SSC CHSL Previous Paper 17 (Held On: 14 Oct 2020 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) Marriage
(b) Intriging
(c) Symphony
(d) Separate

Q2. Select the correct indirect form of the given sentence.

Aanya said to, "I've made a rose and honey vanilla dessert for you."

(a) Aanya told me that she had made a rose and honey vanilla dessert for me.
(b) Aanya told me that she is making a rose and honey vanilla dessert for me.
(c) Aanya tell me that she would make a rose and honey vanilla dessert for her.
(d) Aanya said to me that she was making a rose and honey vanilla dessert for me.

Q3. Select the correct passive form of the given sentence.

I use baking soda to remove stains from my clothes.

(a) Baking soda is being used by me to remove stains from my clothes.
(b) Baking soda is used by me to remove stains from my clothes.
(c) I have been using baking soda to remove stains from my clothes.
(d) Baking soda was used by me to remove stains from my clothes.

Q4. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. It is also very sad that ill-treatment is meted out to one of your gifts, and everyone indulges in excess!"

B. "I can't take it anymore," he complained. "People abuse me and exploit me, and there is no respect for me – no realisation that I am your prasadam to men!

C. An ancient story tells us that the God of Food came before the Divine Presence, battered, exhausted, and downcast.

D. The Lord smiled and said to him, "Those who abuse you and indulge in excess are destroying themselves."

(a) ACDB
(b) CBAD
(c) BADC
(d) CABD

Directions

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

One fireman died while 14 others had a narrow escape when a part of the factory-cum-outlet of a well-known battery (1)____ firm where they were battling a major (2)__ collapsed following a series of sudden explosions in west Delhi. The brave fireman who had joined the department last year and got married (3)__, was buried under a pile of debris following explosions which were (4)__ by a compressor burst. The fireman died due to (5)____ bleeding and smoke inhalation. It took firemen five hours to pull his

body out of the debris.

Q5. Select the most appropriate option for blank number 1.

(a) manufactures
(b) manufacturing
(c) manufactured
(d) manufacturable

Q6. Select the most appropriate option for blank number 2.

(a) fracture
(b) trouble
(c) blaze
(d) ruin

Q7. Select the most appropriate option for blank number 3.

(a) recently
(b) generously
(c) evidently
(d) eventually

Q8. Select the most appropriate option for blank number 4.

(a) triggered
(b) amazed
(c) advocated
(d) horrified

Q9. Select the most appropriate option for blank number 5.

(a) towering
(b) lavish
(c) excessive
(d) exorbitant

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

The scientist, who is known for his _____ ideas on space travel, is much admired.

(a) ridiculous
(b) anarchist
(c) revolutionary
(d) malicious

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

PROVOKE

(a) Encourage
(b) Beckon
(c) Appease
(d) Stimulate

Q12. Select the INCORRECTLY spelt word.

(a) Grammer
(b) Permanent
(c) Disapprove
(d) Allegation

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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 improvement'.

Doctors at the AIIMS Trauma Centre managed to save the life of 12-year-old archer Shivangini, whose were struck by an arrow in the neck during a practice session.

(a) who was struck
(b) which was struck
(c) No improvement
(d) who was striked

Q14. Select the most appropriate word to fill in the blank.

I found the scene of some people making fun of a beggar quite _____.

(a) admirable
(b) destructive
(c) sociable
(d) repulsive

Q15. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

She is quite capable of looking after herself, aren't she?

(a) won't she
(b) No improvement
(c) isn't she
(d) wasn't she

Q16. In the given sentence, identify the segment which contains the grammatical error.

The performance of our players is worst than I had expected.

(a) of our players
(b) I had expected.
(c) worst than
(d) The performance

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

Jump on the bandwagon

(a) Do something because circumstances force you to
(b) Do an activity that is fun
(c) Get involved in an activity because it is likely to succeed
(d) Get engaged in an activity that is very important

Q18. Select the most appropriate meaning of the given idiom.

Add insult to injury

(a) Hurt someone physically
(b) Say words that are very offensive
(c) Make a bad situation even worse
(d) Play a prank on someone

Q19. Select the word which means the same as the group of words given.

Movement of people or animals from one area to another

(a) Acclimatization
(b) Diversification
(c) Population
(d) Migration

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Q20. In the following question, out of the given alternatives, choose the best one which expresses the meaning of the given word.

Prejudice

(a) Advantage
(b) Tolerance
(c) Bias
(d) Justice

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

DISAPPROVE

(a) Oppose
(b) Commend
(c) Neglect
(d) Refuse

Q22. Select the most appropriate synonym of the given word.

PERSECUTION

(a) Perfection
(b) Affliction
(c) Stimulation
(d) Oppression

Q23. Direction: Select the segment of the sentence that contains the grammatical error.

A panel has been formed to look within the security needs of college students.

(a) the security needs
(b) A panel has been formed
(c) of college students
(d) to look within

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

One who tells future from the stars

(a) Philanthropist
(b) Personification
(c) Astrologer
(d) Miser

Q25. Given below are four jumbled sentences. Pick the option that gives their correct order.

A. When we wish to achieve something, we cannot expect success in a moment.
B. It is the same with any great achievement.
C. It took several years to build Rome and bring it to the state of glory.
D. Rome, the greatest city of the ancient world was not built in a short time.

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

GENERAL INTELLIGENCE

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

8, 17, 9, 19, 10, 21, ?, ?

(a) 11, 24
(b) 11, 23
(c) 11, 22

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(d) 10, 23

Q27. Four words have been given out of which three are alike in some manner and one is different. Select the odd one.

(a) Oyster
(b) Shark
(c) Salmon
(d) Cod

Q28. In a certain code language, LIFE is written as MOGI. How will SOUP be written as in the same language?

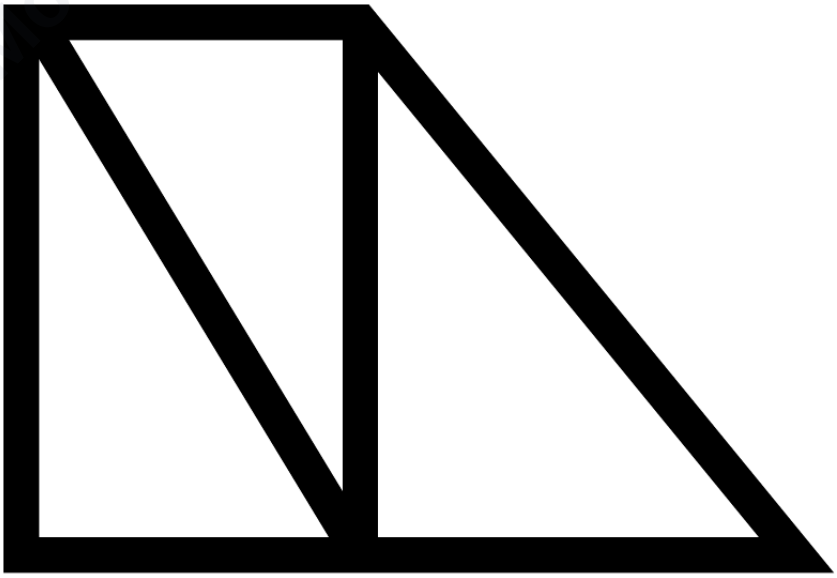
(a) TTVT
(b) TTTV
(c) TUVT
(d) TTUV

Q29. Select the number that can replace the question mark (?) in the following series.

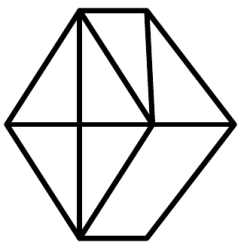
8, 11, 17, 26, 38, 53, ?

(a) 91
(b) 81
(c) 61
(d) 71

Q30. Select the option in which the given figure is embedded (rotation is not allowed).

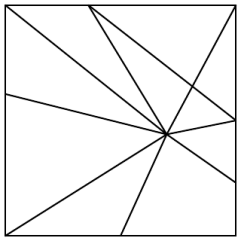


(a)

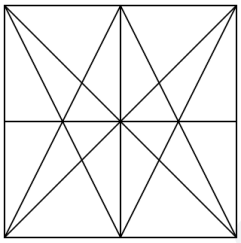


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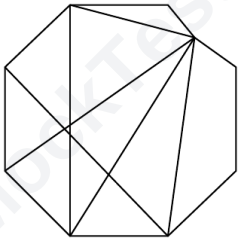
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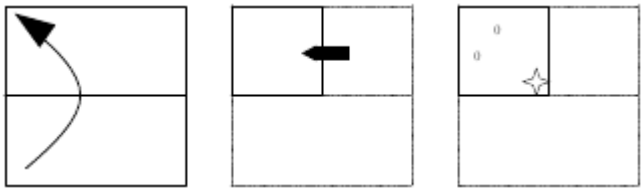
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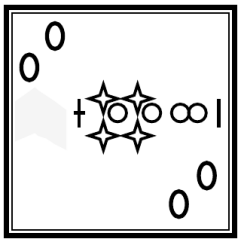
(d)



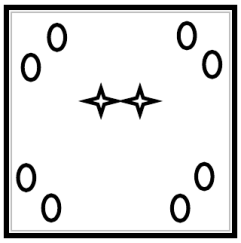
Q31. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



(a)

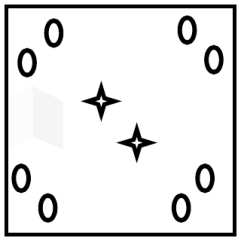


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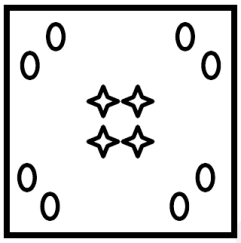


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(c)



(d)



Q32. Four letter-clusters have been given out of which three are alike in some manner and one is different. Select the odd one.

(a) NGMAO
(b) CNILPE
(c) ANNABA
(d) APELP

Q33. Select the option that is related to third number in the same way as the second number is related to the first number

10 : 1010 :: 11 : ?

(a) 131
(b) 132
(c) 1320
(d) 1342

Q34. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Sheep : Flock

(a) Man : Human
(b) River : Sea
(c) Fish : Shoal
(d) City : District

Q35. Read the given statements and conclusion carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

I. Some books are tables.

II. All tables are chairs.

Conclusions:

I. All books are chairs.

II. Some books are chairs.

III. Some tables are book.

IV. All chairs are book.

(a) Only conclusion I follows
(b) Only conclusions II and III follow
(c) Only conclusions II, III and IV follow

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(d) Only conclusions I and IV follow

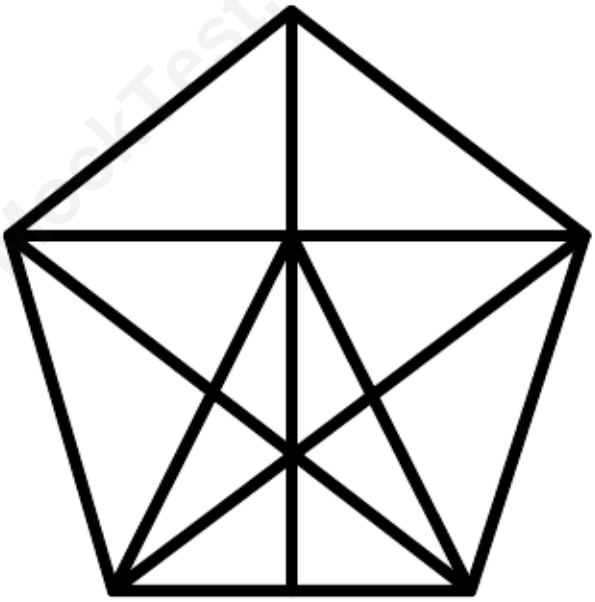
Q36. In a grocery shop the number of vegetables is three times the number of fruits. Which among the following number correctly represents the total number of fruits and vegetables in the shop?

(a) 39
(b) 42
(c) 60
(d) 50

Q37. If in a certain code language, SITUATION as 133 and RIGHT is written as 67, then how will CONSTITUTION be written as in that language?

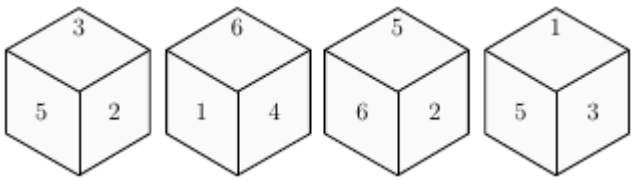
(a) 167
(b) 184
(c) 132
(d) 179

Q38. How many triangles are there in the given figure?



(a) 20
(b) 27
(c) 38
(d) 25

Q39. Four different positions of the same dice are shown. Select the number that will be on the face opposite to the one having 5.



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

Q40. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

a_ _ccde_ _ _bc_ _ _eaabc_ _ _ _aabc_ _ee

(a) acbdecdeaacecd
(b) abcdecdeecdeaa
(c) abeaacdecdeecd
(d) abbaacdeecdecd

Q41. Introducing Shikha, Arvind said, "The only daughter of her mother is my son's wife". How is Arvind related to Shikha?

(a) Mother
(b) Uncle
(c) Father-in-Law
(d) Father

Q42. Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

1. Elbow
2. Shoulders
3. Eyes
4. Feet
5. Knee

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

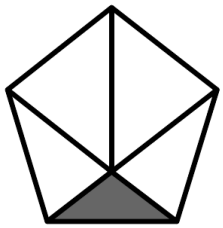
Q43. Four numbers have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) 529
(b) 49
(c) 9
(d) 8

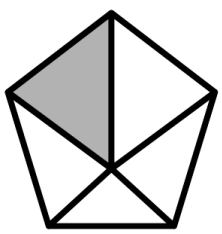
Q44. Select the figure that will come next in the following figure series.



(a)

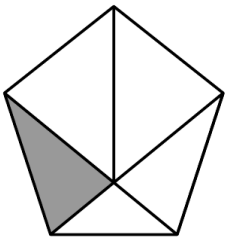


(b)

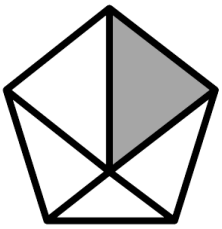


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(c)



(d)



Q45. Select the option in which the number set shares the same relationship as that shared by the given number set.

(2, 41, 7)

(a) (4, 57, 11)
(b) (9, 92, 11)
(c) (6, 36, 9)
(d) (8, 81, 11)

Q46. Which two signs should be interchanged in the following equation to make it correct?

6 + 7 × 8 - 21 ÷ 7 = 47

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

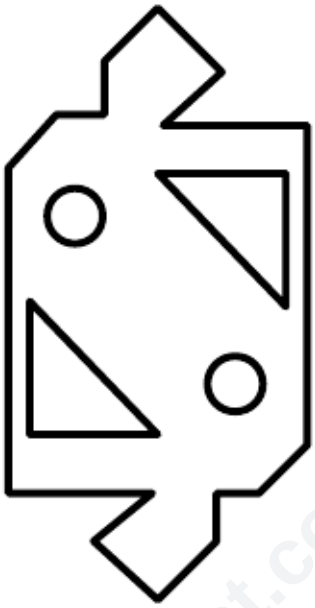
Q47. Select the option that is related to the third term in the same way as the second term is related to the first term.

JUST : IWPX :: AWAY : ?

(a) WYAA
(b) AYWC
(c) ZYXC
(d) AAYW

Q48. Select the correct mirror image of the given figure when the mirror is placed to its right side.

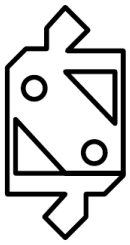
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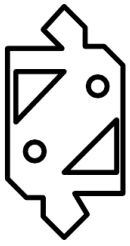
(a)



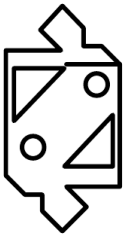
(b)



(c)



(d)



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Q49. Select the option that is related to the fourth term in the same way as the first term is related to the second term.

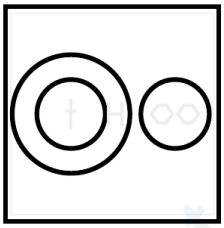
TIGER : CAT :: ? : DOG

(a) Jaguar
(b) Lynx
(c) Fox
(d) Lion

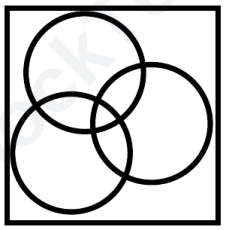
Q50. Select the Venn diagram that best represents the relationship between the following classes.

Animals, Cows, Dogs

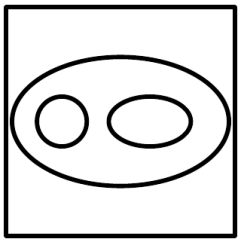
(a)



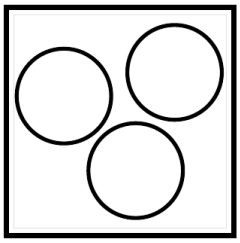
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. Dividing the amount Rs. 18,144 among three people A, B, C in the ratio 3 : 5 : 8, the amount B gets more than A, is:

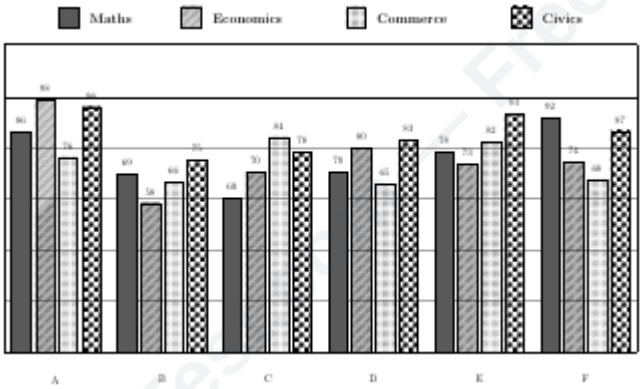
(a) Rs. 2,464
(b) Rs. 2,178
(c) Rs. 2,386
(d) Rs. 2,268

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Q52. The difference between the selling prices of some articles if sold for Rs. 12 per article instead of Rs. 9 per article is Rs. 150. If the cost price of these articles is Rs. 250, then find the selling price of 21 articles if profit earned is 20%.

(a) Rs. 125
(b) Rs. 136
(c) Rs. 130
(d) Rs. 126

Q53. The following bar graph shows the marks (out of 100) of students A, B, C, D, E and F in the subjects mentioned.



Based on this, only 2 students crossed the average marks in the subject:

(a) Maths
(b) Economics
(c) Commerce
(d) Civics

Q54. A man takes a loan of some amount at some rate of simple interest. After three years, the loan amount is doubled and rate of interest is decreased by 2%. After next 5 years, if the total interest paid on the whole is Rs. 13,600, which is equal to the same when the first amount was taken for 11 1/3 years, then the loan taken initially is:

(a) Rs. 12,000
(b) Rs. 12,500
(c) Rs. 13,600
(d) Rs. 10,000

Q55. Which of the following values suits for A to make the equation $(A \tan 62° \sec 28° \cot 38°)/(\text{cosec } 62° \tan 11°) = 1$ true?

(a) $(\tan 38° \tan 79°)/(\tan 28°)$
(b) $(\tan 28° \tan 38°)/(\tan 79°)$
(c) $(\tan 28° \tan 79°)/(\tan 38°)$
(d) $(\tan 38°)/(\tan 79° \tan 28°)$

Q56. The value of $5\sqrt{3} + 7\sqrt{2} - \sqrt{6} - 23/(\sqrt{2} + \sqrt{3} + \sqrt{6})$ is:

(a) 16
(b) 0
(c) 12
(d) 10

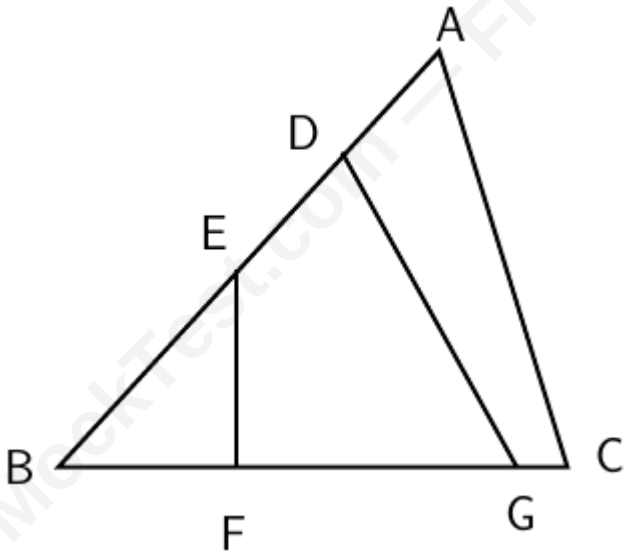
Q57. If A and B are acute angles and sec A = 3; cot B = 4, then the value of $(\text{cosec}^2 A + \sin^2 B)/(\cot^2 A + \sec^2 B)$ is:

(a) 2
(b) 322/323
(c) 1/261
(d) 25/261

Q58. If 27 people, working 8 hours a day, can complete a task in 12 days, then in how many days will 18 people finish the task, working 9 hours a day?

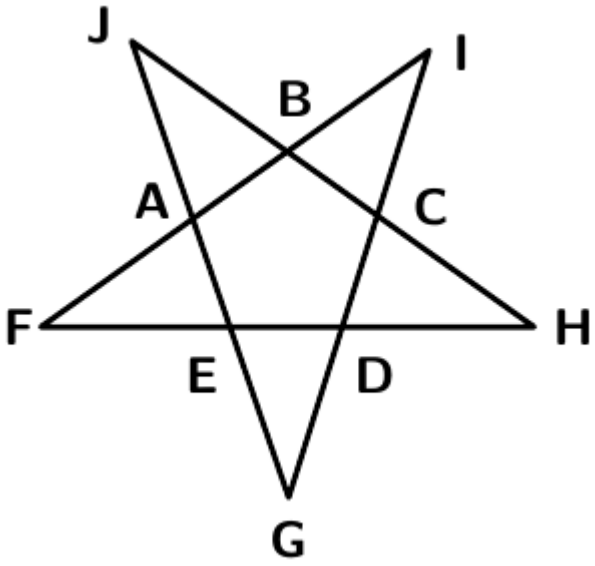
(a) 15 days
(b) 16 days
(c) 18 days
(d) 20 days

Q59. In the given figure, if AD = 3, DE = 4, AB = 12, BF = 2, FG = 6, BC = 10, then the value of frac M N is:
(Assume: M is the area of the quadrilateral FGDE and N is the area of the triangle ABC.)



(a) 1/3
(b) 25/49
(c) 1/2
(d) 31/60

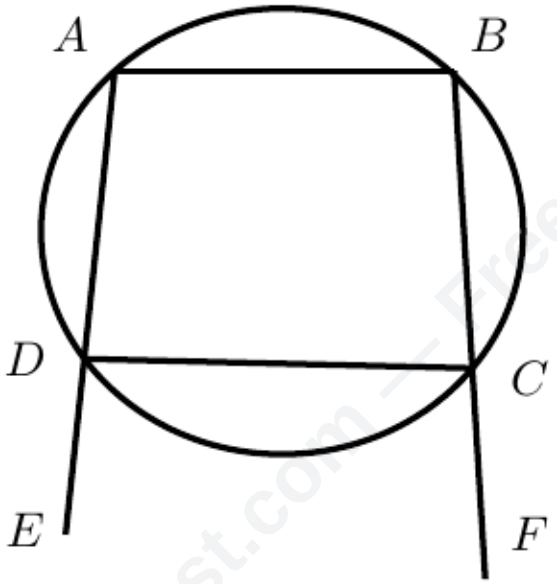
Q60. ABCDE is a regular pentagon. Its sides are extended as shown in the figure. The value of (angle ABC + 2angle EGD + 3angle BAJ)/6 is:



(a) 45°
(b) 75°
(c) 66°
(d) 30°

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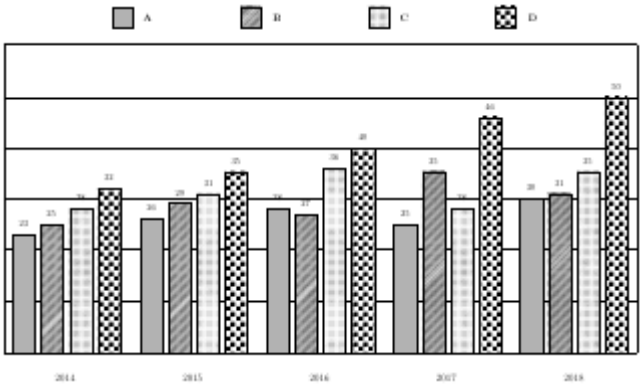
Q61. In the given figure, chords AD and BC in the circle, are extended to E and F, respectively.



If angle CDE = 85°; angle DCF = 94°, then the value of angle ABF + angle EAB is:

(a) 194°
(b) 182°
(c) 168°
(d) 179°

Q62. The following bar graph shows the data of the production of an item (in thousand tonnes) from four different companies A, B, C and D during the years mentioned.



In the five years given, the average production is highest in company _____ and lowest in company _____, respectively.

(a) D; A
(b) A; B
(c) B; C
(d) C; A

Q63. A crate of fruits contains one spoiled fruit for every 25 fruits. 60% of the spoiled fruits were sold. If the seller had sold 48 spoiled fruits, then the number of fruits in the crate were:

(a) 2000
(b) 1200
(c) 2400
(d) 3000

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Q64. Water flows into a tank 180 m × 140 m through a rectangular pipe of 1.2 m × 0.75 m at a rate of 15 km / h. In what time will the water rise by 4 m?

(a) 6 hours 42 minutes
(b) 7 hours 28 minutes
(c) 8 hours 12 minutes
(d) 5 hours 46 minutes

Q65. If the single discount equivalent to successive discounts of 20% and x% is 24%, then the value of x is:

(a) 6%
(b) 4%
(c) 8%
(d) 5%

Q66. A train travels the distance between stations P and Q at a speed of 126 km/h, while in the opposite direction it comes back at 90 km/h. Another train travels the same distance at the average speed of the first train. The time taken by the second train to travel 525 km is:

(a) 4 hours 20 min
(b) 5 hours
(c) 5 hours 20 min
(d) 4 hours

Q67. The value of [5 4/9 ÷ (1/1 4 - 1/3 6)²] ÷ [73/11 of 8 4/5 ÷ 1 5/7 - 4/3]² is:

(a) 1/71
(b) 1/91
(c) 1/81
(d) 1/61

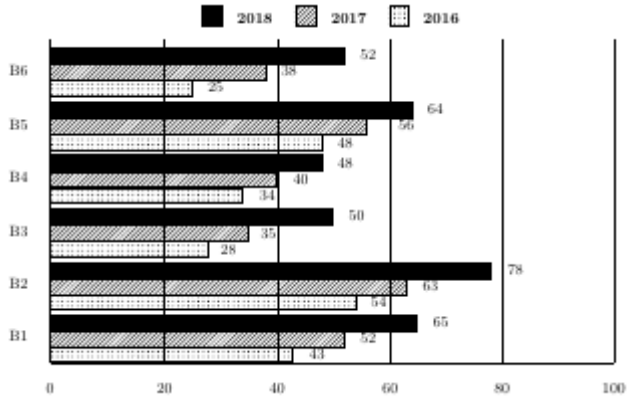
Q68. If tan^4 x - tan² x = 1, then the value of sin^4 x + sin² x is:

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

Q69. The sum of 17 consecutive numbers is 289. The sum of another 10 consecutive numbers, whose first term is 5 more than the average of the first set of consecutive numbers, is:

(a) 300
(b) 265
(c) 285
(d) 315

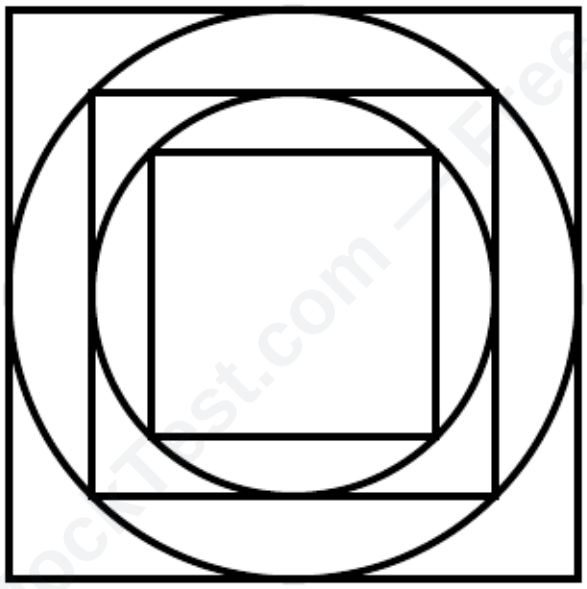
Q70. The following graph shows the data of the collection of interest on loans (in crore Rs.) by six branches B1, B2, B3, B4, B5 and B6 of a bank during the years mentioned.



Based on the information, from the year 2016 to 2017, the highest rate of collection is for the branch:

(a) B3
(b) B4
(c) B6
(d) B1

Q71.



In the given figure, the ratio of the area of the largest square to that of the smallest square is:

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

Q72. If the 8-digit number 1a765b12 is to be divisible by 72, the least value of (2a + 3b) is:

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

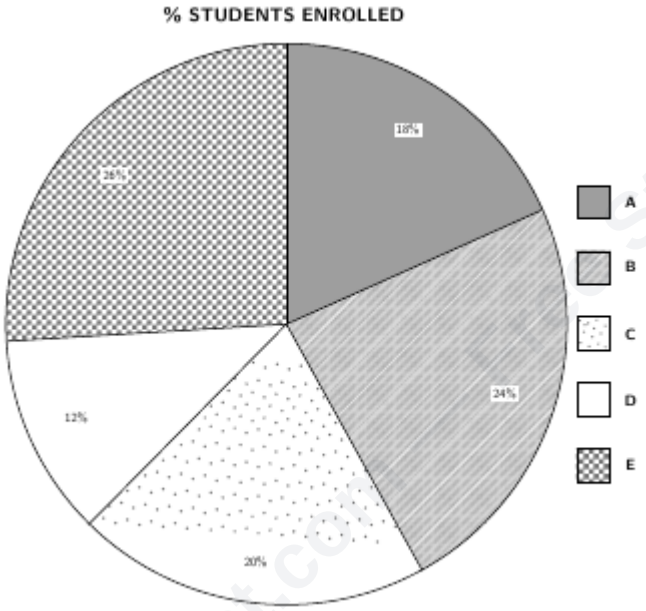
Q73. If (3^(a+3) × 4^(a+6) × 25^(a+1))/(27^(a-1)× 8^(a-2)× 125^(a+4)) = 4/(15^(26)), then the value of √(a + 9) is:

(a) 8
(b) 5
(c) 4
(d) 6

Q74. If x + y = 14; $x^3 + y^3 = 1064$, and xy = 40, then the value of $(x - y)^2$ is:

(a) 36
(b) 64
(c) 81
(d) 100

Q75. The given pie chart shows the percentage of students enrolled for courses A, B, C, D, and E in a university, and the table shows the percentage of students that passed, out of the enrolled students.



Courses	% passed out
A	76
B	82
C	80
D	90
E	75

If the total number of students is 60000, then the total number of students who did not pass in courses A, C is:

(a) 7852
(b) 8254
(c) 7628
(d) 4992

GENERAL AWARENESS

Q76. Which of the following passes cuts through Pir Panjal range and links Manali and Leh by road?

(a) Banihal Pass
(b) Baralachala Pass
(c) Rohtang Pass
(d) Nathula Pass

Q77. As of 29 November 2020, which of the following nations is the number one ranked team in the 'ICC Men's T20' Team Rankings'?

(a) Pakistan
(b) England
(c) Australia
(d) India

Q78. Who among the following won the 'Golden Globe 2020 award' for 'Best Performance by an Actress in a Motion Picture – Drama'?

(a) Beanie Feldstein
(b) Charlize Theron
(c) Cynthia Erivo
(d) Renée Zellweger

Q79. The Thar Desert, also known as the Great Indian Desert, lies towards the western margins of the _____ hills.

(a) Udgalakal
(b) Javadi
(c) Shevroy
(d) Aravali

Q80. As of 15 January 2020, who among the following was the number one ranked male tennis player in the ATP rankings?

(a) Daniil Medvedev
(b) Roger Federer
(c) Rafael Nadal
(d) Novak Djokovic

Q81. Which of the following is a Rabi crop?

(a) Tur
(b) Wheat
(c) Bajra
(d) Jowar

Q82. In context of computing, what is the full form of URL?

(a) Undistributed Resource Locator
(b) Uniform Resource Locator
(c) Unified Resource Locator
(d) Uniform Region Locator

Q83. Who among the following was the first non-Indian to receive the Bharat Ratna, the highest Indian honour that can be given to civilians?

(a) Abdul Ghaffar Khan
(b) Josip Broz Tito
(c) Mikhail Gorbachev
(d) Nelson Mandela

Q84. Which of the following is used to receive and send computer files over telephone lines?

(a) Floppy disk
(b) Light pen
(c) Modem
(d) MICR device

Q85. Who among the following won ICC's 'Spirit of Cricket Award' for the year 2019?

(a) Faf du Plessis
(b) Virat Kohli
(c) Chris Gayle
(d) Mahendra Singh Dhoni

Q86. Which of the following words was inserted in the Preamble by the Constitution (42nd Amendment) Act, 1976?

(a) Justice
(b) Equality
(c) Liberty
(d) Socialist

Q87. Which of the following is a well known place for Chikankari embroidery?

(a) Ranchi
(b) Lucknow
(c) Raipur
(d) Indore

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Q88. Which of the following elements occurs most abundantly in our universe?

(a) Nitrogen
(b) Silicon
(c) Oxygen
(d) Hydrogen

Q89. Which of the following units is used for the measurement of Luminous Intensity?

(a) Candela
(b) Mole
(c) Kelvin
(d) Ampere

Q90. Who among the following wrote 'Akbar Nama'?

(a) Amir Khushro
(b) Akbar
(c) Abul Fazl
(d) Birbal

Q91. Which of the following teams won the 2018-19 Santosh Trophy?

(a) Mizoram
(b) Punjab
(c) Services
(d) Railways

Q92. Who among the following is responsible for preparation of National Income estimates in India?

(a) Finance Commission
(b) Central Statistical Organization
(c) IRDA
(d) NITI Aayog

Q93. In January 2020, the Yashaswini Scheme for Women Entrepreneurship was launched in Goa. The scheme aims to support female Self Help Groups (SHGs) with interest-free loans up to:

(a) Rs. 5 lakh
(b) Rs. 10 lakh
(c) Rs. 50 lakh
(d) Rs. 1 lakh

Q94. Who among the following is credited with the discovery of neutrons?

(a) JJ Thomson
(b) James P Joule
(c) Ernest Rutherford
(d) J Chadwick

Q95. Which of the following freedom fighters was NOT involved in the Kakori Train Robbery?

(a) Bhagat Singh
(b) Ashfaqullah Khan
(c) Ram Prasad Bismil
(d) Chandrashekhar Azad

Q96. Where is Bishnupur, which is famous for terracotta temples, located?

(a) Assam
(b) Rajasthan
(c) Gujarat
(d) West Bengal

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Q97. How many members of the Rajya Sabha can be nominated by the President of India?

(a) 12 members
(b) 10 members
(c) 14 members
(d) 16 members

Q98. How many Indian biosphere reserves are included in the UNESCO World Network of Biosphere Reserves, as of October 2019?

(a) 17
(b) 18
(c) 9
(d) 11

Q99. Which of the following articles of the Constitution of India was invoked by the Kerala government to file a petition against the Citizenship (Amendment) Act (CAA) in the Supreme Court on 14 January 2020?

(a) Article 131
(b) Article 368
(c) Article 23
(d) Article 17

Q100. Which of the following is a tertiary economic activity?

(a) Weaving
(b) Farming
(c) Trading
(d) Hunting

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) Intriging

The correct answer is 'Intriging'.

Key Points

• In the given question Option 2 is incorrectly spelled.
• The correct spelling is 'Intriguing.'
• Intriguing: arousing one's curiosity or interest; fascinating.
• Example: She has a really intriguing personality.
• Therefore, the correct answer is Option 2.

Correct Answer: Intriging.

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Additional Information

• The meaning of other words given in the option as follows:

• Marriage: a legally accepted relationship between two people in which they live together.

• Example: They had a long and happy marriage.

• Symphony: a long piece of music for an orchestra, usually with four movements.

• Example: It is Mahler's ninth symphony.

• Separate: existing or happening independently or in a different physical space.

• Example: The art department and the music department are in two separate buildings.

Q2. Answer: (a) Aanya told me that she had made a rose and honey vanilla dessert for me.

The correct answer is 'Aanya told me that he had made a rose and honey vanilla dessert for me'.

Key Points

• The given sentence is in Direct Narration. As per the given question we have to change it into Indirect Narration.

• The process of transformation as follows:

• 'Said to' will be changed into 'told'. Though the reporting verb has no object, it is understood.

• Comma and inverted comma will be removed.

• 'I' will be changed into 'She'.

• 'Have made' will be changed into 'had made'.

• 'You' will be changed into 'me'.

• Therefore, the correct sentence will be 'Aanya told me that she had made a rose and honey vanilla dessert for me.'

Correct Answer: Aanya told me that she had made a rose and honey vanilla dessert for me.

Q3. Answer: (b) Baking soda is used by me to remove stains from my clothes.

The correct answer is 'Baking soda is used by me to remove stains from my clothes.'

Key Points

• The given sentence is in Active Voice. As per the question we have to change it into Passive Voice.

• The process of transformation as follows:

• 'I' is the subject.

• 'Baking soda' is the object.

• The subject will be put in place of the object and the object will be put in place of the subject.

• 'Use' will be changed into 'is used'.

• 'to remove stains from my clothes' will be written as it is.

• Therefore, the correct sentence is 'Baking soda is used by me to remove stains from my clothes'.

Correct Answer: Baking soda is used by me to remove stains from my clothes.

Q4. Answer: (b) CBAD

The correct answer is 'CBAD'.

Key Points

• Part C and Part B make a pair.

• Part B explains what Part C is saying. Part C tells about the God of Food.

• And Part B explains about its 'His complain'. Part B will be followed by Part C.

• Hence, C and B make a pair.

• Only Option 2 has C and B pair.

• Therefore, the correct answer is 'CBAD'.

Correct Answer: 'CBAD'.

Q5. Answer: (b) manufacturing

The correct answer is 'manufacturing'.

Key Points

• The given passage is about an explosion that occurred in West Delhi.

• Only option 2 fits best in the given fill in the blank.

• Because 'manufacturing firm' is a phrase. And it fits the best in the given fill in the blank.

• Manufacturing: the business of producing goods in large numbers.

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• Example: The service sector now employs more people than manufacturing.

Correct Sentence: "One fireman died while 14 others had a narrow escape when a part of the factory-cum-outlet of a well-known battery manufacturing firm..."

Q6. Answer: (c) blaze

The correct answer is 'blaze'.

Key Points

• The given passage is about an explosion that occurred in West Delhi.
• The correct answer of the given fill in the blank is 'blaze'.
• Blaze: a large, strong fire.
• Example: Firefighters took two hours to control the blaze.
• Due to the explosion, there was fire everywhere. Hence, only Option 3 fits the best in the given question.

Correct Sentence: "...they were battling a major blaze collapsed following a series of sudden explosions in west Delhi."

Additional Information

• The meaning of the other words given in the options as follows:
• Fracture*:* If something hard, such as a bone, fractures, or is fractured, it breaks or cracks.
• Example: She fractured her skull in the accident.
• Trouble: problems or difficulties.
• Example: The tax forms were complicated and I had a lot of trouble with them.
• Ruin: to spoil or destroy something completely.
• Example: Her injury ruined her chances of winning the race.

Q7. Answer: (a) recently

The correct answer is 'recently'.

Key Points

• The given passage is about an explosion that occurred in West Delhi.
• The given fill in blank talks about a brave fireman who recently got married.
• Only option 1 fits the best in the given fill in the blank.
• Hence, 'recently' is the correct answer.

Correct Sentence: "The brave fireman who had joined the department last year and got married recently was buried..."

Additional Information

• The meaning of the other words given in the option as follows:
• Generously: in a way that shows a willingness to give money, help, kindness, etc., especially more than is usual or expected.
• Example: Please give generously to charity.
• evidently: in a way that is easy to see.
• Example: He was evidently upset by the news of the accident.
• Eventually: in the end, especially after a long time or a lot of effort, problems, etc.
• Example: Although she had been ill for a long time, it still came as a shock when she eventually died.

Q8. Answer: (a) triggered

The correct answer is 'triggered'.

Key Points

• The given passage is about an explosion that occurred in West Delhi.
• Triggered: to cause something to happen, especially something bad.
• Example: Central banks must raise interest rates without triggering a financial crisis for households with excessive debts.
• Due to the explosion in the compressor burst fire was there.
• By reading the above definitions we find that the correct answer is triggered.

Correct Sentence: "...under a pile of debris following explosions which were triggered by a compressor burst..."

Additional Information

• The meaning of the other words given in the question as follows:
• Amazed: extremely surprised.
• Example: She was amazed at how calm she felt after the accident.
• Advocated: to publicly support or suggest an idea, development, or way of doing something.

• Example: He advocated the return of capital punishment.
• **Horrified: very shocked.
• Example: I was horrified to hear of his death.

Q9. Answer: (c) excessive

The correct answer is 'excessive'.

Key Points

• The given passage is about an explosion that occurred in West Delhi.
• The most appropriate option for the given sentence is Option 3.
• Excessive: too much or too many.
• Example: Some property owners complained that they were being charged excessive fees.
• Due to excess inhalation of smoke and excess bleeding, the fireman died.
• Therefore, the correct answer is excessive.

Correct Sentence: The fireman died due to excessive bleeding and smoke inhalation. It took firemen five hours to pull his body out of the debris.

Additional Information

• The meaning of the other words given in the options as follows:
• Towering: very high and making people feel respect.
• Example: Laurence Olivier's Othello was a towering performance.
• Lavish: large in quantity and expensive or impressive.
• Example: The evening was a lavish affair with glorious food and an endless supply of champagne.
• Exorbitant: Exorbitant prices, demands, etc. are much too large.
• Example: The bill for dinner was exorbitant.

Q10. Answer: (c) revolutionary

The correct answer is 'revolutionary'.

Key Points

• In the given question the word 'revolutionary' fits the best.
• Revolutionary: a revolutionary product, process, or idea is new and exciting and not like anything that has existed or been done before.
• Example: This is a revolutionary device that will leapfrog current technology.
• By reading the above definition we find that the correct word is 'revolutionary'.
• The other words do not fit in the given fill in the blank. Hence, Options 1, 2, and 4 are incorrect.

Correct Sentence: The scientist, who is known for his revolutionary ideas on space travel, is much admired.

Additional Information

• The meaning of the other words given in the options as follows:
• Ridiculous: stupid or unreasonable and deserving to be laughed at.
• Example: It's ridiculous to expect a two-year-old to be able to read!
• Anarchist: someone who wishes to destroy the existing government and laws.
• Example: He was a poet, an anarchist, and a vegan.
• Malicious: intended to harm or upset other people.
• Example: He was charged with malicious wounding.

Q11. Answer: (c) Appease

The correct answer is 'Appease'.

Key Points

• The exact antonym of the given word 'Provoke' is 'Appease'.
• Provoke: to make or try to make a person or an animal angry.
• Example: He was trying to provoke me into a fight.
• Appease: to prevent further disagreement in arguments or war by giving to the opposing side an advantage that they have demanded.
• Example: She claimed that the government had only changed the law in order to appease their critics.
• By reading the above definition we find that the correct answer is Option 3.

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Correct Answer: Appease.

Additional Information

• The meaning of other words given in the Option as follows:

• Encourage: to make someone more likely to do something, or to make something more likely to happen.

• Example: The council is encouraging the development of the property for both employment and recreation.

• **Beckon: to move your hand or head in a way that tells someone to come nearer.

• Example: The customs official beckoned the woman to his counter.

• Stimulate: to encourage something to grow, develop, or become active.

• Example: The government plans to cut taxes in order to stimulate the economy.

Q12. Answer: (a) Grammer

The correct answer is 'Grammer'.

Key Points

• In the given question Option 1 is incorrectly spelled.

• The correct spelling is 'Grammar'.

• Grammar: (the study or use of) the rules about how words change their form and combine with other words to make sentences.

• Example: These books give very good grammar coverage.

Correct Answer: Grammer.

Additional Information

• The meaning of the other word as follows:

• Permanent: Something that is permanent exists or happens all the time.

• Example: The accident left him with permanent brain damage.

• Disapprove: to feel that something or someone is bad, wrong, etc.

• Example: I strongly disapprove of underage drinking.

• Allegation: a statement, made without giving proof, that someone has done something wrong or illegal.

• Example: Several of her patients have made allegations of professional misconduct against her.

Q13. Answer: (a) who was struck

The correct answer is 'who was struck'.

Key Points

• The given sentence requires improvement.

• 'whose were struck' should be changed into 'who was struck'.

• 'Who' is a relative pronoun. 'Whose' is used for the plural subject. Whereas, 'who' should be used.

• We know that relative pronouns are used as a subject of a subordinate clause.

• In the given sentence subject 'Shivangini' is a singular subject.

• Therefore, a singular form of the verb 'was' should be used.

• Hence, the correct answer is 'who was struck'.

Correct Sentence: Doctors at the AIIMS Trauma Centre managed to save the life of 12-year-old archer Shivangini, who was struck by an arrow in the neck during a practice session.

Q14. Answer: (d) repulsive

The correct answer is 'repulsive'.

Key Points

• The given sentence particularly belongs to the category of fill in the blank.

• The correct answer to the given question is 'repulsive'.

• Repulsive: extremely unpleasant or unacceptable.

• Example: I think rats and snakes are repulsive.

• The act of making fun of a beggar in itself is very repugnant. In the given question only Option 4 is the most appropriate.

• Therefore, The correct answer is 'repulsive'.

Correct Answer: I found the scene of some people making fun of a beggar quite repulsive.

Additional Information

• The meaning of the other words given in the option as follows:

• Admirable: deserving respect or approval.

• Example: The police did an admirable job in keeping the fans calm.
• Destructive: causing, or able to cause, damage.
• Example: Lack of trust is very destructive in a relationship.
• Sociable: Sociable people like to meet and spend time with other people.
• Example: I had a headache and I wasn't feeling very sociable.

Q15. Answer: (c) isn't she

The correct answer is "isn't she".

Key Points

• The underlined Part "aren't she" is grammatically wrong.
• It should have "isn't".
• We know that singular question tag is followed by a singular negative question tag.
• Therefore, the correct answer is Option 3.

Correct Sentence: She is quite capable of looking after herself, isn't she?

Additional Information

• If the sentences start with "Let's" (Let us) then "shall we?" should be used as a question tag.
• Example: Let's walk, shall we?

Q16. Answer: (c) worst than

The correct answer is 'worst than'.

Key Points

• The erroneous Part 'worst than' should have 'worse than' instead.
• We know that "than" is used with the comparative and 'of' and 'among' is used superlative degree.
• Here, in the given sentence 'worst' is the superlative degree of 'bad'.
• Whereas, the given sentence needs a comparative degree of 'bad' that is 'worse'.
• Therefore, Option 3 is the correct answer.

Correct Sentence: The performance of our players is worse than I had expected.

Additional Information

• We should avoid using double comparatives and superlatives in a sentence together.
• Alexander was more taller than John.
• Alexander was taller than John.

Q17. Answer: (c) Get involved in an activity because it is likely to succeed

The correct answer is 'Get involved in an activity because it is likely to succeed'.

Key Points

• The correct answer of the given idiom is 'Get involved in an activity because it is likely to succeed'.
• Jump on the bandwagon: If you ‘jump on the bandwagon’, you join a growing movement in support of someone or something when that movement is seen to be about to become successful.
• Example: So many people are trying to quit smoking that I might as well jump on the bandwagon and quit as well.

Correct Answer: Get involved in an activity because it is likely to succeed.

Q18. Answer: (c) Make a bad situation even worse

The solution is in Hindi. Read it online.

Q19. Answer: (d) Migration

The correct answer is 'Migration'.

Key Points

• The correct one word of the given statement is 'Migration'.
• Migration: the process of animals traveling to a different place, usually when the season changes.
• Example: Christmas Island is known for its annual migration of 50 million bright red land crabs from the forest to the sea.

Correct Answer: Migration.

Additional Information

• The meaning of the other words given in the options as follows:
• Acclimatization: the process of changing to suit different conditions of life, weather, etc., or the act of making someone or

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something do this.

• Example: Inadequate acclimatization may lead to altitude sickness above 8,000 ft.

• Diversification: the process of starting to include more different types of things.

• Example: Diversification of your investments lowers risk.

• Population: all the people living in a particular country, area, or place.

• Example: Ten percent of the population lived in poverty.

Q20. Answer: (c) Bias

The solution is in Hindi. Read it online.

Q21. Answer: (b) Commend

The correct answer is 'Commend'.

Key Points

• The exact antonym of the given word 'Disapprove' is 'Commend'.

• 'Disapprove': to feel that something or someone is bad, wrong, etc.

• Example: I strongly disapprove of underage drinking.

• 'Commend': to formally praise someone or something.

• Example: For a low-budget film, it has much to commend it.

• By reading the above definition we can infer that the correct answer is 'Commend'.

Correct Answer: Commend.

Additional Information

• The meanings of the other words given in the options as follows:

• Oppose: to disagree with something or someone, often by speaking or fighting against it, him, or her.

• Example: The proposed new testing system has been vigorously opposed by teachers.

• Neglect: to not give enough care or attention to people or things that are your responsibility.

• Example: She's been neglecting her studies this semester.

• Refuse: to say that you will not do or accept something.

• Example: He asked me to give him another loan, but I refused.

Q22. Answer: (d) Oppression

The correct answer is 'Oppression'.

Key Points

• The exact synonym of the given word 'Persecution' is 'Oppression'.

• Persecution: unfair or cruel treatment over a long period of time because of race, religion, or political beliefs.

• Example: They left the country out of fear of persecution.

• Oppression: a situation in which people are governed in an unfair and cruel way and prevented from having opportunities and freedom.

• Example: Every human being has the right to freedom from oppression.

• By reading the above definitions we can infer that the correct answer is Option 4.

Correct Answer: Oppression.

Additional Information

• The meaning of other options as follows:

• Perfection: the state of being complete and correct in every way.

• Example: In his quest for physical perfection, he spends hours in the gym.

• Affliction: something that makes you suffer.

• Example: Malnutrition is one of the common afflictions of the poor.

• Stimulation: an action or thing that causes someone or something to become more active or enthusiastic, or to develop or operate.

• Example: Electric stimulation can help to heal fractured bones.

Q23. Answer: (d) to look within

The correct answer is to look within.

Key Points

• The erroneous Part should have 'to look into' instead of 'to look within'.

• 'Look into' is a correct phrasal verb.
• Look into: to try to discover the facts about something such as a problem or a crime
• Example: I wrote a letter of complaint, and the airline has promised to look into the matter.
• **Therefore, the correct answer is Option 4.

Correct Sentence: A panel has been formed to look into the security needs of college students.

Additional Information

• The other Phrasal Verbs of the word 'look' as follows:
• Look after: to take care of.
• Example: Rahul should look after his parents.
• Look ahead: to think about and plan the future.
• Example: We need to look ahead at building social cohesion.
• Look forward to: to feel excited and happy about something that is going to happen.
• Example: He's looking forward to starting his new job.
• **Look through: to examine something, usually quickly.
• Example: Look through the catalog and find this picture.

Q24. Answer: (c) Astrologer

The correct answer is 'Astrologer'.

Key Points

• Astrologer: a person who uses astrology to tell others about their character or to predict their future.
• Example: He was advised by astrologers to delay his departure.
• **Therefore, the correct answer is Option 3.

Correct Answer: Astrologer.

Additional Information

• Philanthropist: a person who seeks to promote the welfare of others, especially by the generous donation of money to good causes.
• Example: The trust was founded by an American philanthropist.
• **Personification: the attribution of a personal nature or human characteristics to something non-human, or the representation of an abstract quality in human form.
• Example: The book provides a sustained account of how literary personification works.
• Miser: a person who hoards wealth and spends as little money as possible.
• Example: A typical miser hid his money in the house in various places.

Q25. Answer: (d) DCBA

The correct answer is 'DCBA'.

Key Points

• Only Part D can be the first sentence because the first statement of a para jumble question is usually a general statement, noun, most, once, a universal fact, or starting of an incident, etc.
• In the given question only Part D starts with a Noun that is Rome. It is also a general statement.
• Part C should be the next sentence because it explains Part D.
• Therefore, Part C and Part D make a pair. And only Option 4 starts with Part D and Part D should be followed by Part C.
• Hence, the correct answer is DCBA.

Correct Answer: DCBA.

Q26. Answer: (b) 11, 23

Given series:

8, 17, 9, 19, 10, 21, ?, ?

The pattern followed here is:

Hence, 11 and 23 is the correct answer.

Q27. Answer: (a) Oyster

The meaning of the given words are:

Oyster: A shellfish

Shark: A large sea fish with sharp teeth.
Salmon: A large fish with silver skin
Cod: A large sea fish that lives in the North Atlantic
All the above words are examples of sea fish except Oyster which is a shell fish.
Hence, Oyster is the odd one.

Q28. Answer: (c) TUVT

According to the given coded form, the pattern followed here is:
Similarly,
Hence, TUVT is the coded form of SOUP

Q29. Answer: (d) 71

Given series:
8, 11, 17, 26, 38, 53, ?
The pattern followed here is:
Hence, 71 will replace the question mark.

Q30. Answer: (a) [figure]

The image is hidden in the following diagram:
Hence, option 1 has an embedded figure.

Q31. Answer: (d) [figure]

According to the given folded image:
The unfolded pattern will be like:
→
Hence, option 4 is the correct unfolded pattern.

Q32. Answer: (b) CNILPE

Four letter - clusters have been given:
NGMAO → MANGO
CNILPE → PENCIL
ANNABA → BANANA
APELP → APPLE
All are the names of the fruits except, Pencil which is a stationary item.
Hence, CNILPE is different from all.

Q33. Answer: (d) 1342

The pattern followed here is:
$10^3 + 10 = 1010$:
Similarly,
$11^3 + 11 = 1342$
Hence, 1342 is the correct answer.

Q34. Answer: (c) Fish : Shoal

In the given relationship, the animal and its group has been given.
The group of sheep is known as Flock.
Similarly,
The group of fish is known as shoaling.
Other options are not matching in the given relationship.
Hence, Fish : Shoal is the correct answer.

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

Given:
Statements:
I. Some books are tables.

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II. All tables are chairs.

According to the statement:

Conclusions:

I. All books are chairs (False, It can be true but not definite.)

II. Some books are chairs (True, as it is in the statement that some books are tables and all the tables are chairs hence some books are chairs)

III. Some tables are book (True, as stated in the statement)

IV. All chairs are book (False, as only some books are table and table is inside the chair hence all chairs can't be books)

From the given statement the diagram is:

Hence, Only conclusion II and III follow.

Q36. Answer: (c) 60

Let the no. of fruit be denoted from F

Let the number of vegetables be denoted from V

According to the question:

V = 3F

If F = 1 then, V = 3

and V + F = 4

This means the sum of fruit and vegetables can be able to divide.

From the options only 60 is correct.

Hence, 60 is the correct answer.

Q37. Answer: (b) 184

According to the English Alphabet series and its positional value

The pattern followed is:

S + I + T+ U + A + T + I + O + N + 5;

19 + 9 + 20 + 21 + 1 + 20 + 9 + 15 + 14 + 5 = 133

Similarly,

CONSTITUTION be written as:

C + O + N + S + T + I + T + U + T + I + O + N + 5;

3 + 15 + 14 + 19 + 20 + 9 + 20 + 21 + 20 + 9 + 15 + 14 + 5 = 184

Hence, 184 is the correct answer.

Q38. Answer: (c) 38

The count of triangles in the figure is:

Hence there are 38 triangles in the diagram.

Q39. Answer: (d) 4

from dice,

and

1. We get, 3 is the Opposite side of 6, as 5 and 2 are there.

2.

and

we get, 1 is the Opposite side of 2, as 5 and 3 are there.

so, as per the option, we can say that 4 must be the opposite face of 5.

and

From dice 2 and 3 as 6 is constant so, if we rotate anticlockwise/clockwise direction then we get

1 → 2

5 → 4

So, 4 will come opposite to 5.

Q40. Answer: (c) abeaacdecdeecd

Given series:

a_ _ccde_ _ _bc_ _ _eaabc_ _ _ _aabc_ _ee

Using option 1)
aacccdeb / debccdee / aabcaace / aabccdee
No logical pattern is formed.
Using option 2)
aabccdec / debccdee / aabcecde / aabcaaee
No logical pattern is formed
Using option 3)
aabccdee / aabccdee / aabccdee / aabccdee
Logical pattern followed
Using option 4)
aabccdeb / aabccdee / aabcecde / aabccdee
No pattern followed.
Hence, abeaacdecdeecd is the correct answer.

Q41. Answer: (c) Father-in-Law

The diagram and symbols are:
According to the question:
Hence, Arvind is the Father-in-law of Shikha.

Q42. Answer: (a) 3, 2, 1, 5, 4

The given arrangements is of different body parts.
First eyes comes on top, then shoulder, then elbow
then knee and feet at the bottom.
The arrangement will be either top to bottom or bottom to top.
From the option only top to bottom arrangement is given.
Hence, correct order is 3, 2, 1, 5, 4.

Q43. Answer: (d) 8

According to the given option:
$529 = 23^2$
$49 = 7^2$
$9 = 3^2$
$8 = 2^3$
All are based on square, only one is cube based.
Hence, 8 is the odd one.

Q44. Answer: (b) [figure]

In the given figure:
The shaded part is moving anticlockwise by skipping one space.
Hence, option 2 will be the next figure.

Q45. Answer: (a) (4, 57, 11)

LOGIC:
Second number = (Third number)^2 - (First Number)^3
The pattern followed here is:
$7^2 - 2^3$;
49 - 8 = 41
Similarly,
$11^2 - 4^3$;
121 - 64 = 57
Other options are not following the pattern.
Hence, the correct answer is "(4, 57, 11)".

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Q46. Answer: (b) • and ×

Interchanging two signs according to the question:

Option 1

6 + 7 × 8 ÷ 21 - 7

Using BODMAS rule:

6 + 7 × 0.38 - 7

Not possible because decimal places are not in R.H.S

Option 2

6 × 7 + 8 - 21 ÷ 7

Using BODMAS rule:

42 + 8 - 3

47

It is true for RHS

Option 3

6 + 7 ÷ 8 - 21 × 7

6 + 0.8 - 21 × 7

Not possible because decimal places are not in RHS.

Option 4

6 - 7 × 8 + 21 ÷ 7

6 - 56 + 3

-47

Not possible because there is no negative sign in RHS.

Hence, option 2 is correct.

Q47. Answer: (c) ZYXC

According to the English Alphabet series:

In the given word, the pattern followed is:

Similarly,

Hence, ZYXC is the correct answer.

Q48. Answer: (a) [figure]

The mirror image of the given figure will be:

→

Hence, option 1 is correct.

Q49. Answer: (c) Fox

The given relationship of the same family animal.

Tiger and cats related to Felidae family.

Similarly,

Foxes are the closest ancestor of dogs.

Hence, Fox will be the correct option.

Additional information:

Jaguar : related to Felidae family

Lynx : related to Felidae family.

Q50. Answer: (c) [figure]

According to the given information:

Cow and dogs are animal.

But they are different from each other.

So, the Venn diagram for them will be the circle as a animal class consisting two circle, one of dog and other of cat.

Hence, Option 3 is correct.

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Q51. Answer: (d) Rs. 2,268

Given:

Total amount = Rs. 18,144

Ratio of three people in this amount = 3 : 5 : 8

Calculation:

Let the share of A, B, and C be 3x, 5x, and 8x respectively.

Sum of share of A, B, and C = Total amount

=> 3x + 5x + 8x = 18,144

=> 16x = 18,144

=> x = 1,134

The share of A = 3x

=> 3 × 1,134

=> 3,402

The share of B = 5x

=> 5 × 1,134

=> 5,670

The share of C = 8x

=> 8 × 1,134

=> 9,072

B gets more amount than A = The share of B – The share of A

=> 5,670 – 3,402

=> 2,268

Therefore B gets Rs. 2,268 more than A.

Shortcut Trick

Three people A, B, C in the ratio 3 : 5 : 8

Difference between A & B is (5 - 3) = 2 unit

So, (3 + 5 + 8) = 16 unit → 18144

Then, 2 unit → 18144/16 × 2 = 2268

Q52. Answer: (d) Rs. 126

Given:

The difference between the selling prices of some articles if sold for Rs. 12 per article instead of Rs. 9 per article is Rs. 150

Total cost price = Rs. 250

Formula Used:

Cost price per article = Total cost price/Number of article

Selling price = Number of article × Cost price × (100 + profit %)/100

Calculation:

Let the number of article be x.

Selling price at Rs. 12 per article – Selling price at Rs. 9 per article = 150

=> 12x – 9x = 150

=> 3x = 150

=> x = 50

Cost price per article = Total cost price/Number of article

=> 250/50

=> Rs. 5

Selling price = Number of article × Cost price × (100 + profit %)/100

=> 21 × 5 × (100 + 20)/100

=> 105 × 120/100

=> 126

Therefore The selling price of 21 articles with 20% profit is Rs. 126.

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Q53. Answer: (b) Economics

Average marks in Maths = (86 + 69 + 60 + 70 + 78 + 92)/6

=> 455/6

=> 75.8

3 students have more marks than the average marks.

Average marks in Economics = (98 + 58 + 70 + 80 + 73 + 74)/6

=> 453/6

=> 75.5

2 students have more marks than the average marks.

Average marks in Commerce = (76 + 66 + 84 + 65 + 82 + 68)/6

=> 441/6

=> 73.5

3 students have more marks than the average marks.

Average marks in Civil = (96 + 75 + 78 + 83 + 93 + 87)/6

=> 512/6

=> 85.3

3 students have more marks than the average marks.

Therefore Only 2 students crossed the average marks in Economics.

Q54. Answer: (d) Rs. 10,000

Given:

Total sum of simple interest on the loan for 3 years at r% and Simple interest on double the amount for next 5 years at (r – 2)% is 13,600.

Simple interest for 34/3 years on initial loan and initial rate is 13,600

Formula Used:

Simple Interest = P × r × t/100

Where P → Principal amount

r → Rate of interest

t → Time

Calculation:

Simple interest on the loan for 3 years at r% + Simple interest on double the loan amount for next 5 years at (r – 2)% = 13,600

=> [P × r × 3/100] + [2 × P × (r – 2) × 5/100] = 13,600

=> 3 × P × r + 10 × P × r – 20 × P = 13,600 × 100

=> 13 × P × r – 20 × P = 13,60,000 ---- (1)

Simple interest for 34/3 years on initial loan and initial rate = 13,600

=> (P × r × 34)/(3 × 100) = 13,600

=> P × r = 1,20,000 ---- (2)

Put the value of eq. (2) in eq. (1)

=> 13 × 1,20,000 – 20 × P = 13,60,000

=> 20 × P = 15,60,000 – 13,60,000

=> P = 2,00,000/20

=> P = 10,000

Therefore The initial loan amount is Rs. 10,000.

Q55. Answer: (b) (tan 28° tan 38°)/(tan 79°)

Given:

A tan62° sec28° cot38°/ cosec62° tan11° = 1

Concept:

If a + b = 90°, then tan a = cot b, and cosec a = sec b

tan a = 1/cot a

Calculation:

A tan62° sec28° cot38°/ cosec62° tan11° = 1

=> A = (cosec62° tan11°)/(tan62° sec28° cot38°)

=> A = (sec28° cot79°)/(cot28° sec28° cot38°)

=> A = cot79°/(cot28° cot38°)

=> A = (tan28° tan38°)/tan79°

Therefore The value of A is tan28° tan38°/tan79°.

Additional Information

Q56. Answer: (c) 12

Concept:

√a × √b = √(a × b)

Calculation:

5√3 + 7√2 – √6 – 23/(√2 + √3 + √6)

=> [(5√3 + 7√2 – √6) × (√2 + √3 + √6) – 23]/ (√2 + √3 + √6)

=> (5√6 + 15 + 15√2 + 14 + 7√6 + 14√3 – 2√3 – 3√2 – 6 – 23)/ (√2 + √3 + √6)

=> (12√6 + 12√2 + 12√3)/ (√2 + √3 + √6)

=> 12

Therefore The required value is 12.

Q57. Answer: (b) 322/323

Given:

A and B are acute angles.

sec A = 3 and cot B = 4

Formula used:

sec A = (Hypotenuse/Base), cosec A = (Hypotenuse/Perpendicular), cot A = (Base/Perpendicular)

cot B = (Base/Perpendicular), sin B = (Perpendicular/Hypotenuse), sec B = (Base/Hypotenuse)

Concept used:

Pythagoras theorem.

A and B are the angles of different right angle triangles.

Calculations:

sec A = 3

=> Hypotenuse = 3, Base = 1

By Pythagoras theorem,

=> Perpendicular = 2√2

cot B = 4

=> Base = 4, Perpendicular = 1

By Pythagoras theorem,

=> Hypotenuse = √17

Now,

(cosec² A + sin² B)/(cot² A + sec² B)

=> {(3/2√2)² + (1/√17)²}/{(1/2√2)² + (√17/4)²}

=> {(9/8) + (1/17)}/{(1/8) + (17/16)}

=> (161/136)/(19/16)

=> 322/323

Therefore The value of '(cosec2 A + sin2 B)/(cot2 A + sec2 B)' is (322/323).

Q58. Answer: (b) 16 days

Given:

27 people, working 8 hours a day, can complete a task in 12 days.

Formula used:

(M1 × D1 × H1)/W1 = (M2 × D2 × H2)/W2, where M, D, H, and W is the number of men, days, hours, and amount of work respectively.

Calculations:

=> Let the number of days required to complete the task by 18 people, working 9 hours per day is 'd'.

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(M1 × D1 × H1)/W1 = (M2 × D2 × H2)/W2
=> (M1 × D1 × H1)/W1 = (M2 × D2 × H2)/W2
=> (27 × 12 × 8)/1 = (18 × d × 9)/1
=> d = 16
Therefore The number of days required to complete the task by 18 people, working 9 hours per day is '16'.

Q59. Answer: (d) 31/60

Given:
AD = 3, DE = 4, AB = 12, BF = 2, FG = 6, BC = 10
M is the area of the quadrilateral FGDE and N is the area of the triangle ABC.
Formula used:
Area of triangle = 1/2 × Multiple of adjacent sides × sin(Angle between those sides)
Calculations:
Area of ΔEBF = 1/2 × BE × BF × sinB
=> 1/2 × 5 × 2 × sinB (BE = AB - AD - DE)
=> 5 × sinB
Area of ΔDBG = 1/2 × BD × BG × sinB
=> 1/2 × 9 × 8 × sinB
=> 36 × sinB
Area of ΔABC = 1/2 × BA × BC × sinB
=> 1/2 × 12 × 10 × sinB
=> 60 × sinB
Area of quadrilateral FGDE(M) = Area of ΔDBG - Area of ΔEBF
=> 36sinB - 5sinB
=> 31sinB
Area of ΔABC(N) = 60sinB
=> M/N = (31sinB)/(60sinB)
=> 31/60
Therefore The value of (M/N) is 31/60.

Q60. Answer: (c) 66°

Given:
ABCDE is a regular pentagon.
Formula used:
In a regular polygon of side 'n',
Each angle = {(n - 2) × 180°}/n
Concept used:
Sum of two angles forming a linear pair is 180°.
Sum of interior angles of Δ is 180°.
Calculations:
Each interior angle of the regular pentagon ABCDE = {(n - 2) × 180°}/n
=> {(5 - 2) × 180°}/5
=> {3 × 180°}/5
=> 108°
=> angle ABC = 108°
=> angle BAE = 108° ----(1)
=> angle BAJ + angle BAE = 180° (Because Sum of two angles forming a linear pair is 180°.)
=> angle BAJ + 108° = 180°
=> angle BAJ = 72° ----(2)
Similarly,
=> angle GED = 72°, angle GDE = 72°
=> angle GED + angle GDE + angle EGD = 180° (Because Sum of interior angles of Δ is 180°.)

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=> angle EGD = 36° ----(3)
From (1), (2) and (3),
=> (angle ABC + 2angle EGD + 3angle BAJ)/6
=> (108° + 2 × 36° + 3 × 72°)/6
=> 66°
Therefore The value of (angle ABC + 2angle EGD + 3angle BAJ)/6 is 66°.

Q61. Answer: (d) 179°

Given:
angle CDE = 85°; angle DCF = 94°
Concept used:
Sum of two angles forming a linear pair is 180°.
Sum of opposite angle of cyclic quadrilateral is 180°.
Calculations:
angle CDE + angle ADC = 180° (Because Sum of two angles forming a linear pair is 180°.)
=> 85° + angle ADC = 180°
=> angle ADC = 95°
Now,
angle ABC + angle ADC = 180° (Because Sum of opposite angle of cyclic quadrilateral is 180°.)
=> angle ABC + 95° = 180°
=> angle ABC = 85°
=> angle ABF = 85° ----(1)
Similarly,
=> angle EAB = 94° ----(2)
From (1) and (2),
=> angle ABF + angle EAB = 179°
Therefore The value of angle ABF + angle EAB is 179°.

Q62. Answer: (a) D; A

Average production by company A = (23 + 26 + 28 + 25 + 30)/5
=> 26.4
Average production by company B = (25 + 29 + 27 + 35 + 31)/5
=> 29.4
Average production by company C = (28 + 31 + 36 + 28 + 35)/5
=> 31.6
Average production by company D = (32 + 35 + 40 + 46 + 50)/5
=> 40.6
We can clearly see that,
Highest average production = D
Lowest average production = A
Therefore The average production is highest in company D and lowest in the company A.

Q63. Answer: (a) 2000

Given:
A crate of fruits contains one spoiled fruit for every 25 fruits.
60% of the spoiled fruits were sold.
The seller had sold 48 spoiled fruits.
Formula used:
Number of unspoiled fruits = Total fruits - Spoiled fruits
Calculations:
Let the total number of fruits in the crate be 'x'.
According to the question,
Number of spoiled fruits sold = 48

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=> x × (1/25) × (60/100) = 48
=> x = 2000
Therefore The number of fruits is 2000.
Shortcut Trick
According to the question,
=> 60% → 48 spoiled fruit
Then, 100% → 48/60 × 100 = 80 spoiled fruit
So, the seller had a total number of spoiled fruit is 80
Now, 1 spoiled fruit for every 25 fruits
Then, 80 spoiled fruit for (25 × 80) = 2000 fruits

Q64. Answer: (b) 7 hours 28 minutes

Given:
Base area of the tank =180 m × 140 m
Area of cross-section of the pipe = 1.2 m × 0.75 m
Velocity of flow = 15 km / h.
Formula used:
Discharge of water = Volume of a tank upto water level in the tank.
Discharge of water = Area of cross-section of pipe × Velocity of flow
Calculations:
Let in 'x' hours the water level in the tank rise by 4 m.
Discharge of water = Volume of a tank upto water level in the tank.
Discharge of water = Area of cross-section of pipe × Velocity of flow
From above two formulae,
=> Area of cross-section of pipe × Velocity of flow = Volume of a tank upto water level in the tank
=> 1.2 × 0.75 × 15000 × x = 180 × 140 × 4
=> x = 112/15
=> x = 7 hours 28 minutes
Therefore The water level in the tank rise by 4 m in 7 hours 28 minutes.

Q65. Answer: (d) 5%

Given:
Discount1% (D1%) = 20%
Discount2% (D2%) = x%
Overall discount% (D%) = 24%
Formula used:
SP = MP × (100 – D%)/100
Where SP is selling price, MP is marked price and D% is discount%
Calculation:
Let the marked price be 100
SP after first discount = MP × (100 – D1%)/100
=> SP after first discount = 100 × (100 – 20)/100
=> SP after first discount = 80
SP after second discount = SP after first discount × (100 – D2%)/100
=> SP after second discount = 80 × (100 – x)/100
=> SP after second discount = (100 – x) × 4/5
SP after overall discount = MP × (100 – D%)/100
=> SP after overall discount = 100 × (100 – 24)/100
=> SP after overall discount = 76
SP after second discount = 76
=> (100 – x) × 4/5 = 76
=> 100 – x = 76 × (4/5)

=> 100 – x = 95
=> x = 100 – 95
=> x = 5
Therefore x% is 5%
By using successive formula for percentage change = (x + y + xy/100)%
Overall discount% = –D1 –D2 + [–D1 × (–D2)]/100 (Here negative sign is to represent percentage decrease)
=> –24 = –20 –x + [–20 × (–x)]/100
=> –24 = –20 –x + x/5
=> x – x/5 = 4
=> 4x/5 = 4
Therefore x% is 5%

Q66. Answer: (b) 5 hours

Given:
Speed of first train while travelling from P to Q = 126 km/hr
Speed of first train while travelling from Q to P = 90 km/hr
Another train travels with the average speed of first train.
Distance to be covered by second train = 525 km
Formula used:
Time = Distance/Speed
Average speed = Total Distance/Total time
Calculation:
Let the distance between P and Q be D km
Time taken by first train to travel P to Q = D/126 hours
Time taken by first train to travel Q to P = D/90 hours
Total time taken by first train = D/126 + D/90 = 12D/630
Average speed of first train = Total Distance/Total time
=> Average speed of first train = 2D/(12D/630)
=> Average speed of first train = 630/6
=> Average speed of first train = 105 km/hr
Speed of second train = average speed of first train = 105 km/hr
Time taken by second train = Distance/Speed = 525/105
=> Time taken by second train = 5 hours
Therefore Time taken by first train to travel 525 km is 5 hours
Alternate Method
Formula used:Average speed of a train when it travels the same distance with different speed = (2 × S1 × S2)/(S1 + S2)
Where S1 and S2 are speed of the train travelling the same distance.
Calculation:
Average speed of first train = (2 × 126 × 90)/(126 + 90)
=> Average speed of first train = 22680/216
=> Average speed of first train = 105 km/hr
Speed of second train = average speed of first train = 105 km/hr
Time taken by second train = Distance/Speed = 525/105
=> Time taken by second train = 5 hours
Therefore Time taken by first train to travel 525 km is 5 hours

Q67. Answer: (c) 1/81

Concept used:
Follow BODMAS rule to solve this question, as per the order given below,
Now,
Calculation:
$[5\ 4/9 \div (1/1\ 4 - 1/3\ 6)^2] \div [73/11 \text{ of } 8\ 4/5 \div 1\ 5/7 - 4/3]^2$

=> [49/9 ÷ ((33 - 26)/12)²] ÷ [80/11 of 44/5 ÷ 12/7 - 4/3]²

=> [49/9 × 144/49] ÷ [64 × 7/12 - 4/3]²

=> 16 ÷ [112/3 – 4/3]²

=> 16 ÷ 36²

=> 16/1296

Therefore 1/81

Q68. Answer: (a) 1

Given:

tan4 x - tan2 x = 1

Formula used:

sec²x = 1 + tan²x

tanx = sinx/cosx

sin²x + cos²x = 1

Calcuation:

tan4 x - tan2 x = 1

=> tan4 x = 1 + tan2 x

=> tan4 x = sec²x

=> sin^4x/cos^4x = 1/cos²x

=> sin^4x = cos²x

We have to find the value of sin4 x + sin2 x

=> sin4 x + sin2 x = cos²x + sin²x

Therefore sin4 x + sin2 x is 1

Q69. Answer: (b) 265

Given:

Sum of 17 consecutive numbers = 289

First term of another 10 consecutive numbers is 5 more than the average of 17 consecutive numbers

Formula used:

Average = Sum of all observations/Total number of observations

Sum of A.P. = n/2 × (a + l)

Where A.P. is arithmetic progression, a is first term and l is last term

Calculation:

Average of 17 consecutive numbers = Sum of all numbers/Total numbers

=> Average of 17 consecutive numbers = 289/17

=> Average of 17 consecutive numbers = 17

First term (a) of another 10 consecutive numbers = 17 + 5 = 22

The numbers are 22, 23, 24, 25, 26, 27, 28, 29, 30, 31

Last term (l) of 10 consecutive numbers = 31

As consecutive numbers are always in A.P.

Sum of 10 numbers = n/2 × (a + l)

=> Sum of 10 numbers = 10/2 × (22 + 31)

=> Sum of 10 numbers = 5 × 53

Therefore Sum of 10 consecutive numbers is 265

Q70. Answer: (c) B6

Given:

Branches	2016 Interest on loans (in crores)	2017 Interest on loans (in crores)	2018 Interest on loans (in crores)
B1	43	52	65
B2	54	63	78

B3	28	35	50
B4	34	40	48
B5	48	56	64
B6	25	38	52

Formula used:

Rate of change (in percentage) = (Difference/Initial value) × 100

Where, difference = Final value – Initial value

Calculation:

Rate of change (in percentage) = (Difference of loan collected)/Interest on loan collected in 2016) × 100

Where, difference of loan collected = Interest on loan collected in 2017 – Interest on loan collected in 2016

Branches	2016 Interest on loans (in crores)	2017 Interest on loans (in crores)	Rate (in percentage)
B1	43	52	20.93
B2	54	63	16.66
B3	28	35	25
B4	34	40	17.64
B5	48	56	16.66
B6	25	38	52

Therefore Highest rate of collection is for the branch B6

Q71. Answer: (c) 4 : 1

Formula used:

Area of square = Side²

Calculation:

Let the length of Biggest square be 8x unit

Diameter of the bigger circle = Side of the biggest square = 8x unit

=> AB = 8x units

In ΔABC

$AB^2 = AC^2 + BC^2$

$\Rightarrow AB^2 = 2AC^2$

$\Rightarrow (8x)^2 = 2AC^2$

$\Rightarrow AC^2 = (64x^2)/2$

$\Rightarrow AC^2 = 32x^2$

$\Rightarrow AC = 4\sqrt{2}x$ units

Now, AC is the diameter of the smaller circle

$\Rightarrow EF = 4\sqrt{2}x$ units

In ΔEDF

$EF^2 = DE^2 + DF^2$

$\Rightarrow EF^2 = 2 \times DE^2$

$\Rightarrow (4\sqrt{2}x)^2 = 2 \times DE2$

$\Rightarrow DE^2 = 16x$

$\Rightarrow DE = 4x$ unit

Side of smallest square = 4x unit

Area of biggest square = $(8x)^2 = 64x^2$ unit²

Area of smallest square = $(4x)^2 = 16x^2$ unit2

Ratio of Area of largest square to Area of smallest square = $64x^2 : 16x^2$

Therefore Area of largest square : Area of smallest square is 4 : 1

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Q72. Answer: (a) 11

Given:

Given number is 1a765b12

The number is divisible by 72

Concept used:

If a number is divisible by a number x which can be expressed as p × q, where gcd(p,q) is 1, then the number is divisible by both p and q.

If a number is divisible by 8 then the number formed by the last three digits of the number is also divisible by 8.

If sum of digits of a number is divisible by 9 then the number is divisible by 9.

Calculation:

As, 1a765b12 is divisible by 72

=> 1a765b12 is divisible by both 8 and 9

Check the divisibility by 9

Sum of digits = 1 + a + 7 + 6 + 5 + b + 1 + 2 = 22 + a + b

As we need to calculate the least value of the expression then closest value to 22 which is divisible by 9 is 27.

=> 22 + a + b = 27

=> a + b = 5

Check the divisibility by 8

Last three digits i.e. b12 should be divisible by 8

For b = 0, 012 = 12 is not divisible by 8

For b = 1, 112 is divisible by 8

least value of b is 1

=> a + 1 = 5

=> a = 4

We have to find the least value of 2a + 3b

=> 2 × 4 + 3 × 1

Therefore Least value of 2a + 3b is 11

Q73. Answer: (b) 5

GIVEN:

(3^(a+3) × 4^(a+6) × 25^(a+1))/(27^(a-1)× 8^(a-2)× 125^(a+4)) = 4/(15^(26))

CONCEPT USED:

CALCULATION:

(3^(a+3) × 4^(a+6) × 25^(a+1))/(27^(a-1)× 8^(a-2)× 125^(a+4)) = 4/(15^(26))

=> (3^a × 3^3 × 4^a × 4^6 × 5^(2a) × 5^2)/(3^(3a) × 3^(- 3) × 2^(3a) × 2^(- 6) × 5^(3a) × 5^{12}) = 4/(15^(26))

=> (3^(a - 3a) × 3^6 × 2^(2a + 12) × 5^(- a) × 5^(- 10))/(2^(3a - 6)) = 2^2 × 5^(- 26) × 3^(- 26)

=> 3^(- 2a + 6) × 2^(- a + 18) × 5^(- a - 10) = 2^2 × 5^(- 26) × 3^(- 26)

On comparing exponent of 3, 2, and 5 both side

=> -2a + 6 = -26

=> -2a = -32

=> a = 16

=> √a + 9

=> √16 + 9

=> √25

Therefore √a + 9 = 5

Q74. Answer: (a) 36

GIVEN:

x + y = 14 and x3 + y3 = 1064 and xy = 40

FORMULA USED:

$(x^3 + y^3) = (x + y)(x^2 + y^2 - xy)$ and $(x - y)^2 = (x^2 + y^2 - 2xy)$

CALCULATION:

(x3 + y3) = (x + y) (x2 + y2 - xy)
=> 1064 = 14 × (x2 + y2- 2xy + xy)
=> 76 = (x - y)² + xy
=> 76 - 40 = (x - y)²
=> (x - y)² = 36
Therefore (x - y)2 = 36
Shortcut Trick
According to the question, x + y = 14 and xy = 40,
So, we can assume x = 10 and y = 4,
Which satisfies the given equation x3 + y3 = 1064
Now, the value of (x - y)² will be
=> (10 - 4)² = 36

Q75. Answer: (d) 4992

Courses	% passed out
A	76
B	82
C	80
D	90
E	75

Courses	% passed out	% Failed
A	76	24
B	82	18
C	80	20
D	90	10
E	75	25

=> the total number of students is 60000
=> 100% = 60000
=> 1% = 600
=> Number of students in A = 18%
=> 18 × 600 = 10800
=> Number of students in C = 20%
=> 20 × 600 = 12000
=> Number of students failed in course A & C = (24% of 10800 + 20% of 12000)
=> (24 × 108 + 20 × 120)
=> (2592 + 2400)
=> 4992
Therefore The number of students of Courses A & C who did not pass is 4992

Q76. Answer: (c) Rohtang Pass

The Correct Answer is Rohtang Pass.
Key Points
Rohtang Pass
• It is a high mountain pass on the eastern end of the Pir Panjal Range of the Himalayas around 51 km from Manali.
• It connects the Kullu Valley with the Lahaul and Spiti Valleys of Himachal Pradesh.
• It links Manali and Leh by road.
Mistake PointsThere is confusion between Baralacha Pass and Rohtang Pass, but Rohtang Pass is the official answer given by SSC.

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Important Points

Banihal Pass

• Banihal Pass is a mountain pass across the Pir Panjal Range at a maximum elevation of 2,832 m.

• It connects the Kashmir Valley in the union territory of Jammu and Kashmir to the outer Himalayas and the plains to the south.

Baralachala Pass

• It is a high mountain pass in the Zanskar range, connecting the Lahaul district in Himachal Pradesh to Leh district in Ladakh.

• It is situated along the Leh–Manali Highway.

Nathula Pass

• Nathu La is a mountain pass in the Himalayas in the East Sikkim district.

• It connects the Indian state of Sikkim with China's Tibet Autonomous Region.

Q77. Answer: (c) Australia

The correct answer is Australia.

Key Points

• Australia is in Number 1 position with 275 ratings.

• India is in Number 3 position with 262 ratings.

Additional Information

ICC:

• The International Cricket Council (ICC) is the world governing body of cricket.

• It was founded as the Imperial Cricket Conference in 1909 by representatives from Australia, England, and South Africa.

• It was renamed the International Cricket Conference in 1965 and took up its current name in 1989.

• ICC is headquartered in Dubai.

Q78. Answer: (d) Renée Zellweger

The correct answer is Renée Zellweger.

• Renée Zellweger won the ‘Golden Globe 2020 award’ for ‘Best Performance by an Actress in a Motion Picture – Drama for the movie Judy.

Additional Information

• Renée Kathleen Zellweger is an American actress.

• She is the recipient of numerous accolades, including two Academy Awards and four Golden Globe Awards.

• Charlize Theron is a South African and American actress and producer

• Elizabeth Greer "Beanie" Feldstein is an American actress and singer.

• Cynthia Onyedinmanasu Chinasaokwu Erivo is an English actress, singer and songwriter.

• She is the recipient of several accolades, including an Emmy Award, a Tony Award, and a Grammy Award, and has been nominated for two Academy Award.

Q79. Answer: (d) Aravali

The correct answer is Aravali.

Key Points

• The Thar Desert lies towards the western margins of the Aravali Hills.

• It is an undulating sandy plain covered with sand dunes.

• It forms a natural boundary between India and Pakistan.

• It is the world's 17th largest desert and the world's 9th largest hot subtropical desert.

Additional Information

Aravali:

• The Aravali Range is a mountain range in Northwestern India.

• It runs approximately 692 km in a southwest direction, starting near Delhi, passing through southern Haryana and Rajasthan, and ending in Gujarat.

• The highest peak is Guru Shikhar at 1,722 metres.

Q80. Answer: (c) Rafael Nadal

The correct answer is Rafael Nadal.

• Rafael "Rafa" Nadal Parera is a Spanish professional tennis player.

• As of 15 January 2020, he was ranked number one ranked male tennis player in the ATP rankings.

• At present (1st December 2020), he is ranked No. 2 in the world by the Association of Tennis Professionals (ATP).

Important Points

• Daniil Sergeyevich Medvedev is a Russian professional tennis player.

• Roger Federer is a Swiss professional tennis player.

• He is ranked No. 5 in the world by the Association of Tennis Profession.

• Novak Djokovic is a Serbian professional tennis player.

• He is currently ranked as world No. 1 by the Association of Tennis Professionals.

Q81. Answer: (b) Wheat

The correct answer is Wheat.

Key Points

Rabi Season

• It starts with the beginning of winter and continues till the beginning of summer (October-December to April-June).

• The Rabi crops include wheat, barley, gram, and oilseeds.

• Availability of precipitation during winter months due to the western temperate cyclones help in the success of these crops.

Additional Information

• Jowar, Bajra, and Ragi are the important millets grown in India.

• Jowar, Bajra, and Tur are Kharif Crops.

Q82. Answer: (b) Uniform Resource Locator

The correct answer is Uniform Resource Locator.

Key Points

• URL stands for Uniform Resource Locator.

• A URL is nothing more than the address of a given unique resource on the Web.

• Each valid URL points to a unique resource.

• Such resources can be an HTML page, a CSS document, an image, etc.

Examples of URLs:

• https://www.yourmocktest.com

Q83. Answer: (a) Abdul Ghaffar Khan

The correct answer is Abdul Ghaffar Khan.

Key Points

• Abdul Ghaffar Khan was awarded the Bharat Ratna in 1987.

• Nelson Mandela was awarded the Bharat Ratna in 1990.

• The award also has been awarded to a naturalized Indian citizen, Agnes Gonxha Bojaxhiu, better known as Mother Teresa (1980).

Important Points

Abdul Ghaffar Khan

• Abdul Ghaffar Khan is Widely known as "Frontier Gandhi".

• He was an independent activist and Pashtun leader Khan was a follower of Mahatma Gandhi.

• He joined Khilafat Movement in 1920 and founded Khudai Khidmatgar ("Red Shirt movement") in 1929.

Additional Information

• Bharat Ratna is the highest civilian honor, given for exceptional service towards the advancement of Art, Literature, and Science, and in recognition of Public Service of the highest order.

• It is also not mandatory that Bharat Ratna be awarded every year.

• The provision of Bharat Ratna was introduced in 1954.

• The first-ever Indian to receive this award was the famous scientist, Chandrasekhara Venkata Raman.

Q84. Answer: (c) Modem

The correct answer is Modem.

Key Points

• A Modem (Modulator-Demodulator) is a hardware component that allows a computer or another device, such as a router or switch, to connect to the Internet.

• It converts or "modulates" an analog signal from a telephone or cable wire to digital data (1s and 0s) that a computer can

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recognize.

• It can also convert digital data from a computer or other device into an analog signal that can be sent over standard telephone lines.

Additional Information

• Modems are not needed for fiber optic connections because the signals are transmitted digitally from beginning to end.

Q85. Answer: (b) Virat Kohli

The correct answer is Virat Kohli.

• Virat Kohli won the 2019 ICC's Spirit of Cricket Awards.

Key Points

• The Spirit of the Cricket is an award by the ICC awarded to the team most notable for upholding the 'Spirit of the Game', involving respect for

• Their opponents.

• Their own captain and team.

• The role of the umpires.

Additional Information

ICC

• The International Cricket Council is the world governing body of cricket.

• It was founded as the Imperial Cricket Conference in 1909 by representatives from Australia, England, and South Africa.

Q86. Answer: (d) Socialist

The correct answer is Socialist.

Key Points

• The Preamble to the Indian Constitution is based on the ‘Objectives Resolution’, drafted and moved by Pandit Nehru, and adopted by the Constituent Assembly.

• It has been amended by the 42nd Constitutional Amendment Act (1976).

• This amendment added three new words– Socialist, Secular and Integrity.

Important PointsSocialist

• The Indian form of socialism holds faith in a ‘mixed economy’ where both public and private sectors co-exist side by side.

• Democratic socialism aims to end poverty, ignorance, disease and inequality of opportunity.

Justice

• The term ‘justice’ in the Preamble embraces three distinct forms

• social, economic, and political

• The Justice is secured through various provisions of Fundamental Rights and Directive Principles.

Equality

• The term ‘equality’ means the absence of special privileges to any section of the society, and the provision of adequate opportunities for all individuals without any discrimination.

Liberty

• The term ‘liberty’ means the absence of restraints on the activities of individuals, and at the same time, providing opportunities for the development of individual personalities.

Q87. Answer: (b) Lucknow

The correct answer is Lucknow.

Important Points

• The Chikankari embroidery is a traditional embroidery style from Lucknow.

• It is one of Lucknow's best-known textile decoration styles.

• Chikan is a delicate and artfully done hand embroidery on a variety of textile fabrics like muslin, silk, chiffon, organza, net, etc.

• White thread is embroidered on cool, pastel shades of light muslin and cotton garments.

• The market for local chikan is mainly in Chowk, Lucknow.

Q88. Answer: (d) Hydrogen

The correct answer is Hydrogen.

Key Points

• Hydrogen element occurs most abundantly in our universe.

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• Hydrogen has just one proton and one electron.
• it's the only element without a neutron.
• The simplest form of the element makes it abundant in the universe.

Important Points

• There are only 11 elements that are gaseous.
• Of those 11 elements, hydrogen and helium make up the majority of the star, with hydrogen at 75% and helium at 23%.

Additional Information

• The ten most abundant elements in the universe in decreasing order of abundance are:

1. Hydrogen
2. Helium
3. Oxygen
4. Carbon
5. Neon
6. Nitrogen
7. Magnesium
8. Silicon
9. Iron
10. Sulfur

Q89. Answer: (a) Candela

The correct answer is Candela.

Key Points

• Luminous intensity is a measure of the wavelength-weighted power emitted by a light source in a particular direction per unit solid angle based on the luminosity function, a standardized model of the sensitivity of the human eye.
• The SI unit of luminous intensity is the candela (cd).

Important Points

• One mole of any species (atoms, molecules, ions, or particles) is the quantity in numbers of that mass unit.
• The number of particles (atoms, molecules, or ions) present in 1 mole of any substance is fixed, with a value of 6.022 × 10^(23.)
• The Kelvin is the base unit of temperature.
• Ampere is the base unit of electric current.
• It is named after André-Marie Ampère.

Q90. Answer: (c) Abul Fazl

The correct answer is Abul Fazl.

Key Points

• The Akbarnama is the official chronicle of the reign of Akbar.
• It was written by his court historian and biographer, Abu'l-Fazl ibn Mubarak.
• He was one of the "nine jewels in Akbar's court".
• It was written in Persian.

Important Points

• Amir Khushro was a Sufi mystic and a spiritual disciple of Nizamuddin Auliya.
• His Khaliq-e-bari, which is known as the oldest printed dictionary of the world deals with Hindi and Persian words.
• He is regarded as the “father of qawwali”.

Q91. Answer: (c) Services

The correct answer is Services.

• The 2019 Santosh Trophy Final was played between Services and Punjab on 21 April 2019 in Ludhiana.
• Services won by defeating Punjab 1–0.

Additional Information

• The Santosh Trophy is an association football knock-out competition contested by the regional state associations and government institutions under the All India Football Federation (AIFF|).
• This is held annually since 1941.
• Bengal was the first winner of the competition held in 1941.

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Q92. Answer: (b) Central Statistical Organization

The correct answer is Central Statistical Organization.

• The national income estimates are being prepared by the Central Statistical Organisation.

• The Central Statistics Office is a governmental agency in India under the Ministry of Statistics and Programme Implementation.

Important Points

Finance Commission

• The Finance Commission is Constitutionally set up under Article 280 of the Constitution.

• The 15th Finance Commission is headed by N K Singh.

• It is created every five years to recommend the transfer of financial resources from the Centre to the States.

IRDA

• IRDA is the regulatory body in India that governs both Life insurance and General insurance companies.

NITI Aayog

• National Institution for Transforming India, or NITI Aayog, was created as an alternative to the Planning Commission in 2015.

• It is established with the aim to achieve sustainable development goals with cooperative federalism by fostering the involvement of State Governments of India in the economic policy-making process using a bottom-up approach.

Additional Information

• Dadabhai Naoroji made the first national income estimates for the year 1867-68 in 1876.

Q93. Answer: (a) Rs. 5 lakh

The correct answer is Rs. 5 lakh.

Key Points

• Under the Yashaswini scheme, women self-help groups are be given interest-free loans of up to Rs. Five lakh for business.

• The Scheme was launched by Union Minister for Women and Child Development and Textiles, Smriti Irani.

• The launching event was held at Dr Shyama Prasad Mukherjee Stadium at Taleigao near Panaji.

Q94. Answer: (d) J Chadwick

The correct answer is J. Chadwick.

Key Points

• In 1932, J. Chadwick discovered another subatomic particle and was named neutron.

• Neutrons are present in the nucleus of all atoms, except hydrogen.

• In general, a neutron is represented as ‘n'.

Important Points

• J.J. Thomson was the first one to propose a model for the structure of an atom.

• The electron was identified by J.J. Thomson.

• Ernest Rutherford postulated the nuclear structure of the atom.

• Proton was discovered by Ernest Rutherford.

• Joule studied the nature of heat and discovered its relationship to mechanical work.

• This led to the law of conservation of energy.

Q95. Answer: (a) Bhagat Singh

The correct answer is Bhagat Singh.

Key Points

• Kakori Train Robbery near Kakori, Lucknow was done in 1925 by Hindustan Republican Association.

• The plan was executed by Chandra Shekhar Azad, Ram Prasad Bismil, Ashfaqulla Khan, Rajendra Lahiri, and Manmathnath Gupta.

• The result was the arrest of some 30 people and all of them were trailed in the Kakori Conspiracy Case.

Additional InformationHindustan Republican Association

• HRA was a revolutionary organization of India established in 1924 in East Bengal by Sachindra Nath Sanyal, Narendra Mohan Sen, and Pratul Ganguly as an offshoot of Anushilan Samiti.

• Members: Bhagat Singh, Chandra Shekhar Azad, Sukhdev, Ram Prasad Bismil, Roshan Singh, Ashfaqulla Khan, Rajendra Lahiri.

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Q96. Answer: (d) West Bengal

The correct answer is West Bengal.

Key Points

• Bishnupur is a city and a municipality of Bankura district in the state of West Bengal.

• It is famous for its terracotta temples built by the Malla rulers, Shree Krishna Raasleela, and the Baluchari sarees.

• Since 1997, the temples of Bishnupur is on the UNESCO World Heritage Site's Tentative list.

Q97. Answer: (a) 12 members

The correct answer is 12 members.

Key Points

• Under article 80 of the Constitution, the Council of States (Rajya Sabha) is composed of not more than 250 members.

• 12 are nominated by the President of India from amongst persons who have special knowledge or practical experience in respect of such matters as literature, science, art, and social service.

Important Points

• By nominating them to Rajya Sabha, the State not only recognizes their merit and confers honor on them, but also enables them to enrich the debates by their expertise and knowledge that they have in different areas.

Q98. Answer: (d) 11

The Correct Answer is 11.

Key Points

• Total Biosphere Reserves in India: 18

• 11 biosphere reserves of India which have been recognized internationally under the Man and Biosphere Reserve program:

1	Nilgiri
2	Nanda Devi
3	Nokrek
4	Great Nicobar
5	Gulf of Mannar
6	Manas
7	Sunderbans
8	Simlipal
9	Dibru-Saikhowa
10	Dehang-Dibang
11	Pachmarhi
12	Khangchendzonga
13	Agasthyamalai
14	Achanakamar - Amarkantak
15	Kachchh
16	Cold Desert
17	Seshachalam Hills
18	Panna

Additional Information

• Biosphere Reserve (BR) is an international designation by the United Nations Educational, Scientific, and Cultural Organization (UNESCO).

• Biosphere Reserves are special environments for both people and nature and are living examples of how human beings and nature can co-exist while respecting each others' needs.

• Eighteen biosphere reserves have been set up in India to protect flora and fauna.

• 12 out of these, Sundarbans, Nanda Devi, Gulf of Mannar, Nilgiri, Nokrek, Great Nicobar, Manas, Simpala, Pachmarhi

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Achanakmar-Amarkantak, Agasthyamala, Khangchendzonga National Park, and Panna have been included in the World network of biosphere reserves.

• The World network of biosphere reserves is part of the UNESCO Man and Biosphere Project.

• Recently, UNESCO has included the Panna National Park in its World Network of Biosphere Reserves.

• Panna National Park is a national park located in the Panna and Chhatarpur districts of Madhya Pradesh.

• It was established in 1981.

• It was declared as the 22nd Tiger reserve of India in 1993 and the 5th in Madhya Pradesh.

Q99. Answer: (a) Article 131

The correct answer is Article 131.

In News

• Recently, the Kerala government filed a civil lawsuit in the Supreme Court (SC) challenging the Citizenship Amendment Act (CAA) 2019, under the provisions of Article 131 of the Indian Constitution.

Important Points

Article-131

• The Supreme Court has Original jurisdiction to decide the disputes arising between different units of the Indian Federation like:

• Centre and one or more states; or

• Centre & any state(s) on one side and one or more states on the other; or

• Two or more states.

Additional Information

Article 368

• Article 368 in Part XX of the Constitution deals with the power of parliament to amend the constitution and its procedures.

Article 23

• Article 23 deals with the prohibition of traffic in human beings and forced labour.

Article 17

• Article 17 deals with the abolition of Untouchability.

• "Untouchability" is abolished and its practice in any form is forbidden.

• The enforcement of any disability arising out of "Untouchability" shall be an offence punishable in accordance with the law.

Q100. Answer: (c) Trading

The correct answer is Trading.

Key Points

Tertiary Sector:

• The sector that helps in the development of the Primary and Secondary sectors through providing services.

• Transport, communication, banking, storage, trade, etc. all come under the tertiary or service sector.

• However, it also includes services that don't help directly in producing goods.

• E.g. education, healthcare, information technologies, network operators, etc.

Important Points

Primary Sector

• Primary Sector: the sector that includes natural products like agricultural goods (rice, wheat, cotton, etc.) produced by exploiting the natural resources of the earth.

• Dairy, fishing, forestry and minerals, and ores are also natural products and therefore activities involved in attaining those products also fall under the primary sector.

Secondary Sector

• Secondary Sector: the sector that includes goods that are transformed from natural products through industrial activities or manufacturing.

• It includes artificial techniques which change the form of natural products.

• E.g.: making clothes using cotton fiber from the plant. It is also called the Industrial Sector.

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