SSC CHSL 2020 Official Paper 11 (Held On: 16 April 2021 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the INCORRECTLY spelt word.

(a) Bleak
(b) Throttle
(c) Persuit
(d) Ordinance

Q2. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. That magic is believing in yourself a hundred per cent.

B. There is only one magic in life that can help you turn your dreams into reality.

C. You will be able to face life's challenges with courage only if you believe in yourself and in your capacity to meet those challenges.

D. Therefore, the most important lesson that a family can teach its members is to have this faith in oneself.

(a) BCDA
(b) BACD
(c) CDAB
(d) ABCD

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 substitution required'.

Wasim agreed to share his notes with Arif on conditions that he are return them in a day.

(a) on the condition that he would return
(b) No substitution required
(c) on his condition that he is returning
(d) on condition that he will be return

Q4. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. In arid regions it may form an almost erect shrub.

B. The grape is usually a woody vine, climbing by means of tendrils and often reaching a length of 17 metres or more.

C. Small greenish flowers, in clusters, precede the fruit, which varies in colour from almost black to green, red and amber.

D. The edible leaves are alternate, palmately lobed and always tooth-edged.

(a) CBDA
(b) BCDA
(c) BADC
(d) ADCB

Q5. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Most hotels/ offer for their guests/ complimentary breakfast/ during their stay there.

(a) offer for their guests
(b) complimentary breakfast
(c) Most hotels
(d) during their stay there

Q6. Select the option that expresses the given sentence in the direct speech.

Netra says that the flowers look beautiful.

(a) Netra says, “The flowers look beautiful.”
(b) Netra said, “The flowers are looking beautiful.”
(c) Netra says, “The flower have looked beautiful.”
(d) Netra says, “The flowers looks beautiful.”

Q7. Select the most appropriate word to fill in the blank.

If our product does not meet your _____, we will refund your payment in full.

(a) principles
(b) procurements
(c) advertisement
(d) requirements

Q8. Select the most appropriate meaning of the given idiom.

Child’s play

(a) Something that everybody knows
(b) Something children have made by themselves
(c) Something for a child to play with
(d) Something that is very easy to do

Q9. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don’t find any error, mark ‘No error’ as your answer.

Keep looking and / you are sure to find the meaning / of the word on that page. / No error.

(a) of the word on that page
(b) Keep looking and
(c) No error
(d) you are sure to find the meaning

Q10. Select the most appropriate word to fill in the blank.

There is an _____ in the advertising company for a copy writer.

(a) instance
(b) opening
(c) occasion
(d) incidence

Q11. Select the most appropriate ANTONYM of the given word.

Bland

(a) Boring
(b) Flimsy
(c) Weak
(d) Exciting

Q12. Select the option that expresses the given sentence in the passive voice.

A kite’s nylon ‘manja’ (string) has cut the throat of a scooterist.

(a) A kite’s nylon ‘manja’ (string) has been cut by the throat of a scooterist.
(b) The throat of a scooterist has been cut by a kite’s nylon ‘manja’ (string).

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(c) A scooterist's kite's nylon 'manja' (string) has cut the throat of someone.
(d) The throat of someone had been cut by a scooterist's kite's nylon 'manja' (string).

Q13. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

We have been waiting here for you since two hours.

(a) from two hours
(b) No substitution required
(c) in two hours
(d) for two hours

Q14. Select the most appropriate meaning of the given idiom.

Get One's Ducks in a Row

(a) have everything properly organized
(b) have everything messily arranged
(c) have nothing properly organized, though ready
(d) have everything improperly disorganized

Q15. Select the most appropriate synonym of the given word.

Lint

(a) Fur
(b) Film
(c) Copy
(d) Joint

Q16. Select the most appropriate synonym of the given word.

Wistful

(a) Happy
(b) Shallow
(c) Contented
(d) Sorrowful

Q17. Select the option that can be used as a one-word substitute for the given group of words.

The branch of science concerned with the study of Earth and its composition.

(a) Metrology
(b) Biology
(c) Geology
(d) Zoology

Q18. Select the option that can be used as a one-word substitute for the given group of words.

In an enthusiastic way

(a) Feelingly
(b) Earnestly
(c) Encouragingly
(d) Heartily

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

Pernicious

(a) Nefarious
(b) Malicious
(c) Malcontent
(d) Beneficial

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Q20. Select the INCORRECTLY spelt word.

(a) Principle
(b) Fraksion
(c) Haunting
(d) Freshen

Directions

In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

In 1938, the famous actor, Orson Welles, terrified New York. (1) ____ radio play about an invasion of the city by Martians sounded totally real. It sounded so real that many people (2)__ that it was an actual news report. Thousands of people (3) __ and there was chaos and disorder in the streets of the city for several hours. Today, however, we know that there aren't any "little green men" on the (4) __ nearest Earth. There was going to be a Martian invasion – only this time it was going to be in the (5) ____ direction.

Q21. Select the most appropriate option to fill in blank number 1.

(a) Our
(b) Their
(c) His
(d) Her

Q22. Select the most appropriate option to fill in blank number 2.

(a) admitted
(b) refuted
(c) disbelieved
(d) believed

Q23. Select the most appropriate option to fill in blank number 3.

(a) stopped
(b) shouted
(c) panicked
(d) jumped

Q24. Select the most appropriate option to fill in blank number 4.

(a) space
(b) system
(c) galaxy
(d) planet

Q25. Select the most appropriate option to fill in blank number 5.

(a) difficult
(b) same
(c) opposite
(d) different

GENERAL INTELLIGENCE

Q26. Select the number that can replace the question mark (?) in the following series.

45, 49, 57, ?, 105, 169

(a) 70
(b) 69
(c) 73
(d) 75

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Q27. Select the option in which the numbers are related in the same way as are the numbers of the following set.

(169, 289, 361)

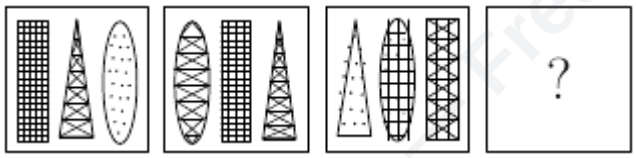
(a) (529, 841, 961)

(b) (441, 529, 625)

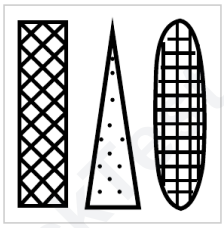
(c) (256, 324, 484)

(d) (225, 324, 441)

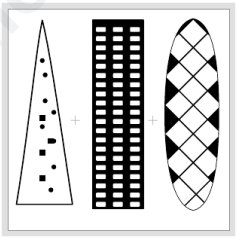
Q28. Select the figure from among the given options that can replace the question mark (?) in the following series



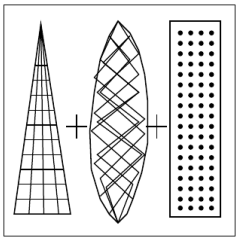
(a)



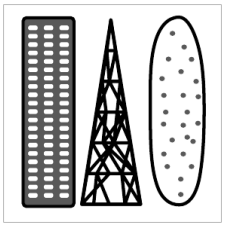
(b)



(c)

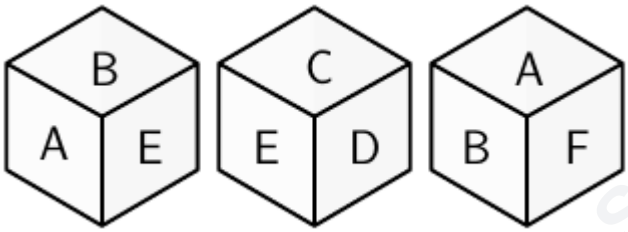


(d)



Q29. Three different positions of the same dice are shown. Select the letter that will be on the face opposite to the face having the letter F.

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

Q30. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

Z _ C Y E _ X _ Y _ Z X C _ E

(a) X Z C E Y
(b) Z E C X Y
(c) C X Y Z E
(d) E C Y X Z

Q31. Select the option figure contains figure X embedded in its part (rotation is NOT allowed).

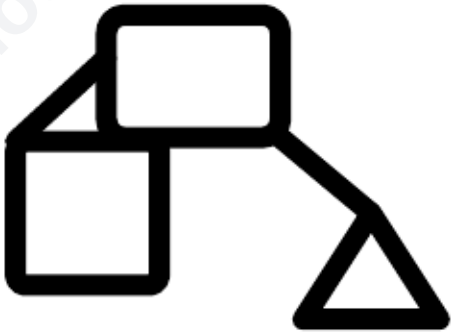
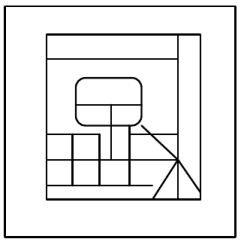


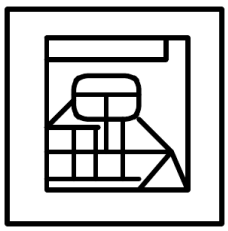
Figure X

(a)

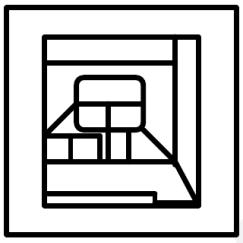


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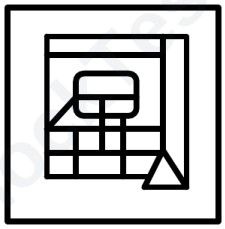
(b)



(c)



(d)



Q32. Which two signs should be interchanged to make the given equation correct?

24 ÷ 4 + 50 – 20 × 6 = 35

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

Q33. 'Farsightedness' is related to 'Eyes' in the same way as 'Gout' is related to '_____'.

(a) Heart
(b) Joints
(c) Liver
(d) Hair

Q34. Four letter-clusters have been given in the options, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) SWZDG
(b) JNQUX
(c) MQTXA
(d) PTXBF

Q35. Two 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:

Some teeth are colours.

Some colours are objects.

Conclusions:

I. All objects are teeth.

II. Some colours are teeth.

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III. Some objects are colours.

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

Q36. Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Tonsil
2. Naval
3. Eardrum
4. Calf muscle
5. Thalamus

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

Q37. In a certain code language, LIABILITY is coded as 950759513 and PROCTOR is coded as 8642146. How will PICTORIAL be coded in that language?

(a) 862145609
(b) 952461508
(c) 852146509
(d) 642158409

Q38. Asmit's wife is Reena and Rani's husband is Aditya. Rani's father-in-law is the paternal grandfather of Reena's only daughter Sia. How is Asmit related to Aditya?

(a) Brother-in-law
(b) Brother
(c) Uncle
(d) Cousin

Q39. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

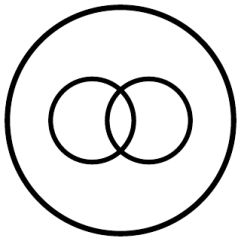
61 : 97

(a) 51 : 57
(b) 39 : 67
(c) 147 : 199
(d) 141 : 193

Q40. Select the Venn diagram that best represents the relationship between the following classes.

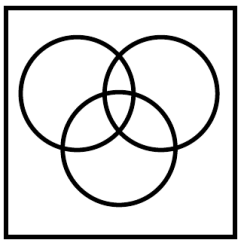
Girls, Athletes, Students

(a)

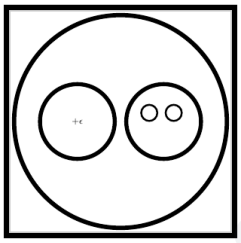


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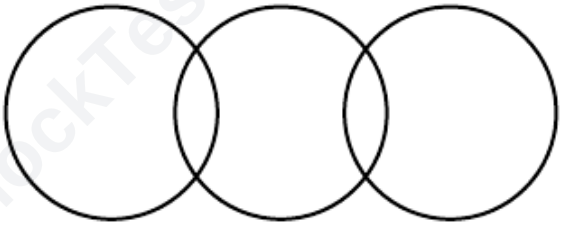
(b)



(c)



(d)



Q41. Three of the following four words are alike in a certain way and one is different. Select the odd one.

(a) Carpenter
(b) Job
(c) Journalist
(d) Architect

Q42. 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.

USY : RPV : : MXQ : ?

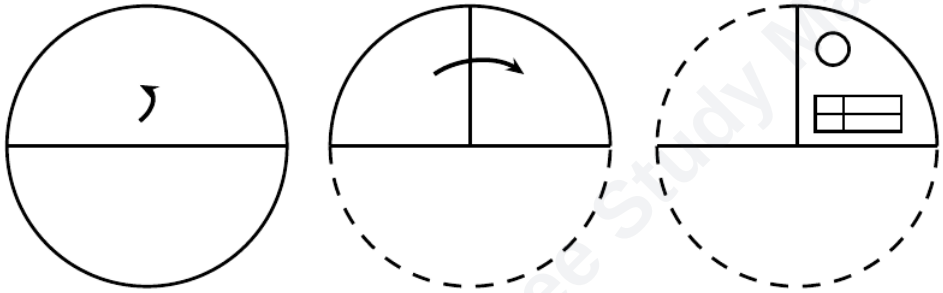
(a) KUM
(b) JUM
(c) JUN
(d) JRN

Q43. A drum contains 40 litres of milk. One-fourth of the milk is taken out and replaced with water. Then, half of the mixture is taken out and replaced with water. What is the respective quantity of milk and water left in the drum?

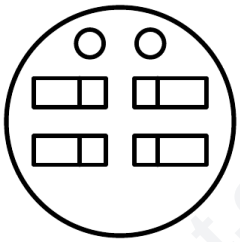
(a) 10 litres and 30 litres
(b) 25 litres and 15 litres
(c) 15 litres and 25 litres
(d) 20 litres and 20 litres

Q44. A piece of paper is folded and cut as shown below in the question figures. Select from the given answer figures, how it will appear when unfolded.

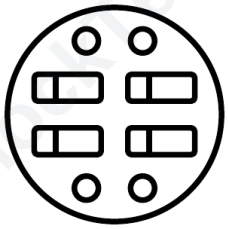
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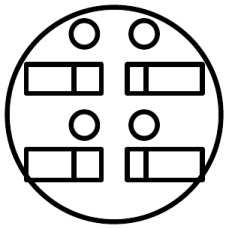
(a)



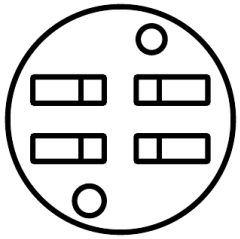
(b)



(c)



(d)

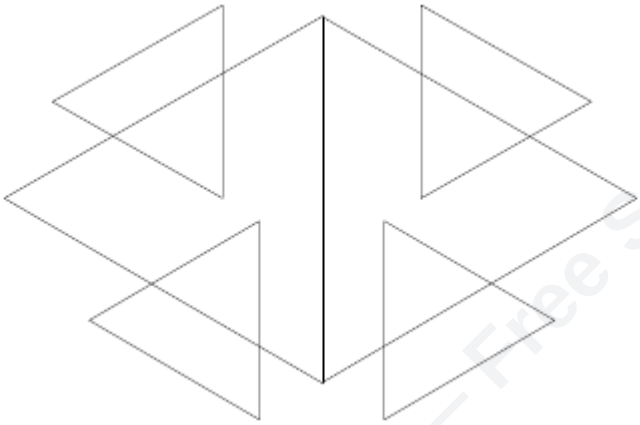


Q45. In a code language, ROBIN is written as TRFNT. How will PETER be written in that language?

(a) RHXJX
(b) RHVKX
(c) SHYJZ
(d) RGXJW

Q46. How many triangles are there in the given figure ?

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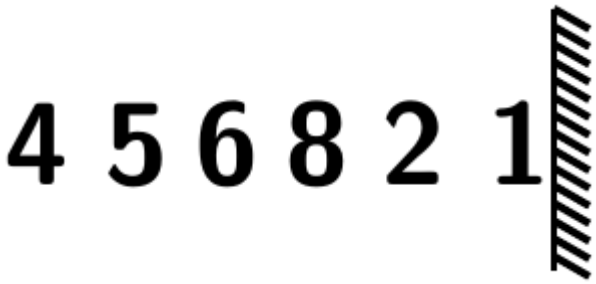


(a) 12
(b) 10
(c) 13
(d) 7

Q47. Four numbers have been given in the options, out of which three are alike in some manner and one is different. Select the number that is different.

(a) 643
(b) 131
(c) 562
(d) 557

Q48. Select the correct mirror image of the given number cluster when a mirror is placed on its right side.



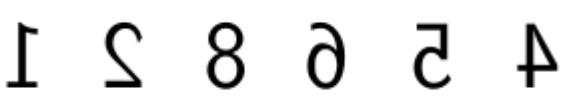
(a)



(b)



(c)



(d)



Q49. Select the option in which the numbers share the same relationship as that shared by the numbers in the given set.

(14, 11, 27)

(a) (35, 31, 64)
(b) (25, 31, 36)
(c) (42, 39, 36)
(d) (19, 11, 46)

Q50. Select the option in which the words share the same relationship as that shared by the given pair of words.

Mason : Floor

(a) Judge : Court
(b) Carpenter : Door
(c) Doctor : Hospital
(d) Teacher : Blackboard

QUANTITATIVE APTITUDE

Q51. If $\sin\theta = 12/13$, then $(\sin^2\theta - \cos^2\theta)/(2\cos\theta \sin\theta) \times \cot^2\theta$

(a) 119/864
(b) 595/1152
(c) 119/144
(d) 595/3456

Q52. The side BC of triangle ABC is produced to D. The bisectors of angle ABC and angle ACD meet at E. If AB = AC and angle BEC = 35°, then the measures of angle ABC will be:

(a) 75°
(b) 35°
(c) 55°
(d) 45°

Q53. If $(\cos^2\theta - 1)(2\sec^2\theta) + \sec^2\theta + 2\tan^2\theta = 2$, $0° < \theta < 90°$, then the value of $(\sec\theta + \sin\theta)/(\text{cosec}\,\theta - \cos\theta)$ will be:

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

Q54. In triangle ABC, angle B = 90°. AD and CE are the medians drawn from A and C, respectively. If AC = 10 cm and AD = √ 55 cm, the length of CE is:

(a) √ 70 cm
(b) 5√ 3 cm
(c) √ 66 cm
(d) 2√ 15 cm

Q55. If decreasing 180 by x% gives the same result as increasing 60 by x%, then x% of 410 will be more than (x + 20)% of 210 (correct to two decimal places) by:

(a) 37.57%
(b) 36.57%
(c) 31.67%
(d) 39.46%

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Q56. A certain number of persons can complete a work in 54 days. If there were 15 persons less, it would take 18 days more for the work to be completed. Initially, the number persons is:

(a) 60
(b) 72
(c) 56
(d) 50

Q57. If $a^2 + 4b^2 + 25c^2 + 18 = 2(a - 2b + 20c)$, then what is the value of $(a + 2b + 5c)$?

(a) 6
(b) 5
(c) 3
(d) 4

Q58. If $x + y + z = 4$, $xy + yz + zx = 1$ and $x^3 + y^3 + z^3 = 34$, then what is the value of $2xyz$?

(a) 8
(b) -12
(c) -6
(d) 18

Q59. If the average of the 3 digit numbers 335, 2x5, x35, 63x and 406 is 411, then what will be the average of x - 1, x - 3, x + 3 and x + 5 ?

(a) 6
(b) 3
(c) 4
(d) 5

Q60. A person rows upstream a distance of 55 km in 5 hours and rows downstream a distance of 75 km in 3 hours. How much time will he take to row a distance of 96 km in still water?

(a) 4 hours 40 minutes
(b) 5 hours 20 minutes
(c) 5 hours 45 minutes
(d) 6 hours 10 minutes

Q61. The area of a triangular field whose sides are 96m, 110m, and 146 m is equal to the area of a rectangular park whose sides are in the ratio 3 : 2. What is the perimeter (in m) of the rectangular park?

(a) 80√ 5
(b) 40√ 11
(c) 20√ 55
(d) 40√ 55

Q62. A and B are two points on a circle with centre O. C is a point on the minor arc of the circle between points A and B. The tangents to the circle at A and B meet each other at a point D. If angle ADB = 25°, then angle ACB (in degrees) is equal to :

(a) 102.5
(b) 105
(c) 100.5
(d) 100

Q63. The value of (55/6÷ 31/2 of 10/21) ÷ (3/4 ÷ 11/2 of 4/5 - 4/5 × 1/2) of 35/18 is

(a) 6
(b) 31/2
(c) 14/5
(d) 8

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Q64. If $3(\sec^2\theta + \tan^2\theta) = 5$, $0° < \theta < 90°$, then the value of cosec θ is:

(a) 1/2
(b) 1/√3
(c) 2
(d) 2√3/3

Q65. Study the given table and answer the question that follows.

In the table, the annual consumption (in hundred tonnes) of coffee in five states (A, B, C, D and E) across six years (2014 to 2019) is given.

State / Year	A	B	C	D	E
2014	112	130	136	105	117
2015	122	138	150	140	120
2016	124	134	142	144	132
2017	132	154	198	149	133
2018	135	148	187	151	145
2019	153	136	198	150	187

By what percentage is the total consumption of coffee in state D from 2014 to 2016 less than the total consumption of coffee in states A, B, C, and E in 2015 (correct to one decimal place)?

(a) 26.7%
(b) 25.2%
(c) 27.7%
(d) 32.5%

Q66. If the ratio of A : B is 5 : 4 and B : C is 3 : 5 then the ration of A : B : C is :

(a) 12 : 15 : 20
(b) 15 : 12 : 20
(c) 20 : 15 : 12
(d) 15 : 20 : 12

Q67. Which of the following is divisible by 88?

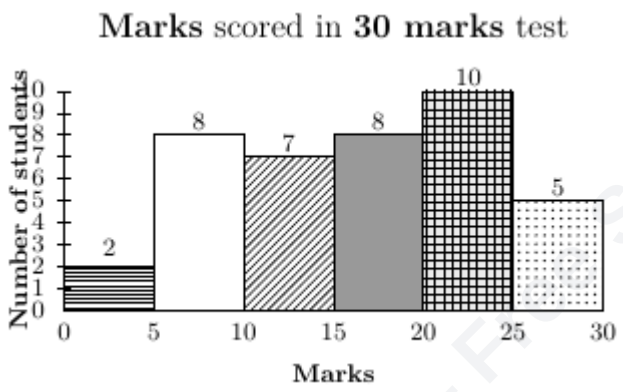
(a) 2776408
(b) 2776400
(c) 2767416
(d) 2767440

Q68. If $x + 1/x = 7$, then $x^3 + 1/(x^3)$ is equal to:

(a) 340
(b) 161
(c) 343
(d) 322

Q69. The histogram shows the marks scored by 40 students in test with maximum 30 marks.

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What is the ratio of the number of students who scored marks in the class intervals 10 - 15 and 15 - 20 taken together to that of the students in the class intervals 5 - 10 and 25 - 30 taken together?

(a) 13 : 15
(b) 1 : 1
(c) 15 : 13
(d) 17 : 13

Q70. A mobile phone is available for Rs. 79,860 by cash payment or by paying cash of Rs. 60,000 as down payment and the remaining amount in three equal annual instalments. If the shopkeeper charges interest at the rate of 10% per annum compounded annually, then the amount of each instalment (in Rs) will be:

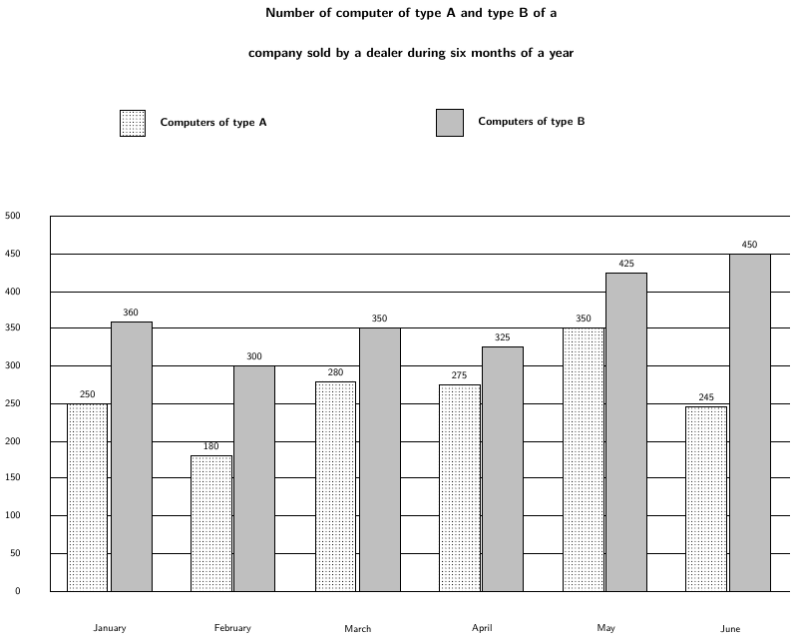
(a) 6,689
(b) 6,789
(c) 7,986
(d) 6,000

Q71. The marked price of an article is Rs. 300. It is sold for Rs. 177.84 after giving three successive discounts of 20%, x% and 5%. What is value of x ?

(a) 22
(b) 18
(c) 24
(d) 15

Directions

Study the graph ans answer the question that follows.



Q72. If there is a profit of Rs. 2,500 and Rs. 3,000 on the sale of one computer of type A and one computer of type B, respectively, then what is the total profit (in thousand rupees) on the sale of 15% computers of type A in February and 10% computers of type B in June?

(a) 202.5
(b) 192.5
(c) 172.5
(d) 212.5

Q73. The ratio of the total number of computers of type A sold in February, April and June to the total number of computers of type B sold in April and May is:

(a) 14 : 15
(b) 16 : 15
(c) 11 : 13
(d) 8 : 7

Q74. A shopkeeper buys some notebooks at the rate of 12 for Rs. 222, and an equal number of notebooks at 10 for Rs. 225. If the sells all the notebooks at a profit of 20%, then the selling price of the 15 notebooks is:

(a) Rs. 369
(b) Rs. 302.40
(c) Rs. 376.5
(d) Rs. 360

Q75. PQRS is a cyclic quadrilateral. If angle P is four time angle R and angle S is three times angle Q, then sum of the measures of angle S and angle R will be:

(a) 165°
(b) 192°
(c) 171°
(d) 175°

GENERAL AWARENESS

Q76. Which of the following metals reacts with the moist carbon dioxide in the air and slowly loses its shiny brown surface and gains a green coat?

(a) Silver
(b) Zinc
(c) Iron
(d) Copper

Q77. When did Bangladesh get independence from Pakistan?

(a) 1971
(b) 1965
(c) 1949
(d) 1976

Q78. The book 'Indian Parliamentary Diplomacy - Speaker's Perspective' is authored by _____.

(a) Om Birla
(b) Balram Jhakar
(c) Meira Kumar
(d) Shivraj Patil

Q79. With which of the following classical dances is ‘Kottakkal Sivaraman’ associated?

(a) Odissi
(b) Mohiniyattam
(c) Kathakali
(d) Bharatanatyam

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Q80. Kumbh Mela 2021 organised at _____.

(a) Prayagraj
(b) Nashik
(c) Haridwar
(d) Ujjain

Q81. Which of the following is NOT a water or hygiene related disease?

(a) Trachoma
(b) Buruli ulcer
(c) Schistosomiasis
(d) Diabetes

Q82. Who among the following won the Male Sportsperson of the Year Award at the FICCI India Sports Awards in December 2020?

(a) Virat Kohli
(b) Rohit Sharma
(c) Bajrang Punia
(d) Sushil Kumar

Q83. In which of the following states was the 'One District-One Product scheme' launched in January 2018?

(a) Bihar
(b) Uttar Pradesh
(c) Madhya Pradesh
(d) Rajasthan

Q84. Which of the following empires was founded by Harihara and Bukka in 1336?

(a) Kushan empire
(b) Vijayanagara empire
(c) Chera empire
(d) Maratha empire

Q85. Which of the following banks has launched an online platform 'Infinite India' in December 2020, to cater the needs of foreign companies looking to establish or expand business in India?

(a) Induslnd Bank
(b) SBI Bank
(c) HDFC Bank
(d) ICICI Bank

Q86. Which of the following operating systems guarantees a response within specified time constraints?

(a) Distributed operating system
(b) Real-time operating system
(c) Time sharing operating system
(d) Interactive operating system

Q87. The drainage pattern formed when rivers discharge their waters from all directions in a lake or depression is known as _____.

(a) dendritic
(b) radial
(c) trellis
(d) centripetal

Q88. In which of the following states are the snake boat races held in the months of August and September?

(a) Telangana
(b) Arunachal Pradesh
(c) Jharkhand

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(d) Kerala

Q89. Which of the following states was a major producer of jute in 2017-18 as per the Ministry of Textiles, Government of India?

(a) Telangana
(b) Jharkhand
(c) Chattisgarh
(d) Bihar

Q90. The members of the Constituent Assembly signed the Constitution of India on _____.

(a) 24 January 1950
(b) 24 January 1952
(c) 26 November 1948
(d) 26 November 1949

Q91. _____ is a deep red soil found in tropical regions and often developed on mafic igneous bedrock.

(a) Saline
(b) Arid
(c) Laterite
(d) Pedocal

Q92. Which of the following is a weak electrolyte?

(a) Calcium chloride
(b) Sodium chloride
(c) Ethanoic acid
(d) Magnesium sulphate

Q93. Sarbpreet Singh is the author of which of the following books?

(a) 40 years with Abdul Kalam - Untold Stories
(b) The Wrong Family
(c) Grandparents' Bag of Stories
(d) Night of the Restless Spirits: Stories from 1984

Q94. Which of the following is a small piece of software that uses computer networks and security holes to replicate itself?

(a) Worm
(b) Trojan horse
(c) Application
(d) Operating System

Q95. What is the state-wise representation of members from Gujarat in Lok Sabha as of December 2020?

(a) 19
(b) 28
(c) 26
(d) 14

Q96. Peppara Wildlife Sanctuary is situated in which of the following states?

(a) Meghalaya
(b) Tamil Nadu
(c) Punjab
(d) Kerala

Q97. Who among the following cricketers won the 'ICC Spirit of Cricket Award of the Decade' in December 2020?

(a) Daniel Vettori
(b) Mahela Jayawardene
(c) Brendon McCullum

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(d) Mahendra Singh Dhoni

Q98. Who among the following is an Indian diplomat elected to the United Nations Advisory Committee on Administrative and Budgetary Questions in November 2020?

(a) Anita Bhatia
(b) Soma Mondal
(c) Mahita Nagaraj
(d) Vidisha Maitra

Q99. With which of the following sports is Samiya Imad Farooqui associated?

(a) Basketball
(b) Tennis
(c) Boxing
(d) Badminton

Q100. Who among the following has assumed the DGP charge of Andaman and Nicobar in December 2020?

(a) Niranjan Hiranandani
(b) Satyendra Garg
(c) Dependra Pathak
(d) Sumant Sinha

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Persuit

The solution is in Hindi. Read it online.

Q2. Answer: (b) BACD

The correct answer is- 'BACD.'

Key Points

• By reading the above-given para we can understand that the paragraph is about the magic of having faith in one's self.
• Part B will come first, as it introduces the theme of the passage (Magic of belief).
• Part A will come next, as the conjunction 'that' joins the two sentences and provides more information about the subject (Magic).
• Part C will follow next, as it adds more information about the magic of belief.
• Part D will conclude the passage.
• Thus option 2 is the correct answer.

The correct sequence is:

B. There is only one magic in life that can help you turn your dreams into reality.

A. That magic is believing in yourself a hundred per cent.

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C. You will be able to face life's challenges with courage only if you believe in yourself and in your capacity to meet those challenges.

D. Therefore, the most important lesson that a family can teach its members is to have this faith in oneself.

Important Points

• Here are some tips to solve the para jumbles:

• You need to understand the idea behind the paragraph. If you can understand the idea/theme of the paragraph it is easy to put the sentences in order then.

• You should look out for the starting or the concluding sentences in the question. Sometimes they are clearly visible and can help you immensely in identifying the correct sequence.

• You need to know the relationships between different sentences to put them in the right sequence.

• You should first fix the relationships of sentences, put them in order and then check the options.

• Transition words and contrasting words also help in finding clean relationships between sentences of the sentence rearrangement.

• Do not over depend on options, they only confuse you if you keep looking at them, use them as facilitators only, especially to fix your first sentence.

• The whole paragraph should have a coherent idea and flow when arranged in the correct order.

Q3. Answer: (a) on the condition that he would return

The correct answer is- 'on the condition that he would return.'

Key Points

• In the given sentence, the helping verb (are) is incorrectly used.

• In conditional sentences where the outcome is unlikely to happen, we use a model auxiliary verb.

• To make this sentence correct replace the helping verb 'are' with 'would.'

• Thus option 1 is the correct answer.

The correct sentence is: Wasim agreed to share his notes with Arif on conditions that he would return them in a day.

Additional Information

• Let's understand about zero conditional sentences:

• Zero conditionals are used to express general truth, habit or fact.

• Structure: If + simple present (if-clause) + simple present (main clause)

• Example: If the sun rises (if-clause), we get sunlight (main clause).

Q4. Answer: (c) BADC

The correct answer is- 'BADC.'

Key Points

• By reading the above-given para we can understand that the paragraph is about grapes.

• Part B will come first, as it introduces the subject of the paragraph (Grapes).

• Part A will come next, as the pronoun 'it' refers to the noun 'Grapes'.

• Part C will follow D, as D first mentions the leaves and then comes the flowers and fruits in part C.

• Thus option 3 is the correct answer.

The correct sequence is:

B. The grape is usually a woody vine, climbing by means of tendrils and often reaching a length of 17 metres or more.

A. In arid regions it may form an almost erect shrub.

D. The edible leaves are alternate, palmately lobed and always tooth-edged.

C. Small greenish flowers, in clusters, precede the fruit, which varies in colour from almost black to green, red and amber.

Important Points

• Here are some tips to solve the para jumbles:

• You need to understand the idea behind the paragraph. If you can understand the idea/theme of the paragraph it is easy to put the sentences in order then.

• You should look out for the starting or the concluding sentences in the question. Sometimes they are clearly visible and can help you immensely in identifying the correct sequence.

• You need to know the relationships between different sentences to put them in the right sequence.

• You should first fix the relationships of sentences, put them in order and then check the options.

• Transition words and contrasting words also help in finding clean relationships between sentences of the sentence rearrangement.

• Do not over depend on options, they only confuse you if you keep looking at them, use them as facilitators only, especially to fix your first sentence.

• The whole paragraph should have a coherent idea and flow when arranged in the correct order.

Q5. Answer: (a) offer for their guests

The correct answer is- 'offer for their guests.'

Key Points

• In the given sentence there is an error of preposition (for).

• The preposition (for) is not required in this sentence after the verb (offer), as 'offer' is acting as a transitive verb in this sentence thus it will take a direct object (guests).

• So to make this sentence correct remove the preposition 'for.'

• Thus option 1 is the correct answer.

The correct sentence is: Most hotels offer their guests complimentary breakfast during their stay there.

Additional Information

• Let's learn more about transitive and intransitive verbs:

• Transitive verbs: A transitive verb is a verb that can take a direct object, which means the action of the verb is directly done to someone or something.

• Example:

• Ramesh bought for dozens of cakes. (Incorrect sentence, as the verb bought is a transitive verb and takes a direct object.)

• Ramesh bought dozens of cakes. (Correct sentence)

• **Intransitive verbs: An intransitive verb is a verb that can not take a direct object, which means the action of the verb is not done or cannot be done directly to someone or something.

• Example:

• Rohit laughed his younger brother. (Incorrect sentence, as you cannot laugh someone thus it is an intransitive verb)

• Rohi laughed at his younger brother. (Correct sentence)

Q6. Answer: (a) Netra says, “The flowers look beautiful.”

The correct answer is- 'Netra says, “The flowers look beautiful.”'

Key Points

• To convert the given sentence into direct speech, 'that' should be removed.

• The statement should be quoted in inverted commas.

• As we know when the reporting speech (Netra says) is in the present tense, there will be no changes in the reported speech.

• So option 1 is the correct answer.

And the direct speech form is: Netra says, “The flowers look beautiful.”

Additional Information

• When converting from indirect to direct speech, and the reporting speech is in past tense then the tense of reported speech changes as follows:

• Past perfect changes to part simple

• Past perfect continuous changes to part continuous

Q7. Answer: (d) requirements

The solution is in Hindi. Read it online.

Q8. Answer: (d) Something that is very easy to do

The solution is in Hindi. Read it online.

Q9. Answer: (c) No error

The correct answer is- 'No error.'

Key Points

• The given sentence is grammatically correct and error-free.

• And there is no need for any improvement in this sentence.

• So the correct answer for this question is 'No error.'

Thus option 3 is the correct answer.

Additional Information

• Let's understand the meaning of Sure.

• The word Sure is an adjective and it means certain or without any doubt.
• Example: I'm sure I left my keys on the table.

Q10. Answer: (b) opening

The solution is in Hindi. Read it online.

Q11. Answer: (d) Exciting

The solution is in Hindi. Read it online.

Q12. Answer: (b) The throat of a scooterist has been cut by a kite's nylon 'manja' (string).

The correct answer is- 'The throat of the scooterist has been cut by kite's nylon 'manja' (string).'

Key Points

• To change the given sentence into passive voice, the object (The throat of a scooterist) will be the subject.
• And the auxiliary verb (has) will become 'has been'
• The main verb (cut) will remain in its third form.
• And the subject will act as an object for the new sentence.
• Thus option 3 is the correct answer.

So the passive form will be: The throat of the scooterist has been cut by kite's nylon 'manja' (string).

Additional Information

• Let's understand how the verbs change when converting a sentence from active voice to passive voice.
• Presente simple - is/am/are + verb (3rd from)
• Present contineous - is/am/are + being + verb (3rd from)
• Present perfect - has/have + been + verb (3rd from)

Q13. Answer: (d) for two hours

The correct answer is- 'for two hours.'

Key Points

• In the given sentence the preposition (since) is incorrectly used.
• We know that we use since to refer to a point of time. Since can refer to a point after a specific time or event in the past. Or it can refer to a particular point beginning sometime in the past and continuing until the present time.
• But in this question time period is not specific, we use for when we are talking about vague periods of time, like "for the weekend", "for ages" or "for a long time".
• Thus option 3 is the correct answer.

And the correct sentence will be: We have been waiting here for you for two hours.

Additional Information

• Let's learn a simple trick to use 'for' in a sentence:
• for + a period of time (a "period" is a duration of time - five minutes, two weeks, six years)
• Example: Last year, I traveled for three weeks.
• But remember when we use 'since' when:
• since+ last + a period of time
• Example: He has been playing since last two hours

Q14. Answer: (a) have everything properly organized

The solution is in Hindi. Read it online.

Q15. Answer: (a) Fur

The solution is in Hindi. Read it online.

Q16. Answer: (d) Sorrowful

The solution is in Hindi. Read it online.

Q17. Answer: (c) Geology

The solution is in Hindi. Read it online.

Q18. Answer: (d) Heartily

The solution is in Hindi. Read it online.

Q19. Answer: (d) Beneficial

The solution is in Hindi. Read it online.

Q20. Answer: (b) Fraksion

The solution is in Hindi. Read it online.

Q21. Answer: (c) His

The correct answer is- 'His.'

Key Points

• In this sentence, the correct option to fill in the blank is 'his,' as this possessive pronoun refers to the noun 'Orson Welles.'

• To show the possession of a masculine noun we use the possessive pronoun 'his.'

• Example: Rohit lives in Delhi and his family lives in Mumbai.

• Thus option 3 is the correct answer.

The complete passage is- In 1938, the famous actor, Orson Welles, terrified New York. (1) his radio play about an invasion of the city by Martians sounded totally real. It sounded so real that many people (2)believed that it was an actual news report. Thousands of people (3)panicked and there was chaos and disorder in the streets of the city for several hours. Today, however, we know that there aren't any "little green men" on the (4) planet nearest Earth. There was going to be a Martian invasion – only this time it was going to be in the (5) opposite direction.

Additional Information

• Let's understand the meaning of the word Martians:

• The word Martians is a noun and it means an imaginary creature who is believed to come from Mars.

• Example: There is no evidence about Martians.

Q22. Answer: (d) believed

The correct answer is- 'believed.'

Key Points

• In this sentence, the correct option to fill in the blank is 'believed,' as only after believing this news do people start to panic.

• The word believe is a verb and it means to think that something is true, correct, or real.

• Example: He believes that all children are born with equal intelligence.

• Thus option 4 is the correct answer.

The complete passage is- In 1938, the famous actor, Orson Welles, terrified New York. (1) his radio play about an invasion of the city by Martians sounded totally real. It sounded so real that many people (2)believed that it was an actual news report. Thousands of people (3)panicked and there was chaos and disorder in the streets of the city for several hours. Today, however, we know that there aren't any "little green men" on the (4) planet nearest Earth. There was going to be a Martian invasion – only this time it was going to be in the (5) opposite direction.

Additional Information

• Let's understand the meaning of the other given word:

• Admitted - Allow to enter

• Refuted - Prove to be false or incorrect

• Disbelieved - Refuse to accept

Q23. Answer: (c) panicked

The correct answer is- 'panicked.'

Key Points

• In this sentence, the correct option to fill in the blank is 'panicked,' as it fits with the context of the sentence.

• Let's understand the meaning of this word:

• The word panic is a verb and it means to suddenly feel so worried or frightened that you cannot think or behave calmly or reasonably.

• Example: The sound of gunfire panicked the crowd.

• Thus option 3 is the correct answer.

The complete passage is- In 1938, the famous actor, Orson Welles, terrified New York. (1) his radio play about an invasion of the city by Martians sounded totally real. It sounded so real that many people (2)believed that it was an actual news report. Thousands of people (3)panicked and there was chaos and disorder in the streets of the city for several hours. Today, however, we know that there aren't any "little green men" on the (4) planet nearest Earth. There was going to be a Martian invasion – only this time it was going to be in the (5) opposite direction.

Additional Information

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• Let's understand the meaning of the other given word:

• Stopped - Come to a halt, cease moving

• Shouted - Utter a sudden loud cry

• Jumped - Move suddenly, as if in surprise or alarm

Q24. Answer: (d) planet

The correct answer is- 'planet.'

Key Points

• In this sentence, the correct option to fill in the blank is 'planet,' as the sentence talks about Mars which is a planet.

• Let's understand the meaning of this word:

• The word planet is a noun and it means an extremely large, round mass of rock and metal, such as Earth, or of gas, such as Jupiter, that moves in a circular path around the sun or another star.

• Example: Might there be intelligent life on other planets?

• Thus option 4 is the correct answer.

The complete passage is- In 1938, the famous actor, Orson Welles, terrified New York. (1) his radio play about an invasion of the city by Martians sounded totally real. It sounded so real that many people (2)believed that it was an actual news report. Thousands of people (3)panicked and there was chaos and disorder in the streets of the city for several hours. Today, however, we know that there aren't any "little green men" on the (4) planet nearest Earth. There was going to be a Martian invasion – only this time it was going to be in the (5) opposite direction.

Additional Information

• Let's understand the meaning of the word 'little green men':

• 'Little green men' is the stereotypical portrayal of extraterrestrials as little humanoid-like creatures with green skin and sometimes with antennae on their heads. It is a humorous way to refer to aliens.

Q25. Answer: (c) opposite

The correct answer is- 'opposite.'

Key Points

• In this sentence, the correct option to fill in the blank is 'opposite,' as it fits the context of the sentence.

• The author says 'invasion in the opposite direction' because today we are developing the technology to reach Mars, sooner or later man will reach Mars.

• And the men on earth would invade Mars before the Martians.

• Thus option 3 is the correct answer.

The complete passage is- In 1938, the famous actor, Orson Welles, terrified New York. (1) his radio play about an invasion of the city by Martians sounded totally real. It sounded so real that many people (2)believed that it was an actual news report. Thousands of people (3)panicked and there was chaos and disorder in the streets of the city for several hours. Today, however, we know that there aren't any "little green men" on the (4) planet nearest Earth. There was going to be a Martian invasion – only this time it was going to be in the (5) opposite direction.

Additional Information

• Let's understand the meaning of the given words:

• Difficult - Requiring great physical or mental effort to accomplish

• Same - Closely similar or comparable in kind or quality or quantity or degree

• Opposite - Directly facing each other

• Different - Distinctly separate from the first

Q26. Answer: (c) 73

The logic followed here is:

Hence, the correct answer is "73".

Q27. Answer: (a) (529, 841, 961)

The logic followed here is:

All the given numbers are the square of prime numbers.

For (169, 289, 361):

Option 1: (529, 841, 961)

Option 2: (441, 529, 625)

Option 3: (256, 324, 484)

Option 4: (225, 324, 441)

Hence, the correct answer is "(529, 841, 961)".

Additional InformationPrime numbers are those number which has only two factors.

Odd numbers are those numbers which are only not divisible by 2. eg. 2 is not odd as it is divisible by 2 but 7 is an odd number as it is not divisible by 2 and leaves remainder 1.

All prime numbers are odd, except the number 2. That is because all prime numbers are numbers that can only be divided evenly by itself and 1.

Q28. Answer: (d) [figure]

The pattern followed here is:

1) The shapes rectangle, triangle and oval shift their position by shifting one place to the right as we move along the series.

2) The shaded portion inside the shapes shifts its position by moving one place to the left as we move along the series.

So, the figure that will come next in the series is shown below:

Hence, ‘option 4’ is the correct answer.

Q29. Answer: (d) E

Hint

• When an equal digit/letter is on an equal surface, the remaining equal surface are opposite each other.

• When no common numbers/symbols in 2 dices, the equal surface is opposite to each other.

For this question, the relation is given below-

In first and third dice, which is shown above, faces A and B are common, which means E is the face opposite to F.

Hence, ‘F’ is the correct answer.

Additional Information

• Dices are of two types :

1. Standard Dice

2. Non-Standard Dice.

• Dice has:-

1. faces = 6

2. sides = 12

3. corners = 8

• Two opposite faces are never seen together.

• Adjacent faces are never opposite to each other.

Q30. Answer: (a) X Z C E Y

Given sequence: Z _ C Y E _ X _ Y _ Z X C _ E

By checking options and substituting accordingly.

1. X Z C E Y → Z X C Y E / Z X C Y E / Z X C Y E

Here Z X C Y E is repeated itself.

2. Z E C X Y → Z Z C Y E / E X C Y X / Z X C Y E

3. C X Y Z E → Z C C Y E / X X Y Y Z / Z X C E E

4. E C Y X Z → Z E C Y E / C X Y Y X / Z X C Z E

• Option (1) gives a pattern of Z X C Y E - Z X C Y E - Z X C Y E.

Hence, ‘X Z C E Y’ is the correct answer.

Q31. Answer: (b) [figure]

The option figure contains figure X embedded in its part when rotation is NOT allowed is shown below:

Hence, 'option 2' is the correct answer.

Q32. Answer: (c) ÷ and –

1. × and –

Given equation: 24 ÷ 4 + 50 – 20 × 6 = 35

After interchanging the symbols, we get:

L.H.S = 24 ÷ 4 + 50 × 20 – 6

= 6 + 50 × 20 – 6

= 6 + 1000 – 6

= 1006 – 6

= 1000 ≠ R.H.S

2. + and –

Given equation: 24 ÷ 4 + 50 – 20 × 6 = 35

After interchanging the symbols, we get:

L.H.S = 24 ÷ 4 - 50 + 20 × 6

= 6 - 50 + 20 × 6

= 6 – 50 + 120

= 126 – 50

= 76 ≠ R.H.S

3. ÷ and –

Given equation: 24 ÷ 4 + 50 – 20 × 6 = 35

After interchanging the symbols, we get:

L.H.S = 24 - 4 + 50 ÷ 20 × 6

= 24 – 4 + 2.5 × 6

= 24 – 4 + 15

= 39 – 4

= 35 = R.H.S

4. ÷ and ×

Given equation: 24 ÷ 4 + 50 – 20 × 6 = 35

After interchanging the symbols, we get:

L.H.S = 24 × 4 + 50 – 20 ÷ 6

= 24 × 4 + 50 – 3.34

= 96 + 50 – 3.34

= 146 – 3.34

= 142.66 ≠ R.H.S

Hence, '÷ and –' is the correct answer.

Q33. Answer: (b) Joints

The logic is:

Farsightedness (hyperopia) is a common vision condition in which you can see distant objects clearly, but objects nearby may be blurry.

Similarly,

Gout is a painful form of arthritis. When your body has extra uric acid, sharp crystals may form in the big toe or other joints, causing episodes of swelling and pain called gout attacks. Gout usually affects the big toe, but it can occur in any joint.

Hence, 'Joints' is the correct answer.

Additional InformationHeart: The heart is a muscular organ in most animals, which pumps blood through the blood vessels of the circulatory system. The pumped blood carries oxygen and nutrients to the body, while carrying metabolic waste such as carbon dioxide to the lungs.

Liver: The liver is a large, meaty organ that sits on the right side of the belly. Weighing about 3 pounds, the liver is reddish-brown in color and feels rubbery to the touch. Normally you can't feel the liver, because it's protected by the rib cage. The liver has two large sections, called the right and the left lobes

Q34. Answer: (d) PTXBF

The pattern followed here is:

According to the alphabetical positions of the letters,

1. SWZDG → S + 4 = W; W + 3 = Z; Z + 4 = D; D + 3 = G

2. JNQUX → J + 4 = N; N + 3 = Q; Q + 4 = U; U + 3 = X

3. MQTXA → M + 4 = Q; Q + 3 = T; T + 4 = X; X + 3 = Z

4. PTXBF → P + 4 = T; T + 4 = X; X + 4 = B; B + 4 = F

Hence, 'PTXBF' is the correct answer.

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Q35. Answer: (d) Only conclusions II and III follow

The least possible Venn diagram is:

Conclusions:

I. All objects are teeth. → False (As, there is no definite relation between objects and teeth. Hence, false)

II. Some colours are teeth. → True (As, Some teeth are colours → Some colours are also teeth)

III. Some objects are colours. → True (As, Some colours are objects → Some objects are also colours)

Hence, Only conclusions II and III follow.

Q36. Answer: (a) 5-3-1-2-4

The correct option that indicates the arrangement of the given words in a logical and meaningful order is shown below:

The given terms are names of parts of human body, arranged in the order from head to toe.

5. Thalamus → The thalamus is a small structure within the brain located just above the brain stem between the cerebral cortex and the midbrain and has extensive nerve connections to both.

3. Eardrum → The eardrum is a thin piece of skin-like tissue that's stretched tight — like a drum — across the opening between the ear canal and the middle ear.

1. Tonsil → The tonsils (palatine tonsils) are a pair of soft tissue masses located at the rear of the throat (pharynx).

2. Naval → The navel (clinically known as the umbilicus, commonly known as the belly button) is a protruding, flat, or hollowed area on the abdomen at the attachment site of the umbilical cord.

4. Calf muscle → The calf is comprised of two muscles — the gastrocnemius and the soleus. These muscles meet at the Achilles tendon, which attaches directly to the heel. Any leg or foot motion uses these muscles.

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

Q37. Answer: (c) 852146509

The logic is:

For "LIABILITY"

Letter	L	I	A	B	I	L	I	T	Y
Code	9	5	0	7	5	9	5	1	3

For "PROCTOR"

Letter	P	R	O	C	T	O	R
Code	8	6	4	2	1	4	6

Similarly,

For "PICTORIAL"

Letter	P	I	C	T	O	R	I	A	L
Code	8	5	2	1	4	6	5	0	9

Hence, '852146509' is the correct answer.

Q38. Answer: (b) Brother

By using the symbols in the table given below, we can draw the following family tree:

Clearly, Asmit is the brother of Aditya.

Hence, 'Brother' is the correct answer.

Q39. Answer: (d) 141 : 193

The logic followed here is:

• Square of any even number - 3 = 1st number.

• Square of any even number - 3 = 2nd number.

• Gap of 2 between both even number.

For 61 : 97

Option 1 → 51 : 57

Option 2 → 39 : 67

Option 3 → 147 : 199

Option 4 → 141 : 193

Hence, "option 4" is the correct answer.

Q40. Answer: (b) [figure]

1) Some girls can either be athletes or students.
2) Some students can either be athletes or girls.
3) Some athletes can either be girls or students.

The Venn diagram that best represents the relationship between Girls, Athletes, and Students is shown below:

Hence, 'option 2' is the correct answer.

Q41. Answer: (b) Job

The description is as follows:

Option	Description	
1.	Carpenter	A person who makes and repairs wooden objects and structures.
2.	Job	A paid position of regular employment.
3.	Journalist	A person who writes for newspapers, magazines, or news websites or prepares news to be broadcast.
4.	Architect	A person who designs buildings and in many cases also supervises their construction.

Hence, 'Job' is the odd one out.

Q42. Answer: (c) JUN

The pattern followed here is:

According to the alphabetical positions of the letters,

Similarly,

Hence, 'JUN' is the correct answer.

Q43. Answer: (c) 15 litres and 25 litres

A drum contains 40 litres of milk.

One-fourth of the milk is taken out and replaced with water.

One-fourth of the milk = 1/4 × 40 litres

One-fourth of the milk = 10 litres

Milk left in drum is = (40 - 10) = 30 litres

And 10 litres of water was added.

Half of the mixture is taken out and replaced with water.

Half of 30 litres milk = 1/2 × 30 = 15 litres

And 15 litres of water was added.

The respective quantity of:

Milk left in the drum = (30 - 15) = 15 litres

Water left in the drum = (10 + 15) = 25 litres

Hence, '15 litres and 25 litres' is the correct answer.

Q44. Answer: (a) [figure]

The paper when unfolded will appear as shown below:

Hence, 'option 1' is the correct answer.

Q45. Answer: (a) RHXJX

The pattern followed here is:

According to the alphabetical positions of the letters,

Similarly,

Hence, 'RHXJX' is the correct answer.

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Q46. Answer: (b) 10

The number of triangles in the given figure is shown below:

Hence, '10' is the correct answer.

Q47. Answer: (c) 562

The logic followed here is:

643, 131 and 557 are the prime numbers and 562 is a non-prime number.

So 562 - option 3 is different from others.

Additional Information

Prime number - The number which is divisible by 1 and itself called a prime number. Exp - 2, 3, 5, 7...

1 is neither a prime nor a composite number.

Hence, "option 3" is the correct answer.

Q48. Answer: (a) [figure]

The correct mirror image of the given number cluster when a mirror is placed on its right side is shown below:

Hence, 'option 1' is the correct answer.

Q49. Answer: (a) (35, 31, 64)

The logic is:

Cube of (first number - second number) = third number

(14, 11, 27) → 14 - 11 = 3 and $3^3 = 27$

Similarly,

1. (35, 31, 64) → 35 - 31 = 4 and $4^3 = 64$
2. (25, 31, 36) → (25 - 31) = -6 and $-6^2 = 36$
3. (42, 39, 36) → (42 - 39) = 3 and $3^2 = 9$
4. (19, 11, 46) → (19 - 11) = 8 and $8^2 = 64$

Hence, '(35, 31, 64)' is the correct answer.

Q50. Answer: (b) Carpenter : Door

The logic is:

Mason : Floor → A mason is a person who is skilled at making things or building things with stone. A mason builds floor.

Similarly,

Carpenter : Door → Carpenter is a person who makes and repairs wooden objects and structures. A carpenter makes door.

Hence, 'Carpenter : Door' is the correct answer.

Q51. Answer: (d) 595/3456

Given:

$\sin\theta = 12/13$

Formula:

$\sin^2\theta + \cos^2\theta = 1$

Calculation:

$\Rightarrow \cos^2\theta = 1 - (12/13)^2 = 25/169$

$\Rightarrow \cos\theta = 5/13$

$\Rightarrow \cot\theta = \cos\theta/\sin\theta = (5/13)/(12/13) = 5/12$

Then,

$\Rightarrow [(12/13)^2 - (5/13)^2]/[2 \times 12/13 \times 5/13] \times (5/12)^2$

$\Rightarrow [119/169]/[120/169] \times 25/144$

$\Rightarrow 119/120 \times 25/144$

$\Rightarrow 595/3456$

Therefore $(\sin^2\theta - \cos^2\theta)/(2\cos\theta \sin\theta) \times \cot^2\theta$ ~ = 595/3456

Q52. Answer: (c) 55°

Given:

AB = AC

angle BEC = 35°
Calculation:
=> AB = AC
=>angle ACB = angle ABC
But, angle ACB + angle ACD = 180° ....(linear angles)
=> angle ACB = 180° - angle ACD
=> angle ACB = 180° - 2y
=> 2x = 180° - 2y
=> 2x + 2y = 180°
=> x + y = 90°
In ΔBEC, exterior angle equal to sum of exterior angles.
=> angle EBC + angle BEC = angle ECD
=> x + 35° = y
=> y - x = 35°
Solving,
=> y = 62.5° and x = 27.5°
Therefore angle ABC = 2x = 2 × 27.5 = 55°

Q53. Answer: (c) 3

Given:
$(\cos^2\theta - 1)(2\sec^2\theta) + \sec^2\theta + 2\tan^2\theta = 2$
Formula:
=> $\sin^2\theta + \cos^2\theta = 1$
=> $1 + \tan^2\theta = \sec^2\theta$
Calculation:
$(\cos^2\theta - 1)(2\sec^2\theta) + \sec^2\theta + 2\tan^2\theta = 2$
=> $(-\sin^2\theta).2\sec^2\theta + \sec^2\theta + 2\tan^2\theta = 2$
=> $-2\tan^2\theta + 1 + \tan^2\theta + 2\tan^2\theta = 2$
=> $\tan^2\theta = 1$
=> $\tan\theta = 1$
Therefore $\theta = 45°$ as $0° < \theta < 90°$
Then,
$(\sec\theta + \sin\theta)/(\text{cosec}\,\theta - \cos\theta)$
=> $(\sec45° + \sin45°)/(\text{cosec}45° - \cos45°)$
=> $(\sqrt{2} + 1/\sqrt{2})/(\sqrt{2} - 1/\sqrt{2})$
=> $(2 + 2 + 1/2)/(2 - 1/2)$
=> $(9/2)/(3/2)$
=> 3
Therefore $(\sec\theta + \sin\theta)/(\text{cosec}\,\theta - \cos\theta) = 3$

Q54. Answer: (a) √ 70 cm

Given:
angle B = 90°
AC = 10 cm
AD = √55 cm
Calculation:
In right angled triangle ABC,
Using pythagoras theorem,
=> $AC^2 = AB^2 + BC^2$
In right angled triangle ABD,
=> $AD^2 = AB^2 + BD^2$
=> $AD^2 = AB^2 + BC^2/4$ ...(1)

In right angled triangle CBE,

=> $CE^2 = BE^2 + BC^2$

=> $CE^2 = AB^2/4 + BC^2$ ....(2)

Adding 1 and 2,

=> $AD^2 + CE^2 = AB^2 + BC^2/4 + AB^2/4 + BC^2$

=> $AD^2 + CE^2 = 5/4 \times (AB^2 + BC^2)$

=> $AD^2 + CE^2 = 5/4 \times AC^2$

=> $CE^2 = 5/4 \times 10^2 - (\sqrt{55})^2$

Therefore CE = $\sqrt{70}$ cm

Q55. Answer: (d) 39.46%

Calculation:

=> $180 \times (100 - x)/100 = 60 \times (100 + x)/100$

=> $18000 - 180x = 6000 + 60x$

=> $x = 50$

But,

=> 50% of 410 = $50/100 \times 410 = 205$

=> (50 + 20)% of 210 = $70/100 \times 210 = 147$

Therefore Required percentage = $(205 - 147)/147 \times 100 = 39.46\%$

Q56. Answer: (a) 60

Alternate MethodLet the number men be x.

Number of days in the second case = 54 + 18 = 72

$54 \times x = 72 \times (x - 15)$

=> $54x = 72x - 1080$

=> $18x = 1080$

=> $x = 60$

Traditional method:

Given:

Certain people can complete work in = 54 days.

Calculation:

Let certain number of people be N.

N people's 1 day's work = 1/54

1 people 1 day's work = 1/54N

For (N - 15) people = work will be completed in 72 days

(N - 15) people's 1 day's work = 1/72

For this case, 1 people 1 day's work = 1/[72(N - 15)]

Then,

=> $1/54N = 1/[72(N - 15)]$

=> $72N - 1080 = 54N$

=> $N = 60$

Therefore Initially, there are 60 persons.

Q57. Answer: (d) 4

Alternate MethodThe value of a, b and c will be calculated as following -

See the expression in right hand side. Divide the respective factors by 2.

=> a = factor of a in right hand side/2 = 2/2 = 1

=> $4b = -4/2$ => $2b = -1$ => $b = -1/2$

=> $25c = 40/2 = 20$ => $c = 4/5$

Now,

=> $a + 2b + 5c$

=> $1 - 1 + 4 = 4$

Therefore $(a + 2b + 5c) = 4$

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Traditional method:

Given:

$a^2 + 4b^2 + 25c^2 + 18 = 2 (a - 2b + 20c)$

Formula:

$a^2 + b^2 + c^2 = (a + b + c)^2 - 2(ab + bc + ac)$

Calculation:

=> $a^2 + 4b^2 + 25c^2 + 18 = 2(a - 2b + 20c)$

=> $a^2 + 4b^2 + 25c^2 - 2a + 4b - 40c + 18 = 0$

=> $(a^2 - 2a + 1) + (4b^2 + 4b + 1) + (25c^2 - 40c + 16) = 0$

=> $(a - 1)^2 + (2b + 1)^2 + (5c - 4)^2 = 0$

$a - 1 = 0, 2b + 1 = 0, 5c - 4 = 0$

$a = 1, b = -1/2$ and $c = 4/5$

Then,

=> ? = $a + 2b + 5c$

=> ? = $1 - 1 + 4 = 4$

Therefore $(a + 2b + 5c) = 4$

Q58. Answer: (b) -12

Given:

$x + y + z = 4, xy + yz + zx = 1$ and $x^3 + y^3 + z^3 = 34$

Formula:

$a^3 + b^3 + c^3 - 3abc= (a + b + c)((a + b + c)^2 - 3(ab + bc + ca))$

Calculation:

=> $x^3 + y^3 + z^3 - 3xyz = (x + y + z)((x + y + z)^2 - 3(xy + yz + xz))$

=> $34 - 3xyz = 4 \times (16 - 3)$

=> $3xyz = 34 - 52$

=> $3xyz = -18$

=> $xyz = -6$

Therefore $2xyz = -6 \times 2 = -12$

Q59. Answer: (d) 5

Shortcut TrickSolve it by unit digit.

Unit digit of average is 1. The unit digit of the sum = $1 \times 5 = 5$

=> $5 + 5 + 5 + x + 6 = 5$

=> Unit digit of $21 + x = 5$

=> $1 + x = 5$

=> $x = 4$

Then,

Total sum of $x - 1, x - 3, x + 3$ and $x + 5 = (4 - 1) + (4 - 3) + (4 + 3) + (4 + 5) = 3 + 1 + 7 + 9 = 20$

Therefore Average of $x - 1, x - 3, x + 3$ and $x + 5 = 20/4 = 5$

Traditional method:

Given:

Average of 335, 2x5, x35, 63x and 406 = 411

Formula:

Average = (Sum of terms)/(Number of terms)

Calculation:

Total of 335, 2x5, x35, 63x and 406 numbers = $411 \times 5 = 2055$

=> $335 + 2x5 + x35 + 63x + 406 = 2055$

=> $300 + 30 + 5 + 200 + 10x + 5 + 100x + 30 + 5 + 600 + 30 + x + 400 + 0 + 6 = 2055$

=> $1611 + 111x = 2055$

=> $x = 4$

Then,

Total sum of x - 1, x - 3, x + 3 and x + 5 = (4 - 1) + (4 - 3) + (4 + 3) + (4 + 5) = 3 + 1 + 7 + 9 = 20

Therefore Average of x - 1, x - 3, x + 3 and x + 5 = 20/4 = 5

Q60. Answer: (b) 5 hours 20 minutes

Alternate MethodLet the speed of boat and current be a and b.

=> a - b = 55/5 = 11 km/hr

=> a + b = 75/3 = 25 km/hr

=> 2a = 36 km/hr

=> a = 18 km/hr

Time = 96/18 = 5 hours 20 minutes

Therefore The required time is 5 hours 20 minutes.

Traditional method:

Given:

Upstream speed = 55/5 = 11kmph

Downstream speed = 75/3 = 25 kmph

Formula:

Speed of boat in still water = 1/2 × (downstream speed + upstream speed)

Calculation:

Speed of boat in still water = 1/2 × (25 + 11) = 18 kmph

Distance = 96 km

Time taken by boat in still water = 96/18 = 5 hours + 6/18 × 60 minute = 5 hours + 20 minutes

Therefore Time taken to row in still water is 5 hours and 20 minutes.

Q61. Answer: (d) 40√ 55

Given:

Sides of triangular field = 96m, 110m and 146m

Formula:

Area of triangle = √[s(s - a)(s - b)(s - c)

where s = (a + b + c)/2

Area of rectangle = length × breadth

Calculation:

s for triangular field = (96 + 110 + 146)/2 = 176m

Area of triangular field = √[176 × (176 - 96)(176 - 110)(176 - 146)] = √[176 × 80 × 66 × 30] = 5280 sq.m

Area of rectangular field = 5280 sq.m

Let length and breadth of rectangular field be 3a and 2a respectively.

=> 3a × 2a = 5280

=> a = 4√55 m

Length and breadth of rectangular field = 12√55m and 8√55m respectively.

Therefore Perimeter of rectangular field = 2 × (12√55 + 8√55) = 40√55 m

Alternate Method

Given:

Sides of triangular field = 96m, 110m and 146m

Formula:

Area of right triangle = 1/2 × base × height

Area of rectangle = length × breadth

Calculation:

Using Pythagoras theorem,

=> $146^2 = 96^2 + 110^2$

Then, triangle is right angled triangle.

Area of triangular field = 1/2 × 96 × 110 = 5280 m^2

Area of rectangular field = 5280 m^2

Let length and breadth of rectangular field be 3a and 2a respectively.

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=> 3a × 2a = 5280

=> a = 4√55 m

Length and breadth of rectangular field = 12√55m and 8√55m respectively.

Therefore Perimeter of rectangular field = 2 × (12√55 + 8√55) = 40√55 m

Q62. Answer: (a) 102.5

Given:

angle ADB = 25

Calculation:

In OADB,

=> angle O + angle A + angle D + angle B = 360

=> angle O = 360° - 90° - 90° - 25° = 155°

The angle subtended by the arc AB at the centre of the circle is twice that subtended on circumference.

Let P be the point on major arc.

=> angle O = 2angle APB

=> angle APB = 77.5°

Then,

PACB is a cyclic quadrilateral.

=>angle APB + angle ACB = 180°

Therefore angle ACB = 180° - 77.5° = 102.5°

Q63. Answer: (d) 8

Given:

? = (55/6÷ 31/2 of 10/21) ÷ (3/4 ÷ 11/2 of 4/5 - 4/5 × 1/2) of 35/18

Concept:

Calculation:

=> (55/6÷ 31/2 of 10/21) ÷ (3/4 ÷ 11/2 of 4/5 - 4/5 × 1/2) of 35/18 ~

=> (35/6 ÷ 7/2 × 10/21) ÷ (3/4 ÷ 3/2 × 4/5 - 4/5 × 1/2) × 35/18

=> (7/2) ÷ (5/8 - 4/10) × 35/18

=> 7/2 ÷ 9/40 × 35/18

=> 7/2 × 16/7

=> 8

Therefore (55/6÷ 31/2 of 10/21) ÷ (3/4 ÷ 11/2 of 4/5 - 4/5 × 1/2) of 35/18 ~ = 8

Q64. Answer: (c) 2

Shortcut TrickBy observation:

Option (1) and (2) can't be the answer as the value of cosec θ is always greater and equal to 1 or less and equal to -1.

Let cosec θ = 2, θ = 30°

Put this value in the equation,

3(sec230 + tan230) = 5,

=> 3(4/3 + 1/3) = 5

=> 5 = 5

The equation is satisfied.

Therefore The value of cosec θ is 2.

Alternate MethodGiven:

3(sec²θ + tan²θ) = 5

Formula:

sec²θ = 1 + tan²θ

Calculation:

=> 3(sec²θ + tan²θ) = 5

=> 3(1 + tan²θ + tan²θ) = 5

=> 3 (1 + 2tan²θ) = 5

=> 1 + 2tan2θ = 5/3

=> 2tan2θ = 5/3 - 1

=> 2tan²θ = 2/3

=> tanθ = 1/√3

=> θ = 30° as 0° < θ < 90°

Then,

Therefore cosec 30° = 2

Q65. Answer: (a) 26.7%

Calculation:

Total consumption of coffee in state D from 2014 to 2016 = 105 + 140 + 144 = 389 hundred tonnes

Total consumption of coffee in states A, B, C and E in 2015 = 122 + 138 + 150 + 120 = 530 hundred tonnes

Therefore Required percentage = (530 - 389)/530 × 100 = 26.70%

Q66. Answer: (b) 15 : 12 : 20

Given:

A : B is 5 : 4 and B : C is 3 : 5

Calculation:

We have do B unit equal for both the ratio,

A : B = 5 : 4

A : B = 15 : 12 [multiplied by 3]

Then,

B : C = 3 : 5

B : C = 12 : 20 [multiplied by 4]

So, A : B : C = 15 : 12 : 20

Therefore A : B : C = 15 : 12 : 20

Q67. Answer: (b) 2776400

Concept:

Divisibility test 8 = If the last three digits of a number are divisible by 8, then the number is completely divisible by 8.

Divisibility test 11 = If the difference of the sum of alternative digits of a number is divisible by 11, then that number is divisible by 11 completely.

Calculation:

Number to be divisible by 88 means it should be divisible by both 8 and 11.

From options:

1) 2776408

408 is divisible by 8.

but the difference of the sum of alternative digits of a number is not divisible by 11 so this number is not divisible by 88.

2) 2776400

400 is divisible by 8.

And, the difference of the sum of alternative digits of a number is divisible by 11, so this number is divisible by 88.

3) 2767416

416 is divisible by 8.

but the difference of the sum of alternative digits of a number is not divisible by 11 so this number is not divisible by 88.

4) 2767440

440 is divisible by 8.

but the difference of the sum of alternative digits of a number is not divisible by 11 so this number is not divisible by 88.

Therefore 2776400 is divisible by 88.

Q68. Answer: (d) 322

Shortcut Trick

If x + 1/x = n then x³ + 1/x³ = n³ - 3n

x3 + 1/x3 = n3 - 3n

=> 7³ - 7 × 3

=> 322

Therefore The required value is 322.

Alternate Method

Given:

$x + 1/x = 7$

Formula:

$(a^3 + b^3) = (a + b)(a^2 - ab + b^2)$

$(a + b)^2 = (a^2 + b^2 + 2ab)$

Calculation:

$\Rightarrow (x + 1/x)^2 = (x^2 + 1/x^2 + 2)$

$\Rightarrow x^2 + 1/x^2 = 49 - 2 = 47$

Then,

$(x^3 + 1/x^3) = (x + 1/x)(x^2 - 1 + 1/x^2)$

$= 7 \times (47 - 1)$

$= 322$

Therefore $(x^3 + 1/x^3) = 322$

Q69. Answer: (c) 15 : 13

Calculation:

Total number of students who scored marks in the class intervals 10 - 15 and 15 - 20 taken together = 7 + 8 = 15

Total number of students who scored marks in the class intervals 5 - 10 and 25 - 30 taken together = 8 + 5 = 13

Therefore Required ratio = 15 : 13

Q70. Answer: (c) 7,986

Given:

Down payment = Rs.60000

Formula:

Let P = Principal, R = Rate of interest and N = time

Compound interest = $P(1 + R/100)^n - P$

Calculation:

Amount to be paid in installments = 79860 - 60000 = Rs.19860

Let each installment be of Rs.a

$\Rightarrow 19860 = a/(1 + 10/100) + a/(1 + 10/100)^2 + a/(1 + 10/100)^3$

$\Rightarrow a = 19860 \times 1331/3310$

$\Rightarrow a = 7986$

Therefore Amount of each installment is Rs.7986.

Q71. Answer: (a) 22

Given:

Marked price = Rs.300

Three discounts = 20%, x% and 5%

Selling price = Rs.177.84

Calculation:

Discounted price = 300 - 177.84 = Rs.122.16

Single equivalent discount = $100 - 100 \times (100 - 20)/100 \times (100 - x)/100 \times (100 - 5)/100$

$= 100 - 100 \times 80/100 \times (100 - x)/100 \times 95/100$

$= 100 - 76 + 0.76x$

$= 24 + 0.76x$

Then,

$\Rightarrow 122.16 = 300 \times (24 + 0.76x)/100$

$\Rightarrow 0.76x = 16.72$

$\Rightarrow x = 22$

Therefore The value of x is 22.

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Alternate MethodCalculation:

Discount	M.P	S.P
20%	5	4
x%	x	y
5	20	19
overall	300	177.84

So,

=> x : y = 50 : 39

Discount % = (11/50) × 100 = 22%

Therefore The correct answer is 22%.

Q72. Answer: (a) 202.5

Given:

Profit of one computer on type A = Rs. 2500

Profit of one computer on type B = Rs. 3000

Calculation:

Total sales of type A in February = 180 × 3/20

=> 27

Total sales of type B in June = 450 × 1/10

=> 45

Total profit = 27 × 2500 + 45 × 3000

=> 67,500 + 1,35,000

=> Rs. 2,02,500 i.e Rs. 202.5 (in thousands)

Therefore Total profit on sale is Rs. 202.5 (in thousands)

Q73. Answer: (a) 14 : 15

No. of computers of type A sold in February = 180

No. of computers of type A sold in April = 275

No. of computers of type A sold in June = 245

Total no. of computers of type A in three months = 180 + 275 + 245

=> 700

No. of computers of type B sold in April = 325

No. of computers of type B sold in May = 425

Total no. of computers of type B in two months = 325 + 425

=> 750

Ratio = 700 : 750

=> 14 : 15

Therefore Required ratio of type A and type B computers is 14 : 15

Q74. Answer: (a) Rs. 369

Given:

Profit % = 20%

Formula:

Profit% = (SP - CP)/CP × 100

Calculation:

=> 5 × 12 = 60 = 222 × 5 = Rs.1110

=> 6 × 10 = 60 = 225 × 6 = Rs.1350

Total number of Notebook = 120

Total cost price of all Notebook = 1110 + 1350 = Rs.2460

Then,

=> 20 = (SP - 2460)/2460 × 100

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=> SP = 2952

The selling price of 120 Notebooks = 2952

Selling price of 1 Notebook = 2952/120 = Rs.24.6

Therefore Selling price of 15 Notebook = 24.6 × 15 = Rs.369

Alternate MethodGiven the price of 1st notebook = 222 for 12

Price of one notebook = 18.5 Rs

Given the price of 2nd notebook = 225 for 10

Price of one notebook = 22.5 Rs

Since the number of notebooks purchased is fixed thus

Average cost price will be = (18.5 +22.5)/2 = 20.5

Since it is making a profit of 20%

thus selling price of each notebook will be

1.2CP = 1.2 × 20.5 = Rs 24.6

thus selling price of 15 notebooks will be = 15 × 24.6 = 369

Q75. Answer: (c) 171°

Given:

PQRS is a cyclic quadrilateral.

Calculation:

=> angle P + angle R = 180°

=> angle 4R + angle R = 180°

=> angle R = 36°

=> angle P = 144°

Then,

=> angle Q + angle S = 180°

=> angle Q + angle 3Q = 180°

=> angle Q = 45°

=> angle S = 135°

Therefore angle S + angle R = 135° + 36° = 171°

Q76. Answer: (d) Copper

The correct answer is Copper.

Key Points

• Copper reacts with moist air and slowly loses its shiny brown surface and gains a green coat (or another colour depending on which component of air it reacts with).

• This process is called corrosion, which is a process that occurs when a metal is attacked by substances around it such as air, moisture, acids, etc.

• Copper

• Copper is a chemical element with the symbol Cu

• Its atomic number is 29.

• Copper is used as a conductor of heat and electricity.

• It is a soft, malleable, and ductile metal with very high thermal and electrical conductivity.

• Copper is one of the few metals that can occur in nature in a directly usable metallic form.

Additional Information

• Silver

• Silver is a chemical element with the symbol Ag.

• Its atomic number is 47.

• It is a soft, white lustrous transition metal.

• Most silver is produced as a byproduct of copper, gold, lead, and zinc refining.

• Zinc

• Zinc is a chemical element with the symbol Zn.

• Its atomic number is 30.

• Zinc is a slightly brittle metal at room temperature and has silvery-greyish.

• Zinc is refined by froth flotation of the ore, roasting, and final extraction using electricity.

• Iron

• Iron is a chemical element with the symbol Fe.

• Its atomic number is 26.

• It is a metal that belongs to the first transition.

• It is the fourth common element in the Earth's crust.

Q77. Answer: (a) 1971

The correct answer is 1971.

Key Points

• On the night of 25th March 1971 Bangladesh get independence from Pakistan.

• Bangladesh Liberation War

• The Bangladesh Liberation War was a revolution and armed conflict sparked by the rise of the Bengali nationalist and self-determination movement in what was then East Pakistan during the 1971 Bangladesh genocide.

• The war began the Pakistani military junta based in West Pakistan launched Operation Searchlight against the people of East Pakistan on the night of 25 March 1971.

• The language Movement was started in 1948 meant to assert the rights of the Bengali-speaking population of Pakistan and also for the equal status of Bengali with Urdu, which alone was declared as Pakistan's federal language.

• After the general elections in Pakistan in 1970, Mujibur Rahman's Awami League won a clear majority. But the military in Pakistan was opposed to him becoming the country's supremo.

• The military government of Yahya Khan was unwilling to give up power to Mujib Bengali nationalism was on the rise.

• On the night of 25th March 1971, the Pakistani army started the now-infamous "Operation Searchlight" in which they killed students, intellectuals, and civilians in Bangladesh. Thousands of Bengali women were raped by the Pakistani army. The idea was to brutally crush the Bengali resistance.

• It commemorates the country's declaration of independence from Pakistan in the early hours of 26 March 1971 by the leader of the Nation Sheikh Mujibur Rahman.

Q78. Answer: (c) Meira Kumar

The correct answer is Meira Kumar.

Key Points

• Indian Parliamentary Diplomacy

• Former Lok Sabha speaker Meira Kumar is the author of "Indian Parliamentary Diplomacy- Speaker's Perspective".

• The book features an account of parliamentary diplomacy and its role in furthering foreign policy and strengthening international relations.

• It is also a collection of select speeches and reports by Kumar during her stint as Lok Sabha speaker and as leader of Indian parliamentary delegations at several international fora.

• Meira Kumar

• Meira Kumar is an Indian politician(INC) and former diplomat.

• She was the mInister of Social Justice and Empowerment from 2004 to 2009 and she was the 15th Speaker of Lok Sabha from 2009 to 2014.

• She became just the second woman to be nominated for president of India by a major political bloc when she secured the United Progressive Alliance's nomination in 2017.

• She was also a 5-time Member of Parliament.

• Her book entitled "Indian Parliamentary Diplomacy-Speaker's Perspective" was released on 19 March 2015.

Additional Information

• Om Birla

• Om Birla is an Indian politician.

• He is the 17th and current speaker of the Lok Sabha.

• He belongs to the Bhartiya Janata Party.

• He serves as a Member of Parliament for the Kota-Bundi constituency in Rajasthan.

• He was elected thrice to the assembly of Rajasthan.

• Balram Jhakar

• Balram Jakhar was an Indian politician.

• He served as the Speaker of the Lok Sabha and Governor of Madhya Pradesh.

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• He was also the longest-serving Speaker of the Lok Sabha.
• Shivraj Patil
• He is an Indian politician who was the Minister of Home Affairs of India, from 2004 to 2008 and the 10th Speaker of the Lok Sabha from 1991 to 1996.
• He was Governor of the state of Punjab and Administrator of the Union Territory of Chandigarh from 2010 to 2015.
• He was served in the Indira Gandhi and Rajiv Gandhi cabinets as Minister of Defence during the 1980s.

Q79. Answer: (c) Kathakali

The correct answer is Kathakali.

Key Points

• Kottakkal Sivaraman
• Kottakkal Sivaraman was a performing artist.
• He revolutionized the portrayal of female roles in Kathakali, the classical dance-drama from Kerala in southern India.
• Kathakali
• The classical dance form Kathakali originates primarily from the Indian state of Kerala.
• Kathakali is a blend of dance, music, and acting and dramatizes stories, which are mostly adapted from the Indian epics.
• The dancer expresses himself through codified hasta mudras and facial expressions, closely following the verses that are sung.
• The characters in a kathakali performance are broadly divided into Satvika, Rajasika, and Tamika.

Additional Information

• Odissi
• Odissi is a dance form from the state of Odisha in eastern India.
• It is recognized as one of the eight classical dance forms of India.
• Mohiniyattam
• Mohiniyattam is an Indian classical dance form that evolved in the state of Kerala, India.
• It is counted among the two popular dance arts of the state, the other being kathakali.
• Mohiniyattam literally interpreted as the dance of 'Mohini', the celestial enchantress of the Hindu mythology,
• Bharatanatyam
• Bharatanatyam is a pre-eminent Indian classical dance form presumably the oldest classical dance heritage of India is regarded as the mother of many other Indian classical dance forms.
• It is initiated in the Hindu temples of Tamil Nadu and eventually flourished in South India.

Q80. Answer: (c) Haridwar

The correct answer is Haridwar.

Key Points

• Kumbh Mela 2021 was organized at Haridwar, Uttarakhand.
• Kumbh Mela 2021 was held for only 30 days, from April 1 to 30 this year in view of the COVID-19 pandemic.
• Kumbh Mela
• Kumbh Mela is a religious festival that is celebrated four times over the course of 12 years, the site of the observance rotating between four pilgrimage places on four sacred rivers at Haridwar on the Ganges River, at Ujjain on the Shipra, at Nashik on the Godavari, and at Prayagraj.
• The festival is traditionally credited to the 8th century Hindu Philosopher and saint Adi Shankara.
• It is considered the "World's largest congregation of religious pilgrims".
• It has been inscribed on the UNESCO'sRepresentative List of Intangible Cultural Heritage of Humanity.
• The Kumbh Mela authorities said that the largest one-day attendance at the Kumbh Mela was 30 million on 10 February 2013.

Q81. Answer: (d) Diabetes

The correct answer is Diabetes.

Key Points

• Hygiene
• Hygiene is a series of practices performed to preserve health.
• Hygiene refers to conditions and practices that help to maintain health and prevent the spread of diseases.
• Personal refers to maintaining the body's cleanliness.
• Diabetes

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• Diabetes is a disease that occurs when your blood sugar is too high.
• Blood Sugar is your main source of energy and comes from the food you eat.
• Insulin, a hormone made by the pancreas helps glucose from food get into your cells to be used for energy.
• Sometimes your body doesn't make enough.
• Diabetes has no cure, you can take steps to manage your diabetes and stay healthy.
• Over time, high blood glucose leads to problems such as heart disease, stroke, kidney disease, eye problems, dental disease, nerve damage, foot problems.

Additional Information

• Trachoma
• Trachoma is a disease of the eye caused by infection with the bacterium Chlamydia trachomatis.
• Blindness from trachoma is irreversible.
• It is a public health problem in 44 countries and is responsible for the blindness or visual impairment of about 1.9 million people.
• Buruli ulcer
• Buruli ulcer is a disease caused by the bacterium Mycobacterium ulcerans.
• It mainly affects the skin but can also affect the bone.
• Cases are generally seen in the tropics, primarily in West Africa and Australia.
• Infection often leads to ulcers on the arms or legs, which can also destroy skin or soft tissue.
• Schistosomiasis
• Schistosomiasis is a disease caused by parasitic flatworms called schistosomes.
• The urinary tract or the intestines may be infected.
• Symptoms include abdominal pain, diarrhea, bloody stool, or blood in the urine.

Q82. Answer: (c) Bajrang Punia

The correct answer is Bajrang Punia.

Key Points

• On 10th December 2020 Federation of Indian Commerce and Industry virtually presented India Sports Awards 2020, to sports personalities for their outstanding contributions in the field of sports.
• Wrestler Bajrang Punia and Shooter Elavenil Valarivan received the highest honour "Sportsperson of the Year of Men & Female" Award respectively.
• FICCI (Federation of Indian Chambers of Commerce & Industry)
• The sports awards are an attempt by the industry body, Federation of Indian Commerce and Industry (FICCI) to acknowledge and recognize the contribution of sportspersons and various stakeholders who deliver excellent results throughout the year.
• It is Established in 1927.
• President- Sanjiv Mehta(As of September 2022)
• Headquarter - New Delhi, Delhi
• Bajrang Punia
• Bajrang Punia is an Indian freestyle wrestler.
• He competes in the 65-kg weight category.
• At the 2020 Tokyo Olympics, Punia won a bronze medal by defeating Kazakhstan's Daulet Niyabekov with a wide 8-0 margin.
• Punia is the only Indian wrestler to win 3 medals at the World Wrestling Championship.

Q83. Answer: (b) Uttar Pradesh

The correct answer is Uttar Pradesh.

Key Points

• One District-One Product scheme
• It is first started by the Uttar Pradesh government.
• ODOP is aimed at giving a major push to traditional industries synonymous with the respective districts of the state.
• The objective of the ODOP is to optimize production, productivity, and income, preservation and development of local crafts, promotion of art, improvement in product quality, and skill development.
• ODOP is basically a Japanese business development concept, which gained prominence in 1979.
• The main objectives of the One District One Product Scheme of Uttar Pradesh are as follows:
• Preservation and development of local crafts/skills and promotion of the art.
• Increase in the incomes and local employment.

• Improvement in product quality and skill development.
• Transforming the products in an artistic way.
• To connect production with tourism.
• To resolve the issues of economic difference and regional imbalance.
• To take the concept of ODOP to the national and international level after successful implementation at the State level.

Q84. Answer: (b) Vijayanagara empire

The correct answer is the Vijayanagara empire.

Key Points

• Harihara I
• IN 1336 A.D. Harihara I became the ruler of the Sangama Dynasty
• He captured Mysore and Madurai.
• IN 1356 A.D. Bukka-I succeeded him
• Vijayanagara empire
• Harihara and Bukka are the founders of the Vijayanagar City in 1336 A.D. on the southern banks of Tungabhadra.
• They made Hampi the capital city.
• They served under Vira Ballala III, the Hoysala king.
• It stretched from the river Krishna in the north to the extreme south of the peninsula.
• The Vijayanagar Empire was ruled by four important dynasties: Sangama, Saluva, Tuluva, and Aravidu.

Additional Information

• Kushan Empire
• The Kushana Empire or Kushan Dynasty was established by Kujula Kadphises.
• It was an Indo-European nomadic tribe earlier and was formed by Yuezhi, a group of some Chinese.
• Chera Empire
• The Chera dynasty was one of the principal lineages to have ruled over southern India in early history.
• Cheras controlled the central and northern parts of Kerala and the Kongu region of Tamil Nadu and was a prosperous kingdom owing to its trade with the Romans.
• The Chera, Cholas, and Pandyas were the most powerful three kingdoms to have ruled during the Sangam Age.
• Maratha Empire
• The Maratha Empire dominated a large part of the Indian subcontinent in the 17th century.
• The empire formally existed from 1674 with the coronation of Chattrapati Shivaji Maharaj and ended in 1818 with the defeat of Peshwa Bajirao II at the hands of the British East India Company.

Q85. Answer: (d) ICICI Bank

The correct answer is ICICI Bank.

Key Points

• Infinite India Platform
• ICICI Bank announced the launch of an online platform for foreign companies looking to establish or expand business in the country called 'Infinite India'.
• The platform offers them banking solutions as well as value-added services.
• The 'Infinite India' platform offers significant convenience to foreign companies, as it eliminates the need of coordinating with multiple touchpoints leading to a hassle-free experience of doing business in India.
• The platform offers them banking solutions as well as value-added services such as the incorporation of a business entity, corporate filings, licences and registrations, HR services, compliances and taxation among others.
• ICICI Bank
• ICICI Bank Limited is an Indian financial services company with its registered office in Vadodara, Gujarat, and corporate office in Maharashtra.
• The bank has a network of 5,275 branches and 15,589 ATMs across India and has a presence in 17 countries.
• ICICI Bank was established by the Industrial Credit and Investment Corporation of India (ICICI), an Indian financial institution, as a wholly-owned subsidiary in 1994 in Vadodara.
• Managing Director and CEO: Sandeep Bakhshi

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Q86. Answer: (b) Real-time operating system

The correct answer is a Real-time Operating system.

Key Points

• Real-time operating system

• Real-time operating systems are used in environments where a large number of events, mostly external to the computer system, must be accepted and processed in a short time within certain deadlines.

• The processing in this type of system must occur within the specified constraints.

• Examples of the real-time operating systems: Airline traffic control systems, Command Control Systems, Airlines reservation system, Heart Peacemaker, Network Multimedia Systems, Robot, etc.

Additional Information

• Distributed operating system

• A distributed operating system is an essential type of operating system.

• They use many central processors to serve multiple real-time applications and users.

• It connects multiple computers via a single communication channel.

• They are also known as loosely coupled systems.

• Time-sharing operating system

• A time-sharing operating system allows multiple users to share computers simultaneously.

• A time-sharing operating system uses CPU scheduling and multi-programming to provide each with a small portion of a shared computer at once.

• Examples of time Sharing are Multics, Unix.

• Interactive operating system

• An interactive operating system is one that allows the user to directly interact with the operating system whilst one or more programs are running.

• Both the UNIX operating system and DOS (Disk Operating System) are classic examples.

Q87. Answer: (d) centripetal

The correct answer is centripetal.

Key Points

• Drainage Pattern

• A drainage pattern is a pattern formed by the streams, rivers, and lakes in a particular drainage basin.

• They are governed by the topography of the land, whether a particular region is dominated by hard or soft rocks, and the gradient of the land.

• Centripetal

• The centripetal drainage pattern is formed when rivers discharge their waters from all directions into a lake or a depression.

• In a low-lying basin, the streams converge from all sides.

• Examples: streams of Ladakh, Tibet, and the Bagmati and its tributaries in Nepal.

Additional Information

• Dendritic

• This is an irregular tree branch-shaped pattern.

• Drainage is branching or ramifying thereby giving the appearance of a tree.

• A dendritic pattern develops in a terrain that has uniform lithology, and where faulting and jointing are insignificant.

• Examples: Indus, Godavari, Mahanadi, Cauvery, Krishna.

• Radial

• The tributaries from a summit follow the slope downwards and drain down in all directions.

• Examples: Streams of the Saurashtra region, Central French Plateau, Mt. Kilimanjaro.

• Trellis

• In this type of pattern, the short subsequent streams meet the mainstream at right angles, and differential erosion through soft rocks paves the way for tributaries.

• Examples: The old folded mountains of the Singhbhum (Chotanagpur Plateau) and the Seine and its tributaries in the Paris basin (France) have drainage of trellis pattern.

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Q88. Answer: (d) Kerala

The correct answer is Kerala.

Key Points

• Snake boat race

• The snake boat race gets its name from the shape of the boat used for racing. It is held in the months of August and September.

• It is a long canoe-style boat that is used by the people in Kerala to participate in the racing competitions in the backwaters.

• This is a historical war boat of Kerala which is about 100-120 ft long and can hold up to about 100 rowers.

• Snake boat is the pride of the villages in this region and every village has snake boats of its own.

• Snake Boat Race has been associated with the state for over 400 years now.

• The story of this boat race has been traced to the ancient king, Alleppey, who was known for fighting battles with the kings of nearby regions along the canals.

• Every year the boats are oiled mainly with fish oil, coconut shell, and carbon to keep the wood strong and the boat slippery in the water.

Additional Information

• Kerala

• Chief Minister - Pinarayi Vijayan (As of May 2023)

• Governor- Arif Mohammad Khan (As of May 2023)

• State Bird - Great Hornbill

• State Animal - Indian Elephant

• State Tree - Coconut Tree

• State Flower - Kanikonna

• State Parks - Anamudi Shola National Park, Eravikulam National Park, Pambadum Shola National Park, Periyar National Park, Silent Valley National Park.

Q89. Answer: (d) Bihar

The correct answer is Bihar.

Key Points

• Bihar was a major producer of jute in 2017-18 as per the Ministry of Textiles, Government of India.

• Ministry of Textiles and Industry

• In 2000, the Government of India passed the National Textile Policy.

• The major functions of the Ministry of Textiles are formulating policy and coordination of man-made fibre, cotton, jute, silk, wool industries, decentralization of power loom sector, promotion of exports, planning & economic analysis, and promoting the use of information technology.

• Current Minister of Textiles: Piyush Goyal(November 2021)

• The Ministry of Textiles is an Indian government national agency responsible for the formulation of policy, planning, development, export promotion, and regulation of the textile industry in India.

Q90. Answer: (a) 24 January 1950

The correct answer is 24 January 1950.

Key Points

• 24 January 1950: Last meeting of the Constituent Assembly. 'Constituent of India'(with 395 articles, 8 schedules, 22parts) was signed and accepted by all.

• Constituent Assembly

• The Constituent Assembly met for the first time in New Delhi on 9 December 1946 in the Constitution Hall which is now known as the Central Hall of Parliament House.

• The Constituent Assembly took almost three years (two years, eleven months and 18 days) to complete its historic task of drafting the Constitution for Independent India.

• The idea of a constituent assembly was put forward for the first time by MN Roy.

• In 1935, the Indian National Congress for the first time, officially called for a constituent assembly to frame a constitution for India.

• The demand for a constituent assembly was accepted for the first time by the British through their 'August offer' of 1940.

• Constituent Assembly was established under the provisions of the Cabinet Mission plan.

• Temporary president in the first meeting: Dr. Sachidanand Sinha. After elections were held, Dr. Rajendra Prasad and HC Mukherjee were elected as the President and Vice President of the Assembly respectively.

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Q91. Answer: (c) Laterite

The correct answer is Laterite.

Key Points

• Laterite

• Laterite is both a soil and a rock type rich in iron and aluminium and is commonly considered to have formed in hot and wet tropical areas.

• All laterites are of rusty-red colouration, because of high iron oxide content.

• Historically, laterite was cut into brick-like shapes and used in monument buildings.

• Locally available laterites have been used in an acid solution.

• Laterite soils have a high cay content.

Additional Information

• Saline

• The surface layers of saline soil commonly have very good soil structure.

• In terms of agricultural use, saline soil is one that inhibits the growth of most crops because of the higher concentration of neutral soluble salts in it.

• The salinity of the soil is measured by electrical conductivity.

• Arid Soil

• Arid soils are the soils of desert or semi-desert regions and colours varies from red to brown.

• The soil has a sandy texture and salinity.

• After irrigation, its productivity is increased and it becomes suitable for cultivation.

• Pedocal

• Pedocal is a subdivision of the zonal soil order.

• It is a class of soil that forms in semiarid and arid regions.

• It is rich in calcium carbonate and has low soil organic matter.

Q92. Answer: (c) Ethanoic acid

The correct answer is Ethanoic acid.

Key Points

• Weak electrolyte

• A weak electrolyte is an electrolyte that does not completely dissociate in an aqueous solution.

• The solution will contain both ions and molecules of the electrolyte.

• Weak electrolytes only partially ionize in the water while strong electrolytes completely ionize.

• Weak acids and weak bases are weak electrolytes.

• Examples are $HC_2H_3O_2$ (acetic acid), H_2CO_3 (carbonic acid), NH_3 (ammonia), and H_3PO_4 (phosphoric acid).

• Ethanoic acid

• Ethanoic acid is the most important of the Carboxylic acids.

• Ethanoic acid is also called Acetic acid.

• A dilute solution of acetic acid produced by fermentation and oxidation of natural carbohydrates is called vinegar.

• Ethanoic acid is used in the preparation of metal acetates, used in some printing processes.

Additional Information

• Calcium Chloride

• Calcium chloride is an inorganic compound, a salt with the chemical formula $CaCl_2$.

• It is a white coloured crystalline solid at room temperature, and it is highly soluble in water.

• It can be created by neutralising hydrochloric acid with calcium hydroxide.

• Sodium Chloride

• Sodium chloride is commonly known as salt.

• It is an ionic compound with the chemical formula NaCl.

• In its edible form of table salt, it is commonly used as a condiment and food preservative.

• It is a major source of sodium and chlorine compounds used as feedstocks for further chemical syntheses.

• Magnesium sulphate

• Magnesium sulphate is a chemical compound, a salt with the formula $MgSO_4$.

• The main use of magnesium sulphate is in agriculture, to correct soils deficient in magnesium.

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Q93. Answer: (d) Night of the Restless Spirits: Stories from 1984

The correct answer is Night of the Restless Spirits: Stories from 1984.

Key Points

• Sarbpreet Singh

• Sarbpreet Singh is a writer, Podcaster and Commentator.

• He is also the author of the critically acclaimed Night of the Restless Spirits and the bestselling The Camel Merchant of Philadelphia, and the writer-narrator of the Story of The Sikh's podcast which has listeners in over ninety countries.

• Night of the Restless Spirits: Stories from 1984

• These are many other stories from this heart-rending collection that evokes the horrors and uncertainties of 1984, through the tales of ordinary people caught in something bigger than themselves.

• The author Sarbpreet Singh recounts the Sikh massacre of 1984 in this book.

• The book is a fictionalized version of real happenings comprising just eight Chapters.

• It shows the events of 1984 through the prism of many lives & impact on Sikhs.

• The book is published by Penguin Publication.

Additional Information

• 40 Years with Abdul Kalam-Untold Stories

• The Vice President of India, M Venkaiah Naidu has released the book titled "40 Years with Abdul Kalam-Untold Stories", a book on the life of the former President of India Dr APJ Abdul Kalam.

• The book was authored by DR A.Sivathanu Pillai. The book is published by Pentagon Press LLP and the foreword was written by Pranab Mukherjee, former president of India.

• The book provided a first-Hand account of the life of Dr APJ Abdul Kalam, who was described as the epitome of simplicity, honesty, and wisdom.

• Dr. Kalam strengthened the Defence sector of India and contributed to the development of India's space capabilities.

• The book discusses his life events including the events at ISRO, DRDO, and BrahMos and his interaction with power corridors.

Q94. Answer: (a) Worm

The correct answer is Worm.

Key Points

• Worm

• A worm is a small piece of software that uses computer networks and security holes to replicate itself.

• A copy of the worm scans the network for another machine that has a specific security hole.

• Worm Uses computer networks and security holes to replicate itself.

• Many worms are designed only to spread and do not attempt to change the systems they pass through.

• The first-ever computer worm was devised to be anti-virus software.

Additional Information

• Trojan horse

• A Trojan horse is a type of malicious code or software that looks legitimate but takes control of your computer.

• A Trojan is designed to damage, disrupt, steal, or in general, inflict some other harmful action on your data or network.

• A Trojan acts as a bona fide application or file to trick you.

• Application

• An application program is a computer program designed to carry out a specific task other than one relating to the operation of the computer itself, typically to be used by end-users.

• Applications may be bundled with the computer and its system software or published separately and may be coded as proprietary, open-source, or projects.

• Operating System

• An operating system is a software program required to manage and operate a computing device like smartphones, tablets, computers, supercomputers, web servers, cars, network towers, etc.

• It is the operating system that eliminates the need to know coding language to interact with computing devices.

Q95. Answer: (c) 26

The correct answer is 26.

Key Points

• There is 26 state-wise representation of members from Gujarat in Lok SAbha as of December 2020.

• Lok Sabha

• Article 81 deals with the Composition of the Lok Sabha.

• The total strength of the Lok Sabha is 543.

• The Lok Sabha (Lower house of the People) was duly constituted for the first time on 17 April 1952 after the first General Elections were held from 25 October 1951 to 21 February 1952.

• The Lok Sabha is the lower house of India's bicameral Parliament with the upper house being the Rajya Sabha.

• Members hold their seats for five years or until the body is dissolved by the President on the advice of the Council of ministers.

• The Lok Sabha has its own television channel, Lok Sabha TV, headquartered within the premises of Parliament.

Q96. Answer: (d) Kerala

The correct answer is Kerala.

Key Points

• Peppara Wildlife Sanctuary

• The Peppara Wildlife Sanctuary is a wildlife sanctuary in the Thiruvananthapuram district of Kerala, India.

• The Sanctuary is named after the Peppara Dam, commissioned in 1983 to augment the drinking water supply to Thiruvananthapuram city and suburban areas.

• It is part of the Agasthyamala Biosphere Reserve.

• Peppara Wildlife Sanctuary is 44 kilometres by car from the nearest railway station, at Thiruvananthapuram, and 49 kilometres from the Thiruvananthapuram airport.

• The sanctuary has several mammals, birds, reptiles, and amphibians. The common mammals found are tiger, leopard, sloth bear, elephant, sambar, bonnet macaque, Nilgiri langur, Nilgiri tahr.

• Kerala

• Chief Minister - Pinarayi Vijayan(On November 2021)

• Governor- Arif Mohmmad Khan (On November 2021)

• State Bird - Great Hornbill

• State Animal - Indian Elephant

• State Tree - Coconut Tree

• State Flower - Kanikonna

• National Parks - Anamudi Shola National Park, Eravikulam National Park, Pambadum Shola National Park, Periyar National Park, Silent Valley National Park.

Additional Information

States	Chief Minister (November 2021)	Governor (November 2021)	Wildlife Sanctuary
Meghalaya	Conrad Kongkal Sangma	Phagu Chauhan	Baghmara Pitcher Plant Wildlife Sanctuary, Narpuh Wildlife Sanctuary, Nogkhyllem Wildlife Sanctuary Siju Wildlife sanctuary.
Tamil Nadu	M. K. Stalin	R.N. Ravi	Chitrangudi Bird Wildlife Sanctuary, Gangarikondam Spotted Dear Wildlife Sanctuary, Indira Gandhi Wildlife Sanctuary, Kalakad Wildlife Sanctuary.
Punjab	Bhagwant Mann	Banwarilal Purohit	Abohar Wildlife Sanctuary, Bir Aishvan Wildlife Sanctuary, Bir Bhadson Wildlife Sanctuary, Bir Dosanjh Wildlife Sanctuary

Q97. Answer: (d) Mahendra Singh Dhoni

The correct answer is Mahendra Singh Dhoni.

Key Points

• MS Dhoni won the ICC Spirit of Cricket Award of the Decade, chosen by fans unanimously for his gesture of calling back former England batter Ian Bell following a disputable runout at Trent Bridge in 2011.

• ICC Awards of The Decade

• The ICC Awards of The Decade recognize the best players across Cricket over the past 10 years.

• Fans provided 100% of the vote for the ICC Spirit of Cricket Award of the Decade, from a list of the past winners since 2011.

• More than 1.5 million fans from across the globe participated casting 5.3 million votes.

• The nominees for each of the categories had been determined by the Awards Nominations Committee according to on-field performances and overall achievements for at least five years during the period.

• MS Dhoni

• He is a former international cricketer.

• He is currently the captain of Chennai Super Kings, a franchise-based team of the Indian Premier League.

• Dhoni is often considered the greatest captain of the Indian cricket team.

• Dhoni announced his retirement from international cricket on 15 August 2020.

• On Winning the 2013 ICC Champions Trophy, Dhoni became the first and the only captain in international cricket to claim all ICC trophies.

Additional Information

• 'ICC Spirit of Cricket Award of the Decade'

• An action, moment, gesture, or decision on the field of play in international cricket during the performance period best reflects the Spirit of Cricket.

Q98. Answer: (d) Vidisha Maitra

The correct answer is Vidisha Maitra.

Key Points

• Advisory Committee on Administrative and Budgetary Questions

• The Advisory Committee is an expert Committee of twenty-one Members.

• It is elected by the General Assembly for a period of three years.

• Members serve in a personal capacity and not as representatives of Member States.

• The Chairman and Vice-Chairman of the Committee are elected by the Members of the Advisory Committee.

• The Advisory Committee is serviced by a secretariat headed by an Executive Secretary, assisted by a Dep

• Vidisha Maitra

• Vidisha Maitra is an Indian Officer situated in New Delhi, India.

• She split the UPSC Civil Services Examination 2008.

• She turned into the Indian Foreign Service Officer (IFS) in 2009.

• In a significant victory for India at the United Nations, Indian diplomat Vidisha Maitra was elected to the U.N. Advisory Committee on Administrative and Budgetary Questions (ACABQ), a subsidiary organ of the General Assembly.

• She impeccably finished her preparation and got the gold decoration.

• She is among the most up-to-date officials and the first secretary in the United Nations.

• She cares for the neighbouring countries and the Shanghai Cooperation Organization.

• She gave a discourse on the August Platform.

Additional Information

• Anita Bhatia

• Ms Bhatia has had a distinguished career at the World Bank Group, serving in various senior leadership and management positions, both at Headquarters and in the field.

• She has served for several years as Director of Global Partnerships for the International Finance Corporation (IFC), the private sector arm of the World Bank Group.

• She developed and expanded innovative partnerships with public and private sector partners to support IFC strategy in key areas, including fragile and conflict-affected states, gender equality, financial inclusion, support to women-owned businesses, and other priorities critical for the achievement of the Sustainable Develop.

• Soma Mandal

• Soma Mondal is the first woman chairperson in the vibrant history of SAIL.

• She was appointed as a Director with the company only in 2017.

• She had joined NALCO way back in 1984 as a Management Trainee after completing her engineering.

Q99. Answer: (d) Badminton

The correct answer is Badminton.

Key Points

• Samiya Imad Farooqui

• Samiya Farooqui is an Indian-born Badminton Player.

• She has won the Silver medal at the Junior Grand Prix, 2017 in the Singles event.

• She along with Gayatri Pullela are one of India's top emerging Doubles players and is supported by the GoSports Foundation through the Abhinav Bindra Targeting Performance Programme.

• She is currently ranked 3rd in the National U-17 Singles Rankings.

• Her talent and ability are complimented well by the wonderful support structure she has around her.

• She aims to represent and win medals for India at the international stage in her age category in the next five years.

Additional Information

• Badminton

• Badminton is a racquet sport played using racquets to hit a shuttlecock across a net.

• The most common forms of the game are "singles" and "doubles".

• Points are scored by striking the shuttlecock with the racquet and landing it within the opposing side's half of the court.

• Shuttlecocks also have a high tip speed compared to the balls in other racquet sports.

• The flight of the shuttlecock gives the sport its distinctive nature.

Q100. Answer: (b) Satyendra Garg

The correct answer is Satyendra Garg.

Key Points

• Satyendra Garg

• Satyendra Garg, a 1987-batch IPS officer was posted as joint secretary in the Union home ministry.

• He was handling the North East division in the home ministry as a joint secretary before being repatriated to his cadre.

• Director-General of Police (DGP)

• The Director of Police is the highest-ranking police officer in an Indian State or Union Territory.

• DGP typically heads the state or UT police force, is also called State Police Chief.

• DGP is appointed by the Cabinet from the Indian Police Service and they hold a three-star rank.

• The UPSC will prepare a panel of three officers to fit to be DGP and send it back.

Additional Information

• Niranjan Hiranandani

• He is an Indian billionaire businessman, co-founder, and managing director of Hiranandani Group, engaged in the real estate business.

• He is ranked by Forbes among the 100 richest Indians, with a net worth of US$ 1.6 billion as of June 2021.

• In 2020, he was in the Top 10 Indian real estate tycoons according to the Grohe Hurun report and he was the second richest person in the Real estate Sector as per the IIFL Wealth Hurun India Rich List.

• Along with members of his family, Hiranandani controls the privately owned Hiranandani Group.

• Sumant Sinha

• He is an Indian businessman.

• He is the Chairman and Managing Director of ReNew Power, India's largest renewable power producer and renewable energy unicorn, which was founded by him in 2011.

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