SSC CHSL Tier-1 2024: Official Paper (Held On: 09 Jul, 2024 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2024 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Mahima is as smarter as Shilpi.

(a) most smart as
(b) as smart as
(c) more smart as
(d) smartest than

Q2. The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.

She / did not watched / Frankenstein / last night.

(a) last night.
(b) did not watched
(c) She
(d) Frankenstein

Q3. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The workers called out / the strike because / the management acceded to / all their demands.

(a) all their demands
(b) the strike because
(c) the management acceded to
(d) The workers called out

Q4. The given sentence is divided into four segments. Identify the segment that contains a grammatical error.

A company can / make money by / obtain resources / more affordably.

(a) make money by
(b) obtain resources
(c) A company can
(d) more affordably.

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Conversation is indeed the (1)_____ teachable of all arts. All you need to do in order to become a good conversationalist is to find a (2)_____ that interests you and your listeners. But the important thing is that you must talk about the other (3)_____ hobby rather than your own. Therein lies the secret of your (4)_____. Talk to your friends about the things that interest them, and you will get a reputation for good fellowship, charming wit, and a brilliant mind. There is nothing that (5)_____ people so much as your interest in their interest.

Q5. Select the most appropriate option to fill in blank number 1.

(a) most easily
(b) most occasionally
(c) more easily
(d) more likely

Q6. Select the most appropriate option to fill in blank number 2.

(a) luxury
(b) credit
(c) subject
(d) result

Q7. Select the most appropriate option to fill in blank number 3.

(a) self's
(b) fellow's
(c) victim's
(d) worker's

Q8. Select the most appropriate option to fill in blank number 4.

(a) popularity
(b) irrationality
(c) capacity
(d) audacity

Q9. Select the most appropriate option to fill in blank number 5.

(a) admits
(b) pleases
(c) accompanies
(d) advances

Q10. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Bill Gates' fortune was bequeathed for the old age home.

(a) into the old age home
(b) to the old age home
(c) with the old age home
(d) by the old age home

Q11. Choose an appropriate word that can substitute the bracketed word and complete the sentence meaningfully.

He never (talks) the truth.

(a) utters
(b) narrates
(c) declares
(d) speaks

Q12. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Professor Singh is not in the office today. I ask you try call him tomorrow.

(a) asked you to call
(b) am suggesting you calling
(c) ask you to try called
(d) suggest you try calling

Q13. Select the INCORRECTLY spelt word in the given sentence.

The ministir ordered the engineers to build roads through high mountains and bridges across deep ravines in a week.

(a) Ravines
(b) Engineers

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(c) Bridges
(d) Ministir

Q14. Select the most appropriate ANTONYM of the underlined word in the given sentence.
The coach was optimistic that Ronald will play the quarter final.
(a) Doubtful
(b) Tasteful
(c) Helpful
(d) Cheerful

Q15. Select the most appropriate synonym of the underlined word.
John is very generous; he regularly gives alms to the poor.
(a) great
(b) shrewd
(c) kind
(d) popular

Q16. Select the most appropriate option to fill in the blank.
I would like to reach the _____ of the Everest.
(a) pike
(b) pick
(c) peek
(d) peak

Q17. Select the most appropriate synonym of the underlined word.
The girl tried to alleviate her brother's problem.
(a) reduce
(b) worsen
(c) soar
(d) increase

Q18. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'. The small size of his store makes it impossible for him to stock all the items.
(a) made them impossible
(b) making it impossible
(c) No substitution required
(d) is made it impossible

Q19. Select the most appropriate ANTONYM of the underlined word.
The poet was lost in a reverie.
(a) Daydream
(b) Reality
(c) Trance
(d) Fantasy

Q20. Select the most appropriate ANTONYM of the underlined word.
The encounter made the audience squirm
(a) Chat
(b) Pray
(c) Relax
(d) Speak

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Q21. Select the most appropriate option to correct the sentence by using the proper meaning of the underlined word.

He scores good marks in exams as he is quite meticulous.

(a) Careful
(b) Lazy
(c) Intelligent
(d) Selective

Q22. The given sentence is divided into four segments. Identify the segment that contains a spelling error.

When the famous businessman / faced a huge loss / in his business, / no one expressed simpathy.

(a) When the famous businessman
(b) no one expressed simpathy
(c) in his business
(d) faced a huge loss

Q23. Select the most appropriate meaning of the given idiom.

An old head on young shoulders

(a) A young person who acts or speaks like an older person
(b) A young person who is lazy.
(c) A person who is slow at understanding things.
(d) A young person who looks old.

Q24. Select the most appropriate meaning of the given idiom.

A wild goose chase

(a) On a hunt
(b) Fruitless search
(c) Fruitful search
(d) Ideal seeking

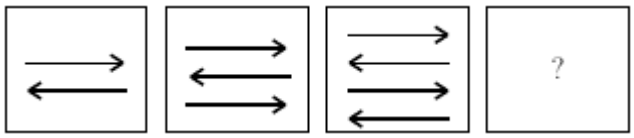
Q25. Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.

The meeting was brought to a _____ (rapid) conclusion.

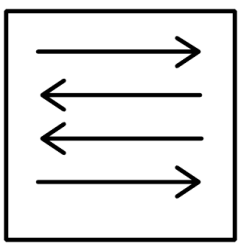
(a) pervious
(b) stubborn
(c) grim
(d) hasty

GENERAL INTELLIGENCE

Q26. Identify the figure given in the options which when put in place of ? will logically complete the series.

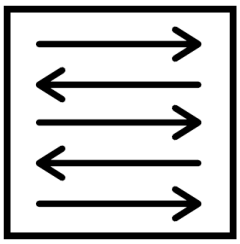


(a)

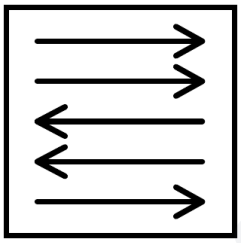


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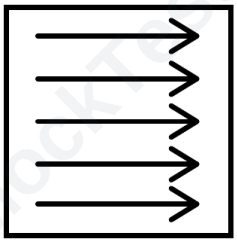
(b)



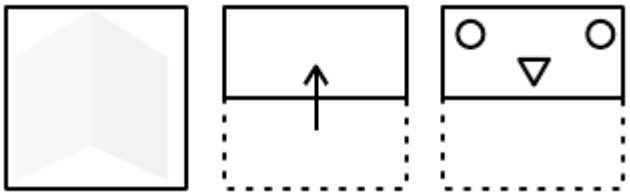
(c)



(d)



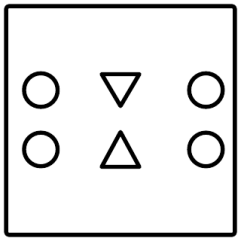
Q27. A paper is folded and cut as shown below, How will it appear when unfolded?



(a)

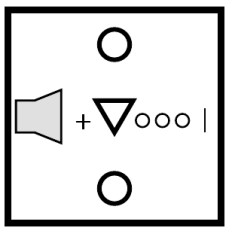


(b)

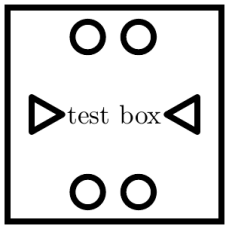


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(c)



(d)



Q28. This question consists of a pair of words which have a certain relationship to each other. Select the pair which does NOT have the same relationship.

Smart : Intelligent

1) Liable : Accountable

2) Modest : Humble

3) Nimble : Sluggish

4) Outbreak : Eruption

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

Q29. If 22 March 2000 is a Wednesday, then what will the day of the week on 16th January 2010?

(a) Sunday
(b) Wednesday
(c) Tuesday
(d) Saturday

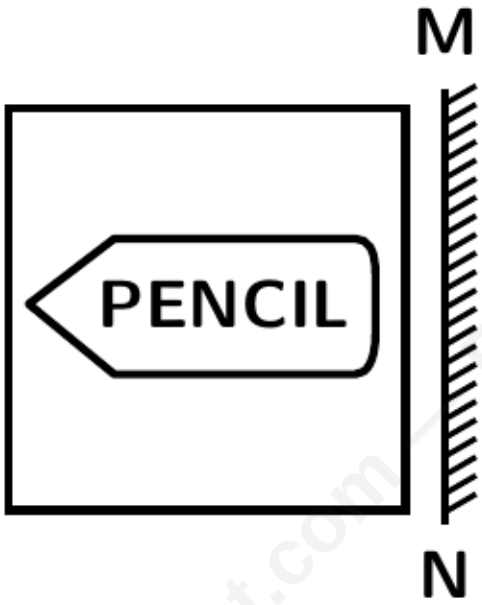
Q30. Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order,

JKL, LHP, NET, ?, RYB, TVF

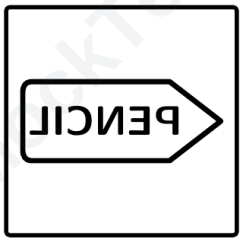
(a) COL
(b) PBX
(c) POF
(d) RAL

Q31. Select the correct mirror image of the given figure when the mirror is placed at MN.

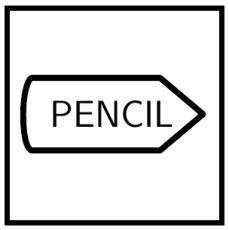
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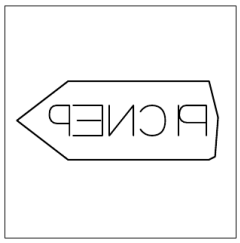
(a)



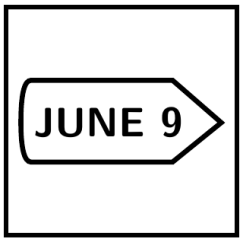
(b)



(c)



(d)

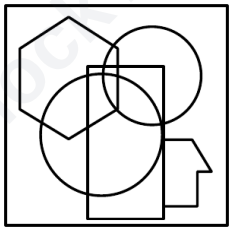


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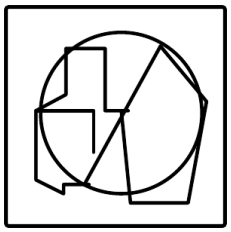
Q32. Select the option in which the given figure is embedded. (Rotation is NOT allowed).



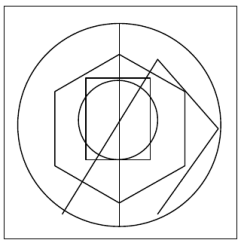
(a)



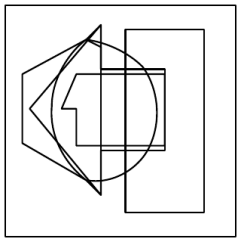
(b)



(c)



(d)



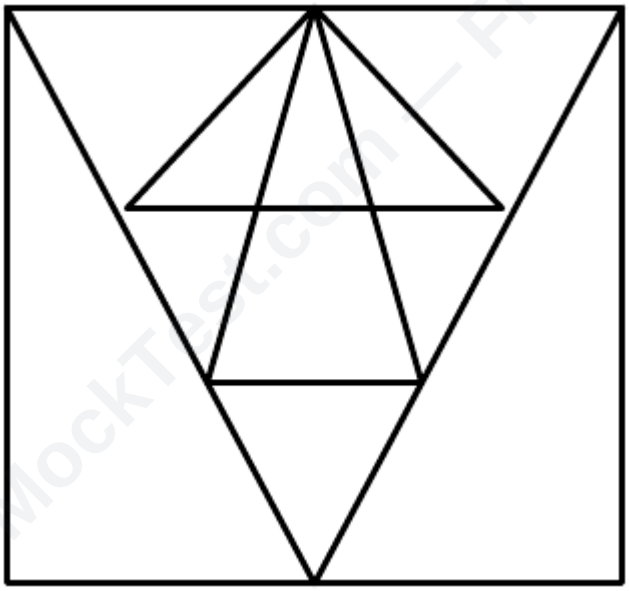
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Q33. If ‘A’ stands for '÷', 'B' stands for '×', 'C' stands for ‘+' and 'D' stands for ‘-', what will come in place of the question mark (?) in the following equation?

222 A 2 C 7 B 3 D 11 = ?

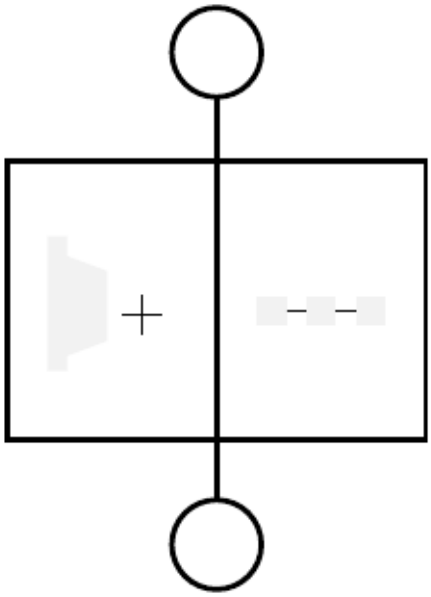
(a) 121
(b) 111
(c) 131
(d) 141

Q34. How many triangles are there in the following figure?



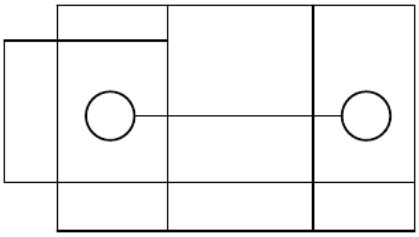
(a) 18
(b) 21
(c) 20
(d) 19

Q35. Select the option in which the given figure is embedded. (Rotation is NOT allowed.)

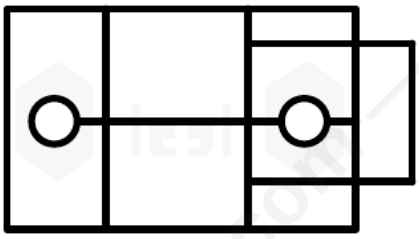


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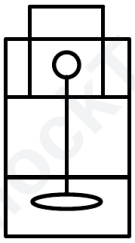
(a)



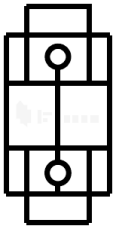
(b)



(c)



(d)



Q36. If 19 February 2014 was Wednesday, then what was the day of the week on 19 February 2022?

(a) Thursday
(b) Saturday
(c) Wednesday
(d) Tuesday

Q37. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(120, 8, 15)

(144, 24, 6)

(a) (134, 22, 6)
(b) (115, 23, 5)
(c) (106, 4, 26)
(d) (124, 6, 21)

Q38. What should come in place of '?' in the given series?

126 1236 12336 123336 1233336 ?

(a) 12333336
(b) 12333366

(c) 12333363
(d) 1233633

Q39. Read the given statements and conclusions 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:

No cloud is a mountain.

All mountains are rivers.

All rivers are oceans.

Conclusions:

(I) All rivers can never be clouds.

(II) All mountains are oceans.

(a) None of the conclusions follow
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Only conclusion I follows

Q40. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

(a) JKQP
(b) OPMK
(c) DEWV
(d) QRJI

Q41. What will come in the place of '?' in the following equation if '+' and '÷' are interchanged and '×' and '–' are interchanged?

36 – 42 ÷ 26 + 13 × 14 = ?

(a) 1200
(b) 1500
(c) 3467
(d) 1324

Q42. In a certain code language, 'future is bright' is coded as 'pl mk ni' and 'bright shooting star' is coded as 'dg rz pl'. How is 'bright' coded in that language?

(a) pl
(b) ni
(c) mk
(d) dg

Q43. EHJL is related to FJMP in a certain way based on the English alphabetical order. In the same way, BEGI is related to CGJM. To which of the following is DGIK related, following the same logic?

(a) ELIO
(b) EIJO
(c) EILO
(d) EJIO

Q44. In a certain code language,

'A @ B' means 'A is the husband of B',

'A # B' means 'A is the mother of B',

'A & B' means 'A is the daughter of B',

'A $ B' means 'A is the brother of B'.

Based on this, how is P related to M, if 'M & N @ O # P $ Q'?

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(a) Son
(b) Father's brother
(c) Brother
(d) Father

Q45. Which two numbers should be interchanged to make the given equation correct?

29 + 46 − (48 ÷ 4) + (7 × 3) − 26 = 61

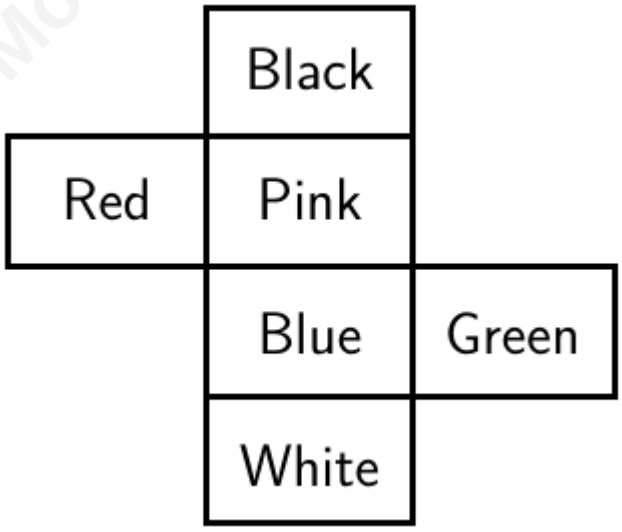
(NOTE: Numbers must be interchanged and not the constituent digits e.g. if 2 and 3 are to be interchanged in the equation 43 × 3 + 4 ÷ 2, then interchanged equation is 43 × 2 + 4 ÷ 3)

(a) 26 and 29
(b) 46 and 48
(c) 46 and 26
(d) 4 and 3

Q46. In a certain code language, 'if you are' is coded as 'go so lu' and 'where are you' is coded as 'so lu ga'. What is the code for 'where' in that language?

(a) so
(b) go
(c) lu
(d) ga

Q47. What would be the word on the opposite side of 'Green' if the given sheet is folded to form a cube?



(a) White
(b) Red
(c) Black
(d) Pink

Q48. 242 is related to 22 following a certain logic. Following the same logic, 385 is related to 35. To which of the following is 572 related following the same logic?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(a) 50
(b) 52
(c) 56
(d) 54

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Q49. Which of the following numbers will replace the question mark (?) in the given series?

86 129 105 118 124 107 143 96 ?

(a) 153
(b) 162
(c) 149
(d) 138

Q50. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

AEO, XAM, UWK, RSI, ?

(a) OOG
(b) NMF
(c) LMH
(d) MNH

QUANTITATIVE APTITUDE

Q51. If Tanya walks at the speed of 6 km/h, she misses a train by 2 minutes. However, if she walks at the speed of 8 km/h, she reaches the station 3 minutes before the arrival of the train. The distance covered by Tanya to reach the station is:

(a) 3 km
(b) 2.5 km
(c) 2 km
(d) 2.75 km

Q52. Find the equation of the sphere having centre (-1, 2, -3) and the radius of 3 units.

(a) $x^2 + y^2 + z^2 - 2x + 4y - 6z + 5 = 0$
(b) x2 + y2 + z2 - x + 2y - 3z + 5 = 0
(c) x2 + y2 + z2 + x - 2y + 3z + 5 = 0
(d) x2 + y2 + z2 + 2x - 4y + 6z + 5 = 0

Q53. A car is sold for Rs. 5,00,000, which is 20% less than its original price. What was the original price of the car?

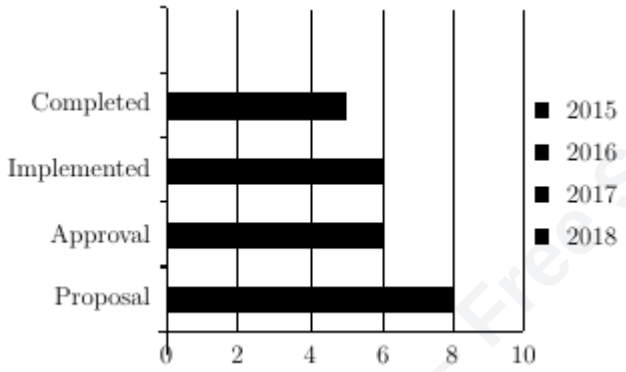
(a) Rs. 6,50,000
(b) Rs. 6,75,000
(c) Rs. 6,00,000
(d) Rs. 6,25,000

Q54. If 6 engineers can complete a work in 5 days and 5 skilled workers can complete the same work in 7 days, then the time taken (in days) to complete the same work by 7 engineers and 4 skilled workers will be:

(a) 264/73
(b) 264/70
(c) 364/73
(d) 265/73

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Q55.



A company starts constructing buildings for a college. The constructions have 4 stages.

1. buildings proposals 2. proposals approval 3. constructions implemented 4. buildings completed

The above 3D-bar graph indicates the status of constructions for 4 years 2015 to 2018.

The X-axis scale 0, 2, 4, 6, 8,10 indicates 0, 20%, 40%, 60%, 80%, 100%.

Study the bar graph carefully and answer the following questions.

Find the ratio of proposals to buildings completed for the year 2016.

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

Q56. Read the given information and answer the question that follows.

The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The number in the brackets gives the maximum marks in each subject.

Student	**Subject (Max. Marks)**					
Maths	Chemistry	Physics	Geography	History	Computer Science	
(150)	(130)	(120)	(100)	(60)	(40)	
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

What is the median raw score of the marks obtained by the seven students in Chemistry?

(a) 84.5
(b) 65
(c) 81.25
(d) 62.5

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Q57. If sin θ=7/25, then
cosθ and tan θ are respectively _____.
(where θ is in the first quadrant)
(a) 24/25 and 24/7
(b) 24/25 and 7/24
(c) 25/24 and 24/7
(d) 25/7 and 7/24

Q58. The lines x + y = 10 and -3x + y = 2 have a unique solution. What is the distance (in units) between the unique solution and the point of intersection of the line x + y = 10 and the x-axis?
(a) 8√2
(b) 10√2
(c) 8
(d) 10

Q59. The value of (5+7× 5÷ 8 of 5+3÷ 3× 5)/(6÷ 6 of 4+9× 9÷ 3× 2× 2) is:
(a) 87/866
(b) 97/881
(c) 67/859
(d) 77/861

Q60. The average marks scored by the students of a class is 75. If the average marks scored by the girls in the same class is 90 and that of boys is 70, what is the percentage of boys in the class?
(a) 65%
(b) 75%
(c) 60%
(d) 70%

Q61. The sides ST and TR and the median SU of the Δ STR are equal to the sides MN and NJ and the median MV of the Δ MNJ, respectively. If angle TSU = 46°, angle NMJ = 79°and angle MVN = 88°, what is the degree measure of = 7/11 angle SRT?
(a) 47°
(b) 35°
(c) 55°
(d) 56°

Q62. An amount invested fetched a total simple interest of Rs. 4,050 at the rate of 9% per annum in 5 years. What is the amount invested (in Rs.)?
(a) 9,000
(b) 9,050
(c) 8,300
(d) 7,500

Q63. Ramesh sells an article for Rs. 34,440, after allowing an 18% discount on the marked price and still manages to gain 40% profit. If Ramesh sold the article at a 12% discount on the marked price, then what will be his profit, correct to two places of decimals?
(a) 50.24%
(b) 50.42%
(c) 48.42%
(d) 48.24%

Q64. By selling 60 pens, a man gains an amount equal to the selling price of 12 pens. What is his gain percentage?
(a) 27%
(b) 22%
(c) 25%

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(d) 20%

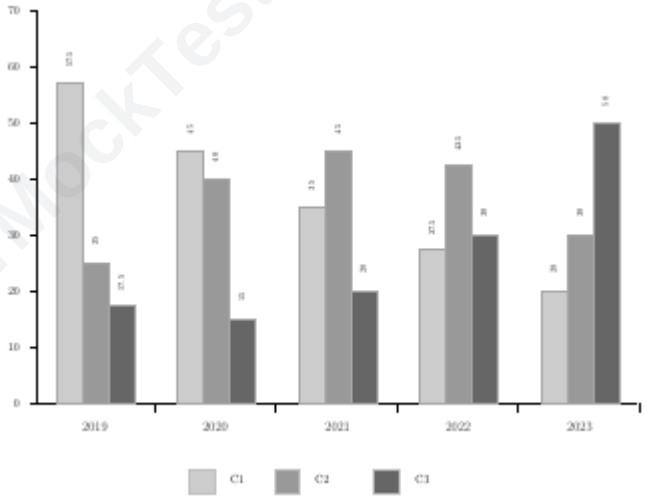
Q65. In a right angle triangle with sides 12 cm and 16 cm and hypotenuse 20 cm, the length of altitude drawn on the hypotenuse from the opposite vertex is K. Find the value of K.

(a) 9.6 cm
(b) 6.9 cm
(c) 8.6 cm
(d) 6.8 cm

Q66. If a person's salary increases from Rs. 200 per day to Rs. 234 per day, then the percentage increase in the person's salary is:

(a) 16%
(b) 17%
(c) 15%
(d) 14%

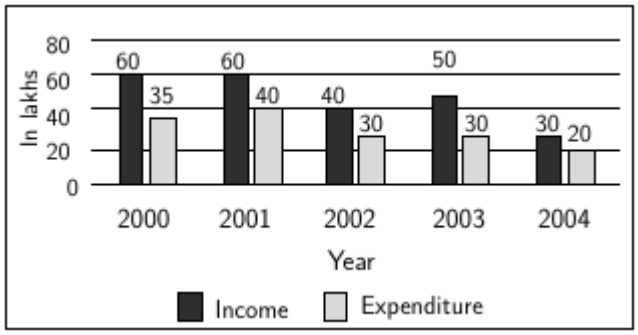
Q67. The given bar graph shows the percentage of production of three companies C1, C2 and C3 over five years. Study the bar graph and answer the question that follows.



If the ratio of the total production in the year 2019 and 2022 is 3 : 5 and the total production in C1 in 2022 is 4125, then the total production of C3 in the year 2019 is:

(a) 9000
(b) 2250
(c) 5175
(d) 1575

Q68. Study the following bar chart, which represents the income and expenditure of a company.



In how many years is the income of company less than the average income?

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

Q69. A tangent is drawn from a point at a distance of 25 cm from the Centre of a circle C(0, r) of radius 7 cm. The length of the tangent is _____ cm.

(a) 20
(b) 8
(c) 16
(d) 24

Q70. A tangent is drawn from a point that is at a distance of 37 cm from center of the circle O, and diameter is 24 cm. The length (in cm) of the tangent is:

(a) 37
(b) 30
(c) 28.16
(d) 35

Q71. In an election there were only two candidates. One of the candidates secured 35% of votes and is defeated by the other candidate by 381 votes. The total number of votes polled is:

(a) 635
(b) 1028
(c) 1270
(d) 514

Q72. If the radius of the base and slant height of the cone is 6 cm and 10 cm, respectively, then the volume of the cone is equal to:

(a) 106 π cm^3
(b) 108 π cm3
(c) 96 π cm3
(d) 98 π cm3

Q73. The area of three adjacent faces of a cuboidal box is 120 cm^2, 72 cm^2 and 60 cm^2, respectively. Find the volume (in cm^3) of the box.

(a) 650
(b) 864
(c) 425
(d) 720

Q74. Evaluate the given expression.

(45 + 9) ÷ 2 - 7 × 33 ÷ 7 + {(7 + 18) × 6} + 9 × 8 - 89

(a) 127
(b) 125
(c) 118
(d) 112

Q75. If A : B = 5 : 8 and B : C = 7 : 8, then find A : C.

(a) 35 : 64
(b) 55 : 30
(c) 34 : 64
(d) 35 : 56

GENERAL AWARENESS

Q76. Which of the following Fundamental Rights has been deleted from the original list of fundamental rights provided in the Constitution of India?

(a) Right to property
(b) Cultural and educational rights
(c) Right to constitutional remedies

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(d) Right to freedom of religion

Q77. Which Excel feature allows you to simultaneously edit the same cell or range of cells with multiple users in real-time?

(a) co-authoring
(b) Data Validation
(c) Conditional Formatting
(d) Track Changes

Q78. A flat ring of small, icy bodies that revolve around the sun beyond the orbit of the planet Neptune is called:

(a) Bow Shock
(b) Kuiper Belt
(c) Oort Cloud
(d) Asteroid Belt

Q79. In Cricket, the bowler does NOT get credit for _____.

(a) run out
(b) LBW
(c) bowled
(d) catch

Q80. The approach driven by seven engines, which is powered by Clean Energy and 'Sabka Prayas' is related to which scheme?

(a) PM Gati Shakti Master Plan
(b) Garib Kalyan Rojgar Abhiyan
(c) Pradhan Mantri Mudra Yojana
(d) Aatmanirbhar Bharat Rojgar Yojana

Q81. Who was the first Indian wrestler to win a world championship medal?

(a) KD Jadhav
(b) Udey Chand
(c) Dara Singh
(d) Malwa Singh

Q82. The Chilika Lake is located to the south of the _____ delta.

(a) Narmada
(b) Cauvery
(c) Godavari
(d) Mahanadi

Q83. Which statement about Syama Sastri is correct?

(a) His signature name was Guruguha.
(b) His famous composition is Pancharatna Kritis.
(c) A crater on planet mercury is named after him.
(d) He is one among the trinity of Carnatic Music.

Q84. Mohiniyattam is a classical dance form of:

(a) Assam
(b) Kerala
(c) Tamil Nadu
(d) Tripura

Q85. In the year 2021, which of the following ministries published the amended rules related to Corporate Social Responsibility (CSR)?

(a) Ministry of New and Renewable Energy
(b) Ministry of Home Affairs
(c) Ministry of Science and Technology

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(d) Ministry of Corporate Affairs

Q86. The Wild Life (Protection) Amendment Act, 2022 received the assent of the President on _____.

(a) 10 December 2022
(b) 14 December 2022
(c) 19 December 2022
(d) 17 December 2022

Q87. In which country do Kachin, Karen, Karenni, Chin and Mon ethnic groups belong?

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

Q88. In which year was the Board of Control for Cricket in India (BCCI) formed?

(a) 1914
(b) 1931
(c) 1928
(d) 1947

Q89. Which key can be pressed to initiate a slide show in MS PowerPoint?

(a) Function key F4
(b) Function key F2
(c) Function key F5
(d) Function key F8

Q90. What is ‘Padam’ in Carnatic Music?

(a) A lullaby
(b) A love poem
(c) A poem about courage
(d) A patriotic poem

Q91. Calculate personal income (in Rs. crore) from the given data.

Particulars	Rs. (in crore)
Private income	1800
Net retained earnings of private enterprises	500
Corporation tax	250

(a) 1100
(b) 1050
(c) 950
(d) 1000

Q92. Which of the following food grains highly benefited from the Green Revolution?

(a) Millet
(b) Maize
(c) Barley
(d) Wheat

Q93. Manipur's _____ tribe celebrates the ‘Gaan-Ngai’ festival, which is a postharvest festival of the tribe living in the regions of Manipur.

(a) Gangte
(b) Zeliangrong
(c) Chothe

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(d) Inpui

Q94. Article 15 of the Constitution of India entails:

(a) freedom of speech and expression
(b) prohibition of discrimination against any citizen on grounds only of religion, race, caste, sex or place of birth
(c) cultural and educational rights
(d) equality of opportunity for all citizens in matters relating to employment or appointment

Q95. Which of the following is a food-borne disease caused by the consumption of contaminated food or beverages?

(a) Tuberculosis
(b) Chicken pox
(c) Malaria
(d) Cholera

Q96. What was the name of the campaign led by the Ali brothers and Maulana Abul Kalam Azad to save the Ottoman Caliphate as a symbol of unity among the Muslim community?

(a) Wahabi Movement
(b) Faraizi Movement
(c) Khilafat Movement
(d) Ahmadiya Movement

Q97. Which of the following airports is being built as India's first 'carbon-neutral airport'?

(a) Kangra airport
(b) Srinagar airport
(c) Leh airport
(d) Jammu airport

Q98. Who among the following confirmed Maxwell's theories with the discovery of radio waves and also became the first person to transmit and receive controlled radio waves in 1886?

(a) Heinrich Hertz
(b) William Hopkins
(c) Guglielmo Marconi
(d) Michael Faraday

Q99. Match the pair correctly:

National Waterways	Stretch		
(a)	NW-1	1.	Kakinada-Puducherry
(b)	Nw-2	2.	Kottapuram- Kallam
(c)	NW-3	3.	Allahabad - Haldia
(d)	NW-5	4.	Sadiya- Dhubri
		5.	Talchar-Dhamra

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

Q100. Bilhan was a court poet in which of the following kingdoms?

(a) Vikramaditya VI
(b) Kulottunga I
(c) Rajaraja II
(d) Vijayaditya VII

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) as smart as

The solution is in Hindi. Read it online.

Q2. Answer: (b) did not watched

The correct answer is Option 2.

Key Points

• The primary issue in the sentence is the incorrect form of the verb "watched" in the phrase "did not watched."

• When using the auxiliary verb "did," the main verb should be in its base form.

• The correct phrase should be "did not watch," ensuring grammatical correctness.

• Thus, the error is located in part 2 of the sentence.

Therefore, the correct answer is Option 2.

Correct Sentence: "She did not watch Frankenstein last night."

Additional Information

• 1: "last night." – This part of the sentence is grammatically correct and does not require any changes.

• 3: "She" – This part of the sentence is grammatically correct and does not require any changes.

• 4: "Frankenstein" – This part of the sentence is grammatically correct and does not require any changes.

Q3. Answer: (d) The workers called out

The correct answer is Option 2.

Key Points

• The primary issue in the sentence is the incorrect use of the phrase "called out." The correct phrase should be "called off."

• The phrase "called off" means to cancel or end something, which is appropriate in this context.

• The correct phrase should be "called off the strike," ensuring grammatical correctness and clarity.

• Thus, the error is located in Option 2 of the sentence.

Therefore, the correct answer is Option 2.

Correct Sentence: "The workers called off the strike because the management acceded to all their demands."

Additional Information

• Option 1: "all their demands," – This part of the sentence is grammatically correct and does not require any changes.

• Option 3: "the management acceded to," – This part of the sentence is grammatically correct and does not require any changes.

• Option 4: "The workers called out," – This part of the sentence contains the error and should be corrected to "called off."

Q4. Answer: (b) obtain resources

The correct answer is Option 2.

Key Points

• The primary issue in the sentence is the incorrect form of the verb "obtain."

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• To maintain parallelism with the verb "make," the correct form should be "obtaining."
• The correct phrase should be "make money by obtaining resources," ensuring grammatical correctness and clarity.
• Thus, the error is located in part 2 of the sentence.

Therefore, the correct answer is Option 2.

Correct Sentence: "A company can make money by obtaining resources more affordably."

Additional Information

• 1: "make money by," – This part of the sentence is grammatically correct and does not require any changes.
• 3: "A company can," – This part of the sentence is grammatically correct and does not require any changes.
• 4: "more affordably." – This part of the sentence is grammatically correct and does not require any changes.

Q5. Answer: (a) most easily

The correct answer is 'most easily'.

Key Points

• The word "most easily" indicates the highest degree of being easy, which suits the context of conversation being an art that is achievable with minimal effort.
• The other options: "most occasionally", "more easily", and "more likely" do not fit the context as appropriately.

Therefore, the correct answer is 'Option 1'.

Complete Sentence: Conversation is indeed the most easily teachable of all arts.

Additional Information

• Most occasionally: This suggests infrequency, which doesn't fit the context of the teachability of conversation as an art.
• More easily: This implies a comparison but doesn't convey the superlative sense needed in this context.
• More likely: This implies probability, which doesn't suit the context of how teachable an art is.

Q6. Answer: (c) subject

The correct answer is 'subject'.

Key Points

• The word "subject" refers to a topic or theme of discussion, which is most appropriate for conversations.
• Selecting a subject that interests both you and your listeners is crucial for engaging conversation.
• The other options, "luxury", "credit", and "result" do not fit the context of initiating and maintaining an engaging conversation.

Therefore, the correct answer is 'Option 3'.

Complete Sentence: All you need to do in order to become a good conversationalist is to find a subject that interests you and your listeners.

Additional Information

• Luxury: Refers to something expensive and desirable but not essential, which doesn't suit the context here.
• Credit: Refers to recognition or an acknowledgment of achievement, which is not relevant to selecting a conversation topic.
• Result: Refers to an outcome, which does not fit the context of discussing an engaging topic for conversation.

Q7. Answer: (b) fellow's

The solution is in Hindi. Read it online.

Q8. Answer: (a) popularity

The solution is in Hindi. Read it online.

Q9. Answer: (b) pleases

The solution is in Hindi. Read it online.

Q10. Answer: (b) to the old age home

The solution is in Hindi. Read it online.

Q11. Answer: (d) speaks

The correct answer is Option 4.

Key Points

• The verb "speaks" is the most appropriate word to use in this context when referring to telling the truth.
• "Talks" can be replaced with "speaks" to convey the intended meaning accurately.
• Other options like "utters," "narrates," and "declares" do not fit well in the context of this sentence.

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• Thus, "speaks" is the best choice to complete the sentence meaningfully.

Therefore, the correct answer is Option 4.

Correct Sentence: "He never speaks the truth."

Additional Information

• Option 1: "utters" – While "utters" means to speak or say something, it is more often used in a different context, such as uttering a sound or words.

• Option 2: "narrates" – This implies telling a story or giving an account of events, which doesn't fit well in this context.

• Option 3: "declares" – This implies making a formal or emphatic statement, which is not suitable here.

• Option 4: "speaks" – This is the most appropriate choice as it directly relates to telling the truth.

Q12. Answer: (d) suggest you try calling

The solution is in Hindi. Read it online.

Q13. Answer: (d) Ministir

The solution is in Hindi. Read it online.

Q14. Answer: (a) Doubtful

The solution is in Hindi. Read it online.

Q15. Answer: (c) kind

The solution is in Hindi. Read it online.

Q16. Answer: (d) peak

The solution is in Hindi. Read it online.

Q17. Answer: (a) reduce

The solution is in Hindi. Read it online.

Q18. Answer: (c) No substitution required

The correct answer is Option 3.

Key Points

• The sentence "The small size of his store makes it impossible for him to stock all the items." is grammatically correct as it stands.

• The subject "The small size of his store" correctly leads to the effect "makes it impossible for him to stock all the items."

• The verb "makes" correctly indicates the cause-effect relationship in the sentence.

Therefore, the correct answer is Option 3.

Correct Sentence: "The small size of his store makes it impossible for him to stock all the items."

Additional Information

• Option 1: "made them impossible" – This option is incorrect because "them" does not have a clear antecedent in the sentence.

• Option 2: "making it impossible" – This option is incorrect because it changes the structure and meaning of the sentence.

• Option 4: "is made it impossible" – This option is grammatically incorrect as it uses both "is" and "made" incorrectly together.

Q19. Answer: (b) Reality

The solution is in Hindi. Read it online.

Q20. Answer: (c) Relax

The solution is in Hindi. Read it online.

Q21. Answer: (a) Careful

The solution is in Hindi. Read it online.

Q22. Answer: (b) no one expressed simpathy

The correct answer is Option 2.

Key Points

• The primary issue in the sentence is the spelling error in the word "simpathy."

• The correct spelling of the word should be "sympathy."

• Thus, the error is located in part 2 of the sentence.

Therefore, the correct answer is Option 2.

Correct Sentence: "When the famous businessman faced a huge loss in his business, no one expressed sympathy."

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Additional Information

• 1: "When the famous businessman," – This part of the sentence is grammatically correct and does not contain any spelling errors.

• 3: "in his business," – This part of the sentence is grammatically correct and does not contain any spelling errors.

• 4: "faced a huge loss," – This part of the sentence is grammatically correct and does not contain any spelling errors.

Q23. Answer: (a) A young person who acts or speaks like an older person

The solution is in Hindi. Read it online.

Q24. Answer: (b) Fruitless search

The solution is in Hindi. Read it online.

Q25. Answer: (d) hasty

The solution is in Hindi. Read it online.

Q26. Answer: (b) [figure]

The logic followed here is:

A new arrow added in bottom of the existing arrow in each next figure and direction of the arrow is reversed from the previous one.

Hence, the correct answer is "Option 2".

Q27. Answer: (a) [figure]

The paper after unfolded will be:

Hence, the correct answer is "Option 1".

Q28. Answer: (a) 3

The logic followed here is:

Logic: Identifying Synonyms.

Here,

Smart : Intelligent → Smart and Intelligent are synonyms.

Similarly,

Liable : Accountable → Liable and Accountable are synonyms.

Modest : Humble → Modest and Humble are synonyms.

Outbreak : Eruption → Outbreak and Eruption are synonyms.

However,

Nimble : Sluggish → Nimble and Sluggish are antonyms, not synonyms.

Hence, the correct answer is "Option 1".

Q29. Answer: (d) Saturday

Given: 22 March 2000 was Wednesday.

Now,

2000 to 2009 = 9 Years (7 Ordinary Years and 2 Leap Years).

And, In 9 Years = 2 Leap years and 7 Ordinary Years.

So, 2 Leap Years have 4 odd days,

And, 7 Ordinary Years have 7 odd days.

Total odd days = 4 + 7 = 11.

11 odd days → 11/7 = 1 week and 4 odd days.

then, 22 March 2009 will be Wednesday + 4 = Sunday.

Now, the number of days between 22 March 2009 to 16 January 2010

= 284(March to December 2009) + 16(January 2010) = 300 days.

= 300 days → 300/7 = 42 weeks and 6 odd days.

So, 16 January 2010 will be Sunday + 6 = Saturday.

Hence, the correct answer is "Option 4".

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Q30. Answer: (b) PBX

The logic followed here is: 1st letter +2; 2nd letter - 3 and 3rd letter + 4.

Hence, the correct answer is "Option 2".

Q31. Answer: (a) [figure]

The correct mirror image of the given figure is:

Hence, the correct answer is "Option 1".

Q32. Answer: (c) [figure]

The image embedded in given figure is as shown below:

Hence, "Option 3" is the correct answer.

Q33. Answer: (a) 121

Given Equation: 222 A 2 C 7 B 3 D 11 = ?

BODMAS Rule:

Decoding the given information:

Alphabet	A	B	C	D
Meaning	÷	×	•	•

Now replacing the sign from left to right using BODMAS Rule, we get:

=> 222 ÷ 2 + 7 × 3 - 11 = ?

=> 111 + 7 × 3 - 11 = ?

=> 111 + 21 - 11 = ?

=> 132 - 11 = ?

=> 121

Hence, the correct option is "Option 1".

Q34. Answer: (c) 20

The triangles are:

So, 20 triangles are there in the following figure.

Hence, the correct answer is "Option 3".

Q35. Answer: (d) [figure]

The image embedded in given figure is as shown below:

Hence, "Option 4" is the correct answer.

Q36. Answer: (b) Saturday

Given: 19 February 2014 was Wednesday.

Now,

2014 to 2022 = 8 Years (6 Ordinary Year and 2 Leap Year).

And, In 8 Years = 2 Leap years and 6 Ordinary Year.

So, 2 Leap Year has 4 odd days,

And, 6 Ordinary Year has 6 odd days.

Total odd days = 4 + 6 = 10.

10 odd days → 10/7 = 1 week and 3 odd days.

then, 19 February 2022 will be Wednesday + 3 = Saturday.

Hence, the correct answer is "Option 2".

Q37. Answer: (b) (115, 23, 5)

The logic followed here is:

Logic: (2nd number × 3rd number) = 1st number.

Now,

For, (120, 8, 15)

=> (8 × 15) = 120.

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For, (144, 24, 6)

=> (24 × 6) = 144.

Similarly, For (115, 23, 5)

=> (23 × 5) = 115.

Hence, the correct answer is "Option 2".

Q38. Answer: (a) 12333336

The logic followed here is:

Hence, the correct answer is "Option 1".

Q39. Answer: (c) Both conclusions I and II follow

Given statements:

No cloud is a mountain.

All mountains are rivers.

All rivers are oceans.

The least possible Venn diagram:

Conclusions:

(I) All rivers can never be clouds. - True (Because there is no direct relation between rivers and clouds so it can be possible)

(II) All mountains are oceans. - True (Because All mountains are rivers and All rivers are oceans, so all mountains are oceans it is definite)

So, Both conclusions I and II follow

Hence, the correct answer is "Option 3".

Q40. Answer: (b) OPMK

The logic followed here is:

Option 1) JKQP

Option 2) OPMK

Option 3) DEWV

Option 4) QRJI

Hence, the correct answer is "Option 2".

Q41. Answer: (b) 1500

Given equation: 36 – 42 ÷ 26 + 13 × 14 = ?

If '+' and '÷' and '×' and '–' are interchanged then we get:

=> 36 × 42 + 26 ÷ 13 - 14 = ?

=> 36 × 42 + 2 - 14 = ?

=> 1512 + 2 - 14 = ?

=> 1514 - 14 = ? = 1500

Hence, the correct answer is "Option 2".

Q42. Answer: (a) pl

According to the given information:

Thus, the code for 'bright' = pl

Hence, the correct answer is "Option 1".

Q43. Answer: (c) EILO

The logic followed here is:

EHJL is related to FJMP

BEGI is related to CGJM

Similarly, DGIK related ?

Hence, the correct answer is "Option 3".

Q44. Answer: (c) Brother

Family Chart:

Decoding the Symbols:

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Symbol	@	#	&	$
Meaning	Husband	Mother	Daughter	Brother

Given: M & N @ O # P $ Q

It means: M is the daughter of N, N is the husband of O, O is the mother of P and P is the brother of Q.

So, P is the 'Brother' of M.

Hence, the correct answer is "Option 3".

Q45. Answer: (d) 4 and 3

Option 1) 26 and 29

After interchange the numbers:

=> 26 + 46 − (48 ÷ 4) + (7 × 3) − 29 = 61

=> 26 + 46 − 12 + 21 − 29 = 61

=> 93 − 12− 29 = 61

=> 52 = 61

Option 2) 46 and 48

After interchange the numbers:

=> 29 + 48 − (46 ÷ 4) + (7 × 3) − 26 = 61

=> 29 + 48 − 11.5 + 21 − 26 = 61

=> 98 − 11.5 − 26 = 61

=> 60.5 = 61

Option 3) 46 and 26

After interchange the numbers:

=> 29 + 26 − (48 ÷ 4) + (7 × 3) − 46 = 61

=> 29 + 26 − 12 + 21 − 46 = 61

=> 76 − 12 − 46 = 61

=> 18 = 61

Option 4) 4 and 3

After interchange the numbers:

=> 29 + 46 − (48 ÷ 3) + (7 × 4) − 26 = 61

=> 29 + 46 − 16 + 28 − 26 = 61

=> 103 − 16 − 26 = 61

=> 61 = 61

Hence, the correct answer is "Option 4".

Q46. Answer: (d) ga

According to the given information:

Thus, the code for 'where' = ga

Hence, the correct answer is "Option 4".

Q47. Answer: (b) Red

According to the given dice:

• Alternate surface are opposite to each other.

Thus, the opposite side of 'Green' = Red.

Hence, the correct answer is "Option 2".

Q48. Answer: (b) 52

The logic followed here is:

Logic: 1st number ÷ 11 = 2nd number.

Now,

For, 242 : 22

=> 242 ÷ 11 = 22.

For, 385 : 35

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=> 385 ÷ 11 = 35.

Similarly, for 572 : ?

=> 572 ÷ 11 = 52.

Hence, the correct answer is "Option 2".

Q49. Answer: (b) 162

The logic followed here is:

Hence, the correct answer is "Option 2".

Q50. Answer: (a) OOG

The logic followed here is: 1st letter -3; 2nd letter - 4; and 3rd letter - 2.

Hence, the correct answer is "Option 1".

Q51. Answer: (c) 2 km

Given:

Speed1 (S1) = 6 km/h

Speed2 (S2) = 8 km/h

Time difference at S1 = 2 minutes = 2/60 hours

Time difference at S2 = 3 minutes = 3/60 hours

Formula used:

Distance (D) = Speed × Time

Calculations:

Let D be the distance.

At 6 km/h:

Time1 = D/S1 + 2/60

At 8 km/h:

Time2 = D/S2 - 3/60

=> Time1 = Time2

=> D/6 + 2/60 = D/8 - 3/60

=> D/6 - D/8 = -3/60 - 2/60

=> D/6 - D/8 = -5/60

=> (4D - 3D)/24 = -1/12

=> D/24 = -1/12

=> D = 2 km

Therefore The distance covered by Tanya to reach the station is 2 km.

Q52. Answer: (d) x2 + y2 + z2 + 2x - 4y + 6z + 5 = 0

Given:

Centre (h, k, l) = (-1, 2, -3)

Radius (r) = 3 units

Formula used:

Equation of a sphere: $(x - h)^2 + (y - k)^2 + (z - l)^2 = r^2$

Calculation:

Substitute the given values:

$(x + 1)^2 + (y - 2)^2 + (z + 3)^2 = 3^2$

=> $(x + 1)^2 + (y - 2)^2 + (z + 3)^2 = 9$

Expand and simplify:

$(x + 1)^2 = x^2 + 2x + 1$

$(y - 2)^2 = y^2 - 4y + 4$

$(z + 3)^2 = z^2 + 6z + 9$

Combine all terms:

$x^2 + 2x + 1 + y^2 - 4y + 4 + z^2 + 6z + 9 = 9$

Combine like terms:

=> $x^2 + y^2 + z^2 + 2x - 4y + 6z + 14 = 9$

Subtract 9 from both sides:

=> $x^2 + y^2 + z^2 + 2x - 4y + 6z + 5 = 0$

Therefore The correct answer is option (4).

Q53. Answer: (d) Rs. 6,25,000

Given:

Selling Price (SP) = Rs. 5,00,000

Discount = 20%

Formula used:

Original Price (OP) = SP/(1-Discount/100)

Calculation:

OP = (5,00,000)/(1-20/100)

=> OP = (5,00,000)/0.8

=> OP = Rs. 6,25,000

Therefore The correct answer is option (4).

Q54. Answer: (a) 264/73

Given:

6 engineers can complete the work in 5 days

5 skilled workers can complete the work in 7 days

7 engineers and 4 skilled workers are working together

Formula used:

Work done per day = 1 ÷ Time taken to complete the work

Total work done by engineers and skilled workers per day = (Work done by engineers per day + Work done by skilled workers per day)

Calculations:

Work done by 6 engineers in 1 day = 1 ÷ 5

=> Work done by 1 engineer in 1 day = (1 ÷ 5) ÷ 6 = 1 ÷ 30

Work done by 7 engineers in 1 day = 7 × (1 ÷ 30) = 7 ÷ 30

Work done by 5 skilled workers in 1 day = 1 ÷ 7

=> Work done by 1 skilled worker in 1 day = (1 ÷ 7) ÷ 5 = 1 ÷ 35

Work done by 4 skilled workers in 1 day = 4 × (1 ÷ 35) = 4 ÷ 35

Total work done by 7 engineers and 4 skilled workers in 1 day = 7 ÷ 30 + 4 ÷ 35

=> Total work per day = (245 + 120) ÷ 1050 = 365 ÷ 1050

=> Total work per day = 73 ÷ 210

=> Time taken to complete the work = 210 ÷ 73

=> Time taken = 2 ^(64) / 73.

Therefore The correct answer is days.

Q55. Answer: (c) 4 : 1

Given:

Proposals in 2016 = 40%

Buildings completed in 2016 = 10%

Formula used:

Ratio = Proposals / Buildings completed

Calculation:

=> Ratio = 40/10

=> Ratio = 4 : 1

Therefore The ratio of proposals to buildings completed for the year 2016 is 4:1.

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Q56. Answer: (a) 84.5

Given:

The marks obtained by the seven students in Chemistry are:

• Ayush = 65

• Aman = 104

• Sajal = 78

• Rohit = 84.5

• Muskan = 84.5

• Tanvi = 97.5

• Tarun = 45.5

Formula used:

The median is the middle value when the numbers are arranged in ascending order.

Calculation:

Arrange the Chemistry marks in ascending order: 45.5, 65, 78, 84.5, 84.5, 97.5, 104

The median is the 4th value in the ordered list.

=> Median = 84.5

Therefore The median raw score of the marks obtained by the seven students in Chemistry is 84.5.

Q57. Answer: (b) 24/25 and 7/24

Given:

$\sin \theta = 7/25$

Formula used:

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

$\tan \theta = (\sin \theta)/(\cos \theta)$

Calculation:

$\sin \theta = 7/25$

$\Rightarrow \cos^2 \theta = 1 - \sin^2 \theta$

$\Rightarrow \cos^2 \theta = 1 - (7/25)^2$

$\Rightarrow \cos^2 \theta = 1 - 49/625$

$\Rightarrow \cos^2 \theta = (625 - 49)/625$

$\Rightarrow \cos^2 \theta = 576/625$

$\Rightarrow \cos \theta = 24/25$ (since θ is in the first quadrant, $\cos \theta$ is positive)

$\Rightarrow \tan \theta = (\sin \theta)/(\cos \theta)$

$\Rightarrow \tan \theta = (7/25)/(24/25)$

$\Rightarrow \tan \theta = 7/24$

Therefore The correct answer is option (2).

Q58. Answer: (a) 8√2

Given:

The lines $x + y = 10$ and $-3x + y = 2$ have a unique solution.

What is the distance (in units) between the unique solution and the point of intersection of the line $x + y = 10$ and the x-axis?

Formula used:

Distance formula: $\sqrt{((x2 - x1)^2 + (y2 - y1)^2)}$

Calculation:

Solving the system of equations:

$x + y = 10$ ...(1)

$-3x + y = 2$ ...(2)

Subtracting (2) from (1):

$\Rightarrow x + y - (-3x + y) = 10 - 2$

$\Rightarrow x + y + 3x - y = 8$

$\Rightarrow 4x = 8$

$\Rightarrow x = 2$

Substituting x = 2 in (1):
=> 2 + y = 10
=> y = 8
So, the unique solution is (2, 8).
Point of intersection of x + y = 10 and x-axis:
On the x-axis, y = 0.
=> x + 0 = 10
=> x = 10
So, the point of intersection is (10, 0).
Using the distance formula:
=> Distance = $\sqrt{((10 - 2)^2 + (0 - 8)^2)}$
=> Distance = $\sqrt{(8^2 + (-8)^2)}$
=> Distance = $\sqrt{(64 + 64)}$
=> Distance = $\sqrt{128}$
=> Distance = $8\sqrt{2}$
Therefore The correct answer is option (1).

Q59. Answer: (a) 87/866

Given:
(5+7× 5÷ 8 of 5+3÷ 3× 5)/(6÷ 6 of 4+9× 9÷ 3× 2× 2)
Formula used:
Follow the BODMAS rule (Bracket, Order, Division, Multiplication, Addition, Subtraction) to solve the expression.
Calculations:
Numerator: 5 + 7 × 5 ÷ 8 of 5 + 3 ÷ 3 × 5
=> 5 + 7 × 5 ÷ 40 + 1 × 5
=> 5 + 7/8 + 5
=> (40 + 7 + 40)/8
=> 87/8
Denominator: 6 ÷ 6 of 4 + 9 × 9 ÷ 3 × 2 × 2
=> 6 ÷ 24 + 9 × 3 × 2 × 2
=> 1/4 + 108
=> (1 + 432)/4
=> 433/4
Final Expression:
=> (87/8)/(433/4)
=> 87 / 866
Therefore The value of the expression is 87 / 866.

Q60. Answer: (b) 75%

Given:
The average marks scored by the students of a class is 75.
The average marks scored by the girls in the same class is 90.
The average marks scored by the boys in the same class is 70.
Formula used:
Let the number of boys be B and the number of girls be G.
Average marks of the class = (Total marks scored by boys + Total marks scored by girls) / Total number of students
Total number of students = B + G
Total marks scored by boys = 70B
Total marks scored by girls = 90G
Average marks = 75
Calculation:
75 = (70B + 90G) / (B + G)

=> 75(B + G) = 70B + 90G
=> 75B + 75G = 70B + 90G
=> 75B - 70B = 90G - 75G
=> 5B = 15G
=> B / G = 15 / 5
=> B / G = 3
=> B = 3G
Percentage of boys in the class = (B / (B + G)) × 100
=> Percentage of boys = (3G / (3G + G)) × 100
=> Percentage of boys = (3G / 4G) × 100
=> Percentage of boys = 3/4 × 100
=> Percentage of boys = 75%
Therefore The correct answer is option (2).

Q61. Answer: (b) 35°

Shortcut Trick
Since U and V are midpoints of TR and NJ, TR = NJ => TU = NV.
By SSS congruence, ΔSTU ~= ΔMNV (ST = MN, SU = MV, TU = NV).
This gives angle NMV = angle TSU = 46° and angle MNJ = 180° − (46° + 88°) = 46°.
In ΔMNJ, angle MJN = 180° − (angle MNJ + angle NMJ) = 180° − (46° + 79°) = 55°.
By SAS congruence, ΔSTR ~= ΔMNJ => angle SRT = angle MJN = 55°.
Required measure = 7/11 × 55° = 35°.
Therefore The correct answer is 35°.
Alternate Method
Given:
=> Sides ST = MN
=> Side TR = NJ
=> Median SU = Median MV
=> angle TSU = 46°, angle NMJ = 79°, and angle MVN = 88°
Formula Used:
=> SSS Congruence Rule: If three sides are equal, the triangles are congruent.
=> SAS Congruence Rule: If two sides and the included angle are equal, the triangles are congruent.
S T R U 46° M N J V 79° 88° Therefore angle SRT = 55°
Calculations:
=> Since SU and MV are medians, U and V divide the bases TR and NJ into equal halves.
=> TR = NJ => TR/2 = NJ/2 => TU = NV
=> Consider ΔSTU and ΔMNV: ST = MN, SU = MV, and TU = NV.
=> By SSS congruence, ΔSTU ~= ΔMNV.
=> This implies corresponding angles are equal: angle NMV = angle TSU = 46°, and angle SUT = angle MVN = 88°.
=> In ΔMNV, using angle sum property: angle MNV = 180° − (46° + 88°) = 46°.
=> Angle angle MNJ is the same as angle MNV, hence angle MNJ = 46°.
=> In the full ΔMNJ, angle sum property gives: angle MJN = 180° − (angle MNJ + angle NMJ) = 180° − (46° + 79°) = 55°.
=> Now compare ΔSTR and ΔMNJ: ST = MN, TR = NJ, and the included angles angle STR = angle MNJ (since ΔSTU ~= ΔMNV).
=> By SAS congruence, ΔSTR ~= ΔMNJ.
=> Therefore, corresponding angles are equal: angle SRT = angle MJN = 55°.
=> Required value = 7/11 × angle SRT = 7/11 × 55° = 35°.
Therefore The correct answer is 35°.
Additional Information
Congruence of Triangles (SSS and SAS)
Two triangles are identically congruent if all three corresponding sides are equal (SSS), or if two sides and the included angle are equal (SAS). Congruent triangles have exactly the same size and shape.
Median of a Triangle

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A line segment joining a vertex to the exact midpoint of the opposite side. It cleanly divides the opposite side into two identical half-segments.

Angle Sum Property

The sum of all interior angles in any planar triangle always equals 180°. This is a fundamental rule used repeatedly to find unknown missing angles.

Q62. Answer: (a) 9,000

Given:

Simple Interest (SI) = Rs. 4,050

Rate (R) = 9% per annum

Time (T) = 5 years

Formula used:

SI = (P × R × T)/100

Where, P = Principal

Calculations:

4050 = (P × 9 × 5)/100

=> 4050 = 45P/100

=> 4050 = 0.45P

=> P = 4050/0.45

=> P = 9000

Therefore The correct answer is option (1).

Q63. Answer: (a) 50.24%

Given:

Ramesh sells an article for Rs. 34,440 after allowing an 18% discount on the marked price and still manages to gain a 40% profit.

Formula used:

Selling Price (SP) = Rs. 34,440

Discount = 18%

Profit = 40%

Cost Price (CP) = SP / (1 + Profit)

Marked Price (MP) = SP / (1 - Discount)

Calculations:

CP = 34,440 / (1 + 0.40)

=> CP = 34,440 / 1.40

=> CP = Rs. 24,600

MP = 34,440 / (1 - 0.18)

=> MP = 34,440 / 0.82

=> MP = Rs. 42,000

If Ramesh sold the article at a 12% discount on the marked price:

New SP = MP × (1 - 0.12)

=> New SP = 42,000 × 0.88

=> New SP = Rs. 36,960

New Profit = (New SP - CP) / CP

=> New Profit = (36,960 - 24,600) / 24,600

=> New Profit = 12,360 / 24,600

=> New Profit = 0.5024 = 0.5024 × 100 = 50.24%

Therefore The correct answer is option (1).

Q64. Answer: (c) 25%

Given:

Number of pens sold = 60

Gain = Selling price of 12 pens

Formula used:

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Gain % = (Gain/Cost price) × 100

Calculation:

Let the selling price of one pen be S.

Total selling price of 60 pens = 60 × S

Gain = 12 × S

=> Cost price = Selling price - Gain

=> Cost price = 60 × S - 12 × S = 48 × S

Now,

Gain % = (12 × S / 48 × S) × 100

=> Gain % = (12 / 48) × 100 = 25%

Therefore The gain percentage is 25%.

Q65. Answer: (a) 9.6 cm

Given:

In a right angle triangle with sides 12 cm and 16 cm and hypotenuse 20 cm, the length of altitude drawn on the hypotenuse from the opposite vertex is K. Find the value of K.

Formula used:

Area of triangle = 1/2 × base × height

Calculation:

Area using sides 12 cm and 16 cm:

=> Area = 1/2 × 12 × 16

=> Area = 96 cm^2

Area using hypotenuse 20 cm and altitude K:

=> Area = 1/2 × 20 × K

Equating both areas:

=> 96 = 1/2 × 20 × K

=> 96 = 10K

=> K = 96/10

=> K = 9.6 cm

Therefore The correct answer is option (1).

Q66. Answer: (b) 17%

Given:

Old Salary = Rs. 200 per day

New Salary = Rs. 234 per day

Formula used:

Percentage Increase = (New Salary - Old Salary)/(Old Salary) × 100

Calculation:

Percentage Increase = (234 - 200)/200 × 100

=> Percentage Increase = 34/200 × 100

=> Percentage Increase = (34 × 100)/200

=> Percentage Increase = 17%

Therefore The correct answer is option (2).

Q67. Answer: (d) 1575

Given:

Total production of C1 in 2022 = 4125

Percentage of production for C1 in 2022 = 27.5%

Total production ratio between 2019 and 2022 = 3:5

We need to find the total production of C3 in 2019.

Formula used:

Total production in 2022 (for all companies) = (Total production of C1 in 2022 / C1's percentage) × 100

Total production in 2019 (for all companies) = (Total production in 2022 × 3) / 5

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Total production of C3 in 2019 = (C3's percentage in 2019 × Total production in 2019) / 100

Calculation:

Total production in 2022 = (4125 / 27.5) × 100

=> Total production in 2022 = 15000

Total production in 2019 = (15000 × 3) / 5

=> Total production in 2019 = 9000

Total production of C3 in 2019 = (17.5 / 100) × 9000

=> Total production of C3 in 2019 = 1575

Therefore The total production of C3 in the year 2019 is 1575.

Q68. Answer: (c) 2

Given:

The income of the company for different years is:

2000: 60 lakhs

2001: 60 lakhs

2002: 40 lakhs

2003: 50 lakhs

2004: 30 lakhs

Formula used:

Average income = (Sum of incomes) / (Number of years)

Calculation:

Total income = 60 + 60 + 40 + 50 + 30 = 240 lakhs

Number of years = 5

Average income = 240 / 5 = 48 lakhs

Now, check the years where the income is less than 48 lakhs:

2000: 60 (greater than 48)

2001: 60 (greater than 48)

2002: 40 (less than 48)

2003: 50 (greater than 48)

2004: 30 (less than 48)

Therefore The income of the company is less than the average income in 2 years (2002 and 2004).

Q69. Answer: (d) 24

Given:

A tangent is drawn from a point at a distance of 25 cm from the Centre of a circle C(0, r) of radius 7 cm.

Formula used:

Length of tangent from a point to a circle = $\sqrt{(d^2 - r^2)}$

Where, d = distance from the center of the circle to the point, r = radius of the circle

Calculation:

Length of tangent = $\sqrt{(25^2 - 7^2)}$

=> Length of tangent = $\sqrt{(625 - 49)}$

=> Length of tangent = $\sqrt{576}$

=> Length of tangent = 24 cm

Therefore The correct answer is option (4).

Q70. Answer: (d) 35

Given:

A tangent is drawn from a point that is at a distance of 37 cm from the center of the circle O, and the diameter is 24 cm. The length (in cm) of the tangent is:

Formula used:

In a right-angled triangle formed by the radius, the tangent, and the line from the external point to the center:

$OP^2 = OT^2 + PT^2$

Where,

OP = Distance from the center to the external point = 37 cm
OT = Radius of the circle = 12 cm (since diameter is 24 cm)
PT = Length of the tangent
Calculation:
$37^2 = 12^2 + PT^2$
=> $1369 = 144 + PT^2$
=> $PT^2 = 1369 - 144$
=> $PT^2 = 1225$
=> $PT = \sqrt{1225}$
=> PT = 35 cm
Therefore The correct answer is option (4).

Q71. Answer: (c) 1270

Given:
One candidate secured 35% of votes and is defeated by 381 votes.
Formula used:
Let total votes be V.
Votes secured by the winning candidate = 65% of V
Votes secured by the losing candidate = 35% of V
Difference in votes = 381
Calculation:
65% of V - 35% of V = 381
=> 0.65V - 0.35V = 381
=> 0.30V = 381
=> 1270
Therefore The correct answer is option (3).

Q72. Answer: (c) 96 π cm3

Given:
Radius (r) = 6 cm
Slant height (l) = 10 cm
We need the height (h) of the cone to find the volume. Use the Pythagorean theorem:
Formula used:
$h = \sqrt{(l^2 - r^2)}$
Volume of the cone = $(1/3) \times \pi \times r^2 \times h$
Calculation:
$h = \sqrt{(10^2 - 6^2)}$
=> $h = \sqrt{(100 - 36)}$
=> $h = \sqrt{64}$
=> h = 8 cm
Now, volume = $(1/3) \times \pi \times 6^2 \times 8$
=> Volume = $(1/3) \times \pi \times 36 \times 8$
=> Volume = $(1/3) \times \pi \times 288$
=> Volume = 96π cm³
Therefore The volume of the cone is 96π cm³.<

Q73. Answer: (d) 720

Given:
Areas of three adjacent faces of a cuboidal box:
• Area 1 = 120 cm²
• Area 2 = 72 cm²
• Area 3 = 60 cm²
Formula used:

Volume of cuboid = √(Area 1 × Area 2 × Area 3)

Let the dimensions of the cuboid be l, b, and h. We have:

• l × b = 120

• b × h = 72

• h × l = 60

Volume of the cuboid (V) = l × b × h = √(l × b × b × h × h × l)

Calculation:

V = √(120 × 72 × 60)

=> V = √518400

=> V = 720 cm³

Therefore The volume of the cuboid is 720 cm³.

Q74. Answer: (a) 127

Given:

(45 + 9) ÷ 2 - 7 × 33 ÷ 7 + {(7 + 18) × 6} + 9 × 8 - 89

Formula used:

BODMAS/BIDMAS (Brackets, Orders (i.e. powers and square roots, etc.), Division and Multiplication, Addition and Subtraction)

Calculation:

(45 + 9) ÷ 2 - 7 × 33 ÷ 7 + {(7 + 18) × 6} + 9 × 8 - 89

=> 54 ÷ 2 - 7 × 33 ÷ 7 + {25 × 6} + 9 × 8 - 89

=> 27 - 7 × 33 ÷ 7 + 150 + 72 - 89

=> 27 - 231 ÷ 7 + 150 + 72 - 89

=> 27 - 33 + 150 + 72 - 89

=> 27 - 33 + 150 + 72 - 89

=> -6 + 150 + 72 - 89

=> 144 + 72 - 89

=> 216 - 89

=> 127

Therefore The correct answer is option (1).

Q75. Answer: (a) 35 : 64

Given:

A : B = 5 : 8

B : C = 7 : 8

Formula used:

To find A : C, we need to express both ratios in terms of a common factor for B.

Calculation:

Multiply A : B = 5 : 8 by 7 (the numerator of B : C):

=> A : B = 5 × 7 : 8 × 7 = 35 : 56

Multiply B : C = 7 : 8 by 8 (the denominator of A : B):

=> B : C = 7 × 8 : 8 × 8 = 56 : 64

Now, A : B : C = 35 : 56 : 64

Therefore, A : C = 35 : 64

Therefore A : C is 35 : 64.

Q76. Answer: (a) Right to property

The correct answer is Right to property

Key Points

• The property right was originally included in the Constitution of India as a fundamental right.

• However, it was removed from the list of fundamental rights through the 44th Amendment Act of 1978.

• It was subsequently made a legal right under Article 300A of the Constitution.

Additional Information

• Cultural and educational rights:

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• These rights are still part of the fundamental rights in India.
• They are enshrined in Articles 29 and 30 of the Constitution.
• Right to constitutional remedies:
• This right is also still a fundamental right in India.
• It is guaranteed by Article 32 of the Constitution, which allows individuals to directly approach the Supreme Court for the enforcement of their fundamental rights.
• Right to freedom of religion:
• This right is another fundamental right in India.
• It is protected by Article 25 to 28 of the Constitution.

Q77. Answer: (a) co-authoring

The correct answer is co-authoring

Key Points

• Co-authoring in Excel enables multiple users to work on the same spreadsheet simultaneously,
• making real-time edits and seeing each other's changes as they happen.
• This feature is particularly useful for collaborative projects where multiple individuals need to work on the same data.
• For example, a team of accountants might use co-authoring to collaborate on a financial report, while a group of students could use it to work on a group project.

Additional Information

• Data Validation:
• This feature is used to restrict the type of data that can be entered into a cell or range of cells.
• Conditional Formatting:
• This feature allows you to apply different formatting to cells based on specific conditions.
• Track Changes:
• This feature allows you to track the changes made to a document, including who made the changes and when.

Q78. Answer: (b) Kuiper Belt

The correct answer is Kuiper Belt

Key Points

• The Kuiper Belt is a vast region of icy bodies that extends beyond the orbit of Neptune.
• It is home to many dwarf planets, including Pluto.
• The Oort Cloud is another region of icy bodies,
• It is located even farther from the sun than the Kuiper Belt.

Additional Information

• Bow Shock
• A bow shock is a region of turbulent plasma that forms when a high-speed plasma flow encounters a stationary obstacle.
• While there are bow shocks in space, particularly around planets with magnetic fields, they do not refer to a flat ring of icy bodies.
• Oort Cloud
• The Oort Cloud is a spherical region of icy bodies that extends far beyond the Kuiper Belt.
• While both the Kuiper Belt and Oort Cloud contain icy bodies, the Oort Cloud is not a flat ring and is located at a much greater distance from the Sun.
• Asteroid Belt
• The Asteroid Belt is a region of rocky bodies located between the orbits of Mars and Jupiter.
• While both the Asteroid Belt and Kuiper Belt contain celestial bodies, the Asteroid Belt is primarily composed of rocky asteroids, not icy bodies, and is located closer to the Sun.

Q79. Answer: (a) run out

The correct answer is to run out

Key Points

• If the batter is run out, the run does not count and the bowler does not get credit for the wicket.
• A run out can happen when:
• A fielder throws the ball at the wicket
• A batter leaves the crease when the ball is not dead

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• So the run-out get credit in cricket

• Run out

• A run-out occurs when the batter is dismissed by being hit the wicket with the ball before they can ground their bat or any part of their body.

Additional Information

• LBW

• LBW (Leg Before Wicket) occurs when the ball pitches in front of the wicket, strikes the batter's leg, and would have gone on to hit the wicket had it not been stopped by the batter's leg.

• Bowled

• Bowled occurs when the batter is dismissed by having the ball hit their wicket directly.

• Catch

• A catch occurs when the fielder catches the ball before it touches the ground.

Q80. Answer: (a) PM Gati Shakti Master Plan

The correct answer is PM Gati Shakti's Master Plan

Key Points

• A revolutionary strategy for sustainable development and economic prosperity is PM GatiShakti. Seven engines—roads, railways, airports, ports, mass transit, waterways, and logistics infrastructure—power the strategy.

• The Union Minister for Finance & Corporate Affairs, Smt. Nirmala Sitharaman, stated that the seven engines will work together to propel the economy ahead while presenting the Union Budget 2022–23 to Parliament today.

• The complementing responsibilities of energy transmission, IT communication, bulk water & sewerage, and social infrastructure support these engines.

• In the end, she claimed, the strategy is driven by clean energy and Sabka Prayas, the combined efforts of the federal government, state governments, and the private sector, which will provide a tonne of job and business opportunities for everyone, especially the young.

Additional Information

• Garib Kalyan Rojgar Abhiyan

• It is Launched in June 2020, the Garib Kalyan Rojgar Abhiyan aims to provide employment opportunities to migrant workers who lost their jobs during the COVID-19 pandemic and returned to their home states.

• The scheme focuses on creating durable assets and infrastructure in rural areas through various projects related to roads, housing, irrigation, and sanitation, thereby enhancing rural livelihoods.

• The initiative has a budget of approximately Rs. 50,000 crore and targets 125 days of guaranteed wage employment for each worker.

• It encompasses multiple states and involves local self-governments and various ministries.

• Pradhan Mantri Mudra Yojana

• It is Launched in April 2015, this scheme aims to provide financial support to small and micro enterprises by offering loans up to Rs. 10 lakh without requiring collateral, promoting entrepreneurship among the lower-income segments of society.

• The Mudra Yojana categorizes loans into three types: Shishu (up to Rs. 50,000), Kishore (Rs. 50,000 to Rs. 5 lakh), and Tarun (Rs. 5 lakh to Rs. 10 lakh), catering to the varying needs of entrepreneurs at different stages.

• The scheme has facilitated millions of loans to small businesses across India, boosting self-employment and job creation while contributing to the overall economic growth of the country.

• Aatmanirbhar Bharat Rojgar Yojana

• It is Launched in October 2020 as part of the Aatmanirbhar Bharat Package, this scheme aims to incentivize employers to create new jobs and restore jobs lost during the COVID-19 pandemic by providing financial support.

• Under this scheme, the government provides a subsidy to employers for the new jobs created.

• It covers a significant portion of the employee's provident fund contributions for a specified period, reducing the financial burden on employers.

• The Aatmanirbhar Bharat Rojgar Yojana targets various sectors, focusing on encouraging the employment of women and marginalized communities, thereby promoting inclusive growth and sustainable employment opportunities.

Q81. Answer: (b) Udey Chand

The correct answer is Udey Chand.

Key Points

• Udey Chand was the first Indian wrestler to win a world championship medal.

• He bagged a bronze medal in the men's freestyle 67kg category at the 1961 world championships held in Yokohama, Japan.

• His journey to the bronze medal was marked by skill, determination, and a strong representation of Indian wrestling on the global stage.
• His achievement not only brought pride to India but also paved the way for future generations of Indian wrestlers.

Additional Information

• KD Jadhav:
• KD Jadhav is renowned for his bronze medal win in the 62 kg freestyle wrestling category at the 1952 Helsinki Olympics.
• This achievement brought India its first individual Olympic medal in wrestling.
• He was a multiple-time national champion in India, showcasing his dominance in the sport.
• Dara Singh:
• Dara Singh was a prominent figure in both the world of wrestling and Bollywood.
• He won numerous wrestling titles and starred in numerous popular films.
• His popularity helped to popularize wrestling in India, making it a widely recognized sport.
• Malwa Singh:
• Malwa Singh was a national champion in wrestling, demonstrating his skill and athleticism.
• He later transitioned to coaching and mentoring young wrestlers, contributing to the development of the sport in India.

Q82. Answer: (d) Mahanadi

The correct answer is Mahanadi

Key Points

• Chilika Lake is a renowned coastal lagoon situated in the eastern state of Odisha, India.
• It's known for its unique ecosystem, diverse flora and fauna, and scenic beauty.
• The lake is located to the south of the Mahanadi delta, making it an integral part of the coastal landscape of Odisha.
• It is a haven for a wide range of species, including migratory birds, fish, and aquatic plants
• The lake supports a thriving fishing industry, providing livelihoods to many local communities.

Additional Information

• Narmada River:
• The Narmada River flows through central India, originating in the Vindhya Range and emptying into the Arabian Sea.
• It is considered a sacred river in Hinduism, with numerous religious sites along its banks.
• Cauvery River:
• The Cauvery River flows through southern India, originating in the Western Ghats and emptying into the Bay of Bengal.
• It is a vital source of irrigation for agriculture in the southern states of Karnataka, Tamil Nadu, and Kerala.
• Godavari River:
• The Godavari River flows through both central and southern India, originating in the Western Ghats and emptying into the Bay of Bengal.
• It is the second-longest river in India after the Ganges.

Q83. Answer: (d) He is one among the trinity of Carnatic Music.

The correct answer is option 4

Key Points

• Syama Sastri is a revered name in the world of Carnatic music, a classical music tradition originating in South India.
• He is considered one of the "Trinity" of Carnatic music, along with Tyagaraja and Muthuswami Dikshitar.
• Syama Sastri introduced several musical innovations, including new ragas (musical scales) and rhythmic patterns.
• He was not only a skilled musician but also a talented poet and writer.
• His compositions often incorporated literary elements, such as metaphors and symbolism.

Q84. Answer: (b) Kerala

The correct answer is Kerala

Key Points

• Mohiniyattam is a classical dance form originating from the state of Kerala in South India.
• It is known for its graceful movements, intricate hand gestures, and expressive storytelling.
• Mohiniyattam is characterized by its fluid, undulating movements, which are said to resemble the swaying of a palm tree in the wind.
• The dancers' expressions and gestures are also crucial in conveying the emotions and stories behind the dance.

Additional Information

State	Classical Dance Form	Brief Description
Assam	Sattriya	A religious dance form associated with Vaishnavism, known for its rhythmic movements and spiritual themes.
Kerala	Mohiniyattam	A feminine dance form characterized by its graceful movements, intricate hand gestures, and storytelling.
Tamil Nadu	Bharatanatyam	A highly expressive dance form known for its intricate footwork, rhythmic patterns, and storytelling.
Tripura	Tripura Dance	A diverse range of folk dances, including the Goria, Hojagiri, and Debdasi, which showcase the cultural heritage of Tripura.

Q85. Answer: (d) Ministry of Corporate Affairs

The correct answer is the Ministry of Corporate Affairs

Key Points

• The Ministry of Corporate Affairs published the amended rules related to Corporate Social Responsibility (CSR) in the year 2021.

• These amendments aimed to clarify certain provisions, enhance transparency, and promote effective implementation of CSR activities by companies.

• The Ministry of Corporate Affairs (MCA) is a government department in India responsible for overseeing and regulating the corporate sector.

• It plays a crucial role in promoting transparency, accountability, and good governance within companies.

Additional Information

• Ministry of New and Renewable Energy: This ministry is responsible for promoting the development and utilization of new and renewable energy sources in India.

• Ministry of Home Affairs: This ministry is responsible for internal security, law and order, and border management in India.

• Ministry of Science and Technology: This ministry is responsible for promoting scientific research, development, and innovation in India.

Q86. Answer: (c) 19 December 2022

The correct answer is 19 December 2022

Key Points

• The Wild Life (Protection) Amendment Act, 2022, was a significant piece of legislation aimed at strengthening the protection of wildlife and their habitats in India.

• It introduced several key amendments to the existing Wild Life Protection Act, 1972.

• The Wild Life (Protection) Amendment Act, 2022 received the assent of the President on 19 December 2022.

• This amendment aimed to strengthen the protection of wildlife and their habitats in India.

• The Act increased penalties for wildlife offenses, making them more stringent to deter illegal activities.

Q87. Answer: (b) Myanmar

The correct answer is Myanmar

Key Points

• Myanmar, also known as Burma, is a Southeast Asian country located on the western coast of the Malay Peninsula.

• It shares borders with India, Bangladesh, China, Laos, and Thailand.

• The Kachin, Karen, Karenni, Chin, and Mon ethnic groups are among the many diverse ethnicities that inhabit Myanmar.

• Each group has its own unique language, culture, and history.

• They have often faced challenges related to political marginalization, cultural suppression, and conflict with the Myanmar government.

• These groups are primarily concentrated in the northern and eastern regions of the country, where they have their own traditional territories and communities.

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Q88. Answer: (c) 1928

The correct answer is 1928

Key Points

• The Board of Control for Cricket in India (BCCI) was formed in 1928.

• It is the governing body for cricket in India and is responsible for organizing and managing all cricketing activities in the country.

• The primary objectives of the BCCI include the promotion and development of cricket in India,

• organizing domestic and international matches, and ensuring the smooth functioning of the sport at all levels.

• It plays a critical role in representing Indian cricket on the global stage, especially in international cricketing forums.

• The BCCI became a full member of the International Cricket Council (ICC) in 1965, giving it a significant role in international cricket governance.

• The board has since been instrumental in shaping modern cricket, particularly with the rise of the Indian Premier League (IPL) in 2008,

• which has revolutionized the format and commercial aspects of the game.

Q89. Answer: (c) Function key F5

The correct answer is Function key F5

Key Points

• F5 is the standard keyboard shortcut to start a slide show from the beginning in Microsoft PowerPoint.

• When you press F5, PowerPoint begins the presentation from the first slide, advancing to the next slide automatically or manually based on your settings.

• This shortcut is designed to be intuitive and efficient, allowing you to quickly start and navigate your presentation.

Additional Information

• F2: This key is used to rename the currently selected file or folder.

• F4: In PowerPoint, F4 repeats the last action that was performed.

• F8: This key is used to activate the extended selection mode, allowing you to select multiple non-adjacent objects.

Q90. Answer: (b) A love poem

The correct answer is a love poem

Key Points

• In Carnatic music, a "Padam" is a type of song that typically expresses love or longing.

• They are often set in a slow tempo and feature intricate musical embellishments.

Additional Information

• A lullaby

• While there are musical pieces in Carnatic music that can be considered lullabies, they are typically referred to as "Thillana" or "Tillana."

• A poem about courage

• While there are Carnatic songs that express heroic themes, they are generally referred to as "Virutham" or "Virutham Kritis."

• A patriotic poem

• While there are Carnatic songs that express nationalistic sentiments, they are typically referred to as "Desha Bhakti Geethe" or "Desha Bhakti Kritis."

Q91. Answer: (b) 1050

The correct answer is 1050

Key Points

• Calculating Personal Income

• Private Income:

• This is the total income earned by individuals and businesses within a country, excluding government income.

• Net Retained Earnings:

• These are the profits that a company keeps after paying dividends to shareholders.

• Corporation Tax:

• This is a tax levied on the profits of corporations.

• Formula Used :

• Personal Income = Private Income - Net Retained Earnings - Corporation Tax

• Given Data:

• Private Income = Rs. 1800 crore
• Net Retained Earnings = Rs. 500 crore
• Corporation Tax = Rs. 250 crore
• Personal Income = 1800 crore - 500 crore - 250 crore = 1050 crore
• Therefore, the personal income is Rs. 1050 crore.

Q92. Answer: (d) Wheat

The correct answer is Wheat

Key Points

• The Green Revolution increased the yields of wheat and rice, the most benefited food grains.
• The green revolution was a period of agricultural innovation that took place in the 1960s and 1970s.
• Its aim was to increase the productivity of crops and ensure food security for the growing population.
• Food grains were the main beneficiaries of the green revolution.
• Crops like wheat and rice were developed to be high-yielding and disease-resistant
• This led to a reduction in food shortages and a decrease in prices.

Additional Information

• Vegetables, oilseeds, and pulses also benefited from the green revolution, but to a lesser extent.
• Oilseeds refer to crops like soybean, cottonseed, and sunflower that are grown for their oil content.
• The green revolution led to the development of high-yielding varieties of these crops, which helped to meet the growing demand for cooking oil.
• Pulses are a group of crops that includes lentils, chickpeas, and beans.
• These crops are a good source of protein, but their productivity was low before the green revolution.
• New varieties of pulses were developed that were more productive and had better resistance to pests and diseases.

Q93. Answer: (b) Zeliangrong

The correct answer is Zeliangrong

Key Points

• The Zeliangrong tribe of Manipur celebrates the Gaan-Ngai festival, which is a post-harvest festival.
• It is an important traditional festival of the Zeliangrong people,
• It is celebrated with great enthusiasm and includes rituals, dances, feasts, and offerings to ancestors, marking the end of the agricultural season.

Additional Information

• Gangte
• The Gangte tribe has a rich cultural heritage that includes traditional music, dance forms, and art.
• They celebrate various festivals that reflect their customs and beliefs, with Chavang Kut being one of the significant harvest festivals.
• The Gangte people speak the Gangte language, which belongs to the Kuki-Chin linguistic group.
• Their language is an essential part of their identity and is used in daily communication and cultural expressions.
• Chothe
• The Chothe tribe primarily engages in agriculture, cultivating crops such as rice, maize, and vegetables.
• Their agricultural practices are closely linked to their cultural identity and traditions.
• The Chothe people celebrate various traditional festivals, including the Chothe Festival,
• which marks significant agricultural events and community gatherings, reflecting their connection to nature and agricultural cycles
• Inpui
• The Inpui tribe, also known as Kabui, is one of the Naga tribes in Manipur.
• They have a distinct ethnic identity characterized by their traditional attire, customs, and social practices.
• The Inpui people celebrate various traditional festivals, such as the Mimkut festival, which is a harvest festival.
• These celebrations include rituals, feasting, and community gatherings that strengthen their cultural ties.

Q94. Answer: (b) prohibition of discrimination against any citizen on grounds only of religion, race, caste, sex or place of...

The correct answer is option 2

Key Points

• Article 15 of the Constitution of India prohibits discrimination by the state against any citizen on these specific grounds.

• It ensures equality and protects individuals from being discriminated against in matters such as access to public places, use of public facilities, and other civil rights.

• Article 15 ensures that no citizen is discriminated against by the state based on religion, race, caste, sex, or place of birth in various spheres of life, including access to public facilities and services.

• It also empowers the state to make special provisions for women, children, and socially and educationally backward classes, including Scheduled Castes and Scheduled Tribes.

Additional Information

• Freedom of speech and expression (Article 19):

• Article 19(1)(a) guarantees all citizens the right to freely express their thoughts, opinions, and beliefs without fear of censorship or punishment.

• However, this right is subject to reasonable restrictions in the interest of sovereignty, public order, decency, or security of the state.

• Cultural and educational rights (Articles 29 and 30):

• Article 29 ensures that any section of citizens with a distinct language, script, or culture has the right to conserve it, and it also prohibits denial of admission to educational institutions based on these grounds.

• Article 30 gives minorities the right to establish and administer their own educational institutions to preserve their cultural identity.

• Equality of opportunity in employment (Article 16):

• Article 16 guarantees equal opportunity for all citizens in matters of public employment or appointment to any office under the state, regardless of religion, race, caste, sex, descent, or place of birth.

• The article also allows for reservations or affirmative actions in favor of socially and educationally backward classes to ensure fair representation in public employment.

Q95. Answer: (d) Cholera

The correct answer is Cholera

Key Points

• Cholera is a food-borne disease caused by consuming water or food contaminated with the bacterium Vibrio cholerae.

• It leads to severe diarrhoea and dehydration.

• The disease is commonly spread in areas with poor sanitation and unsafe water supplies

• he hallmark symptoms of cholera include profuse watery diarrhoea, often described as "rice water stools," vomiting, and severe dehydration.

• If left untreated, dehydration can lead to shock, kidney failure, and death, sometimes within hours.

Additional Information

• Tuberculosis is an infectious disease caused by Mycobacterium tuberculosis.

• It primarily affects the lungs but can spread to other parts of the body.

• The disease is transmitted through airborne particles when an infected person coughs or sneezes.

• Chicken pox is a highly contagious viral infection caused by the varicella-zoster virus. It causes an itchy rash with red spots and blisters.

• The disease spreads through direct contact with an infected person or through the air by respiratory droplets.

• Malaria is a parasitic disease caused by Plasmodium species, transmitted through the bite of an infected Anopheles mosquito.

• It affects red blood cells and causes symptoms like fever, chills, and anemia, predominantly in tropical and subtropical regions.

Q96. Answer: (c) Khilafat Movement

The correct answer is the Khilafat Movement

Key Points

• The Khilafat Movement was led by the Ali brothers (Shaukat Ali and Mohammad Ali) and Maulana Abul Kalam Azad

• to protest against the disintegration of the Ottoman Empire after World War I and to protect the institution of the Caliphate,

• which they considered a symbol of unity among Muslims.

• It was a significant movement in India, seeking to rally Muslims and Hindus in opposition to British rule.

Additional Information

• Wahabi Movement:

• It emerged in the early 19th century in India, inspired by the teachings of Muhammad ibn Abd al-Wahhab in Arabia.

• The movement aimed to purify Islam by removing practices considered to be innovations (bid'ah) and restoring monotheism (tawhid).

• It also opposed British colonial rule and encouraged jihad against foreign powers, becoming associated with resistance movements in India.

• Faraizi Movement:

• It was started by Haji Shariatullah in Bengal in the early 19th century, focusing on the strict observance of Islamic obligations (Faraiz).

• The movement sought to eliminate un-Islamic practices and customs that had crept into the lives of Bengali Muslims, particularly under British rule.

• It also had an anti-landlord and anti-colonial component, with a significant following among peasants, advocating for their rights against oppressive landlords.

• Ahmadiya Movement:

• Founded by Mirza Ghulam Ahmad in 1889 in India, the movement claims that Ahmad is the promised Messiah and Mahdi of Islam.

• It promotes peaceful propagation of Islam and stresses rational discourse, interfaith harmony, and religious tolerance.

• The movement is controversial within mainstream Islam due to its belief in Ahmad's prophetic role, which is seen by some as a challenge to the finality of Prophet Muhammad's prophethood

Q97. Answer: (c) Leh airport

The correct answer is Leh airport.

Key Points

• The Leh Airport is being built as India's first carbon-neutral airport.

• The airport will use a geothermal system and solar PV plant to heat and cool the terminal building.

• The system will concentrate naturally existing heat and use it for space heating, cooling, and water heating.

Additional Information

• Some important airport of India.

International Airport Name	International Airport Location
Chhatrapati Shivaji International Airport	Mumbai, Maharashtra
Kempegowda International Airport	Bangalore, Karnataka
Chennai International Airport	Chennai, Tamil Nadu
Netaji Subhas Chandra Bose International Airport	Kolkata, West Bengal
Chaudhary Charan Singh International Airport	Lucknow, Uttar Pradesh
Sri Guru Ram Dass Jee International Airport	Amritsar
Visakhapatnam International Airport	Visakhapatnam, Andhra Pradesh
Kannur International Airport	Kannur, Kerala
Swami Vivekananda International Airport	Raipur, Chhattisgarh
Surat International Airport	Surat, Gujarat
Devi Ahilya Bai Holkar Airport	Indore, Madhya Pradesh
Cochin International Airport	Kochi, Kerala
Sardar Vallabhbhai Patel International Airport	Ahmedabad, Gujarat
Indira Gandhi International Airport	Delhi
Dabolim Airport	Goa
Pune International Airport	Pune, Maharashtra
Thiruvananthapuram International Airport	Thiruvananthapuram, Kerala
Coimbatore International Airport	Coimbatore, Tamil Nadu
Calicut International Airport	Calicut, Kerala
Biju Patnaik International Airport	Bhubaneswar, Odisha
Lokpriya Gopinath Bordoloi International Airport	Guwahati, Assam

Lal Bahadur Shastri International Airport	Varanasi, Uttar Pradesh
Rajiv Gandhi International Airport	Hyderabad, Telangana
Tiruchirappalli International Airport	Tiruchirappalli, Tamil Nadu
Dr. Babasaheb Ambedkar International Airport	Nagpur, Maharashtra
Sheikhul Aalam International Airport	Srinagar, Jammu and Kashmir
Imphal International Airport	Imphal, Manipur
Jaipur International Airport	Jaipur, Rajasthan
Madurai International Airport	Madurai, Tamil Nadu
Bagdogra International Airport	Siliguri, West Bengal
Jay Prakash Narayan International Airport	Patna, Bihar
Mangaluru International Airport	Mangalore, Karnataka
Chandigarh International Airport	Chandigarh
Veer Savarkar International Airport	Port Blair, Andaman and Nicobar Islands

Q98. Answer: (a) Heinrich Hertz

The correct answer is Heinrich Hertz.

Key Points

• Heinrich Hertz

• Scottish physicist James Clerk Maxwell, who developed a unified theory of electromagnetism in the 1870s, predicted the existence of radio waves.

• Later, Heinrich Hertz, a German physicist, applied Maxwell's theories to the production and reception of radio waves.

• Italian inventor Guglielmo Marconi after several years starting in 1894 built the first complete, commercially successful wireless telegraphy system based on airborne Hertzian waves or the radio waves in the year 1895.

Additional Information

• Hopkinson’s test:

• It is a full load test, used to test the efficiency of a DC machine.

• Temperature rise and commutation can be observed and maintained in the limit because this test is done under full load condition.

• It requires two identical machines that are coupled to each other. One of these two machines is operated as a generator to supply the mechanical power to the motor and the other is operated as a motor to drive the generator.

• It is also called a regenerative test or back to back test or heat run test.

• Guglielmo Marconi

• Italian physicist and inventor of the successful wireless telegraph (1896).

• He received the Nobel Prize for Physics in 1909.

• He worked on the development of shortwave wireless communication, which constitutes the basis of nearly all modern long-distance radio.

• It meant a giant leap – from an era of communication using wires to communicating without using wires. (Wireless).

• Michael Faraday:

• He is known as the Father of Electricity.

• He discovered the laws of electromagnetism.

• He also discovered the induction of electric current.

• He also discovered benzene in the year 1825.

• He also built the first electric generator and first electric motor.

Q99. Answer: (d) a-3, b-4, c-2, d–5

The correct answer is a-3, b-4, c-2, d–5.

Key Points

• National Waterway 1 (NW-1) or the Ganga-Bhagirathi-Hooghly river system is located in India and runs across the Ganges from Prayagraj in Uttar Pradesh to Haldia in West Bengal via Patna and Bhagalpur in Bihar.

• The Ganga - Bhagirathi - Hooghly river system between Haldia (Sagar) and Allahabad (1620 km) was declared as National Waterway-1 (NW-1) in 1986.

• Since then IWAI is carrying out various developmental works on the waterway for improvement of its navigability and also development and maintenance of other infrastructures such as navigation aids and terminal facilities as laid down in the IWAI Act, 1985 (82 of 1985).

Additional Information

Name	River	States
NW-1	Allahabad-Haldia stretch of the Ganga-Bhagirathi-Hooghly Rivers	UP, Bihar, Jharkhand, West Bengal
NW-2	Sadiya-Dhubri stretch of Brahmaputra River	Assam
NW-3	Kollam-Kozhikode stretch of West Coast Canal and Champakara canal and Udyogmandal canal	Kerala
NW-4	Kakinada to Puducherry (Buckingham canal) Andhra Pradesh	Andhra Pradesh, Tamil Nadu and Puducherry
NW-6	Aai River, Barak River	Assam
NW-16	Barak River	Assam

Q100. Answer: (a) Vikramaditya VI

The correct answer is Vikramaditya VI.

Key Points

• Vikramaditya VI, whose court poet Bilhan wrote his biography, was the ruler of the Chalukya dynasty.

• The Chalukya dynasty was established by Pulakeshin I in 543.

• Pulakeshin I took Vatapi (modern Badami in Bagalkot district, Karnataka) under his control and made it his capital.

• Pulakeshin I and his descendants are referred to as "Chalukyas of Badami".

• The earliest dynasty, known as the "Badami Chalukyas", ruled from Vatapi (modern Badami) from the middle of the 6th century.

• Bilhana was a Sanskrit writer and a well-known Kashmiri poet.

• He was born in Kavi Bilhana in the middle of the 11th century.

Additional Information

• Kulothunga I

• He was an 11th-century Chola Emperor.

• He ruled for nearly fifty-two years.

• He succeeded his father, Rajaraja Narendra and served as the Eastern Chalukya Emperor.

• He was the first ruler in the Chola-Chalukya line.

• Kulottunga had diplomatic relations with Kanauj, Cambodia, Khmer, Pagan and China.

• He was a patron of arts and celebrated the Tamil poem 'Kalingattuparani'.

• Rajaraja II

• Rajaraja II was a Chola emperor who reigned from 1143 CE to 1173 CE.

• Rajaraja's reign began to show signs of the coming end of the dynasty.

• Vijayaditya VII

• Vijayaditya VII was the last ruler of the Eastern Chalukya dynasty, which ruled parts of South India from the 7th to the 12th centuries.

• His reign was marked by decline and political instability, leading to the eventual downfall of the dynasty.

• He was a puppet king under the influence of the Kakatiyas, a rival dynasty that eventually absorbed the Eastern Chalukyas into their empire.

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