assassination of 21-year-old British police officer John Saunders.

• The day they were executed is celebrated as Martyrs' Day throughout the country.

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