SSC CHSL Tier-1 2023: Official Paper (Held On: 07 Aug, 2023 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2023 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(a) HJN
(b) LOQ
(c) PSU
(d) MPR

Q2. AKM is related to DNP in a certain way based on the English alphabetical order. In the same way, BTS is related to EWV. To which of the following is LGK related following the same logic?

(a) OJN
(b) MHC
(c) KGL
(d) ADH

Q3. In a certain code language,

A + B means 'A is the son of B',

A - B means 'A is the wife of B',

A × B means 'A is the brother of B',

A ÷ B means 'A is the mother of B'.

Based on the above, if 'P - Q × R + S ÷ T', which of the following is true?

(a) Q is the son of S.
(b) S is the mother of P.
(c) P is the daughter of T.
(d) T is the son of S.

Q4. Select the triad in which the numbers are related in the same way as are the numbers of the following triads.

5 - 70 - 9

8 - 95 - 11

(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)

(a) 12 - 144 - 15
(b) 17 - 135 - 21
(c) 6 - 135 - 21
(d) 4 - 28- 79

Q5. Each of the letters in the word NERVOUS are arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter that is fourth from the left and the one that is second from the right in the new letter - cluster thus formed?

(a) Two
(b) Six
(c) Four
(d) Three

Q6. In the following number - pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the option in which the numbers are related in the same way as are the numbers of the following pairs.

(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.)

9, 77

16, 252

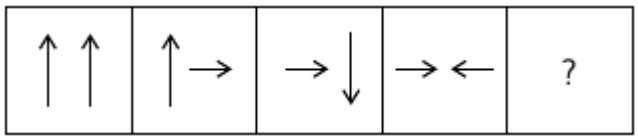
(a) 12, 132
(b) 11, 117
(c) 15, 125
(d) 7, 54

Q7. What should come in place of the question mark (?) in the given series?

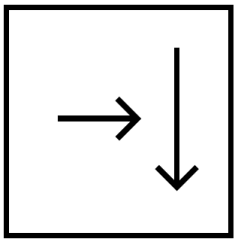
11, 12, 26, 81, 328, 1645, ?

(a) 5320
(b) 9876
(c) 2243
(d) 1824

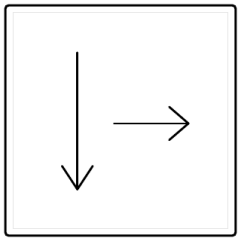
Q8. Identify the figure given in the options which when put in place of ? will logically complete the series.



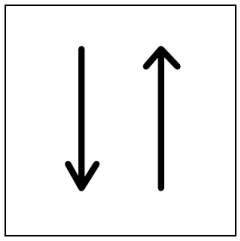
(a)



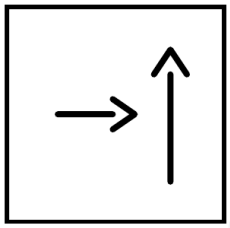
(b)



(c)



(d)



Q9. Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

_utt _ tt _ ttu _

(a) uutt
(b) tutu
(c) ttuu
(d) tuut

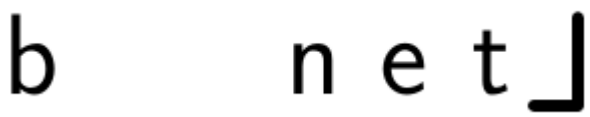
Q10. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



(b)



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(c)



(d)



Q11. In a certain code language, 'NATURE' is coded as '279346' and 'LEARNT' is coded as '794621'. What is the code for 'L' in the given code language?

(a) 2
(b) 1
(c) 7
(d) 9

Q12. 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?

11 B 42 A 3 C 41 D 27 = ?

(a) 171
(b) 164
(c) 159
(d) 168

Q13. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

XZY, UWV, RTS, OQP, ?

(a) LNM
(b) JKL
(c) LMN
(d) KML

Q14. Which term from among the given options can replace the question mark (?) in the following series to make it logically complete?

CO 29, EQ 27, ?, IU 23, KW 21

(a) HS 24
(b) GS 25
(c) HT 24
(d) IR 26

Q15. In a certain code language,

N + V means 'N is the daughter of V',

N - V means 'N is the father of V',

N @ V means 'N is the wife of V',

N × V means 'N is the son of V'.

If B + R × M - P, then how is B related to M?

(a) Sister
(b) Daughter
(c) Daughter's daughter
(d) Son's daughter

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Q16. Select the option in which the numbers do NOT share the same relationship as that shared by the given pairs of numbers.

(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.)

11 : 35 and 13 : 41

(a) 19 : 59
(b) 23 : 71
(c) 32 : 95
(d) 16 : 50

Q17. 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?

3 B 27 D 5 C 7 A 7 = ?

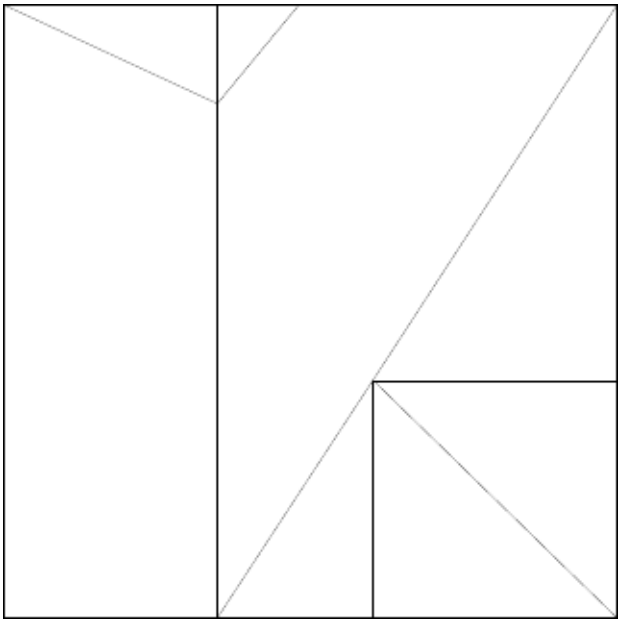
(a) 57
(b) 87
(c) 77
(d) 67

Q18. Which number from among the given options can replace the question mark (?) in the following series?

83, ?, 92, 107, 101, 116

(a) 81
(b) 89
(c) 91
(d) 98

Q19. How many triangles are there in the given figure?



(a) 8
(b) 11
(c) 9
(d) 10

Q20. In a certain code language, 'CHASE is coded as 'IQGBK' and 'WHALE' is coded as 'CQGUK. What is the code for 'ANCIENT' in the given code language?

(a) GWIRJWZ
(b) GWIRKWZ
(c) GWIRKMZ

(d) GWIPKWZ

Q21. Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

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(a) 13 - 144
(b) 9 - 63
(c) 8 - 48
(d) 11 - 99

Q22. 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 :

All flags are symbols.

All symbols are prides.

Some prides are bright.

Conclusions :

(I) All flags are prides.

(II) Some flags are bright is a possibility.

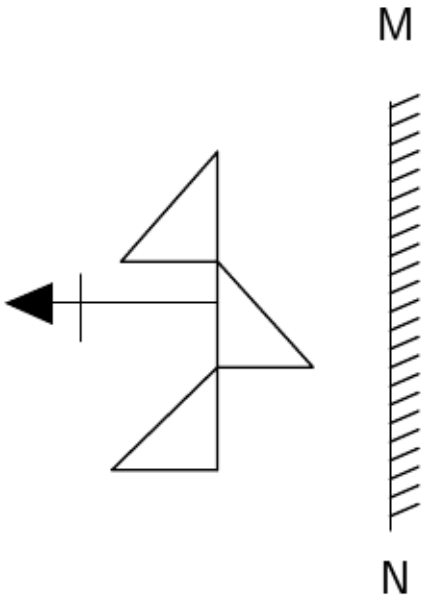
(III) Some symbols are bright is a possibility.

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) All conclusions I, II and III follow
(d) Both conclusions I and II follow

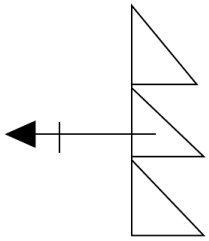
Q23. 'JMOP' is related to 'GJLM' in a certain way based on the English alphabetical order. In the same way, 'EHJK' is related to 'BEGH'. To which of the following is 'DGIJ' related, following the same logic?

(a) ADFG
(b) ABEF
(c) AEFI
(d) ADFI

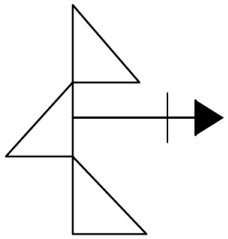
Q24. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



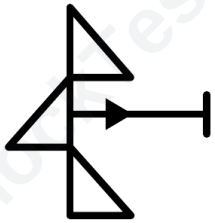
(a)



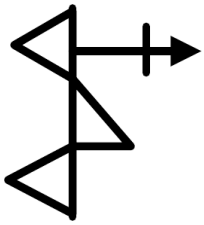
(b)



(c)



(d)



Q25. If it was Thursday yesterday, then what was the day of the week 73 days ago from today?

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

GENERAL INTELLIGENCE

Q26. Which of the following places is the origin of river Indus?

(a) Bokhar Chu
(b) Gangotri Glacier
(c) Chemayungdung Glacier
(d) Zemu Glacier

Q27. Who among the following Indian dancers was awarded the Sangeet Natak Akademi Award 2020 for contribution to Odissi dance?

(a) Brajendra Kumar Pattnaik
(b) Balkar Sidhu
(c) Rabindra Atibudhi
(d) Pasumarthy Vithal

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Q28. The correct electronic configuration of Cu is:

(a) [Ar]3d^94s²
(b) [Kr]3d^94s²
(c) [Kr]3d^(10)4s¹
(d) [Ar]3d^(10)4s¹

Q29. Which of the following festivals is mainly related to Manipur?

(a) Yushang
(b) Crutch
(c) Wangala
(d) Hareli

Q30. Which of the following statements is correct about the Directive Principles of State Policy of the Indian Constitution?

(a) Consists of Art. 12 to 32
(b) It has been borrowed from the Soviet Union
(c) They are enumerated in Part II of the Constitution
(d) Is described as 'novel feature of the Constitution'

Q31. What is the state of matter that exhibits behaviour uniformity?

(a) Snow
(b) Solid
(c) Liquid
(d) Gas

Q32. At what temperature (in degree Celsius) is milk heated for 15 to 30 seconds to kill microbes in the pasteurisation method?

(a) 45
(b) 100
(c) 70
(d) 20

Q33. Which state's governor approved the Prohibition of Online Gaming and Regulation of Online Games Bill 2022?

(a) Tamil Nadu
(b) Andhra Pradesh
(c) Gujarat
(d) Punjab

Q34. In the Indian Constitution the concept of 'equality before law' is borrowed from the _____ constitution.

(a) British
(b) Canadian
(c) US
(d) Irish

Q35. Gross primary deficit is equal to _____.

(a) difference between gross fiscal deficit and interest payments
(b) difference between total expenditure and total receipts
(c) difference between net borrowings and net capital receipts
(d) difference between revenue deficit and capital expenditure

Q36. Who among the following Indian shuttlers has won the Silver medal in the u - 17 women's singles at Badminton Asia Junior Championship 2022?

(a) Amar Verma
(b) Aryan Shah
(c) Unnati Hooda
(d) Abhishek Kiran

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Q37. Which of the following was the capital of the Hindu Shahi kingdom?

(a) Srinagar
(b) Lahore
(c) Waihind
(d) Multan

Q38. Pandavani Folk singer _____ is a Padma Bhushan Awardee of 2003.

(a) Sulakshana Pandit
(b) Teejan Bai
(c) Mamta Chandrakar
(d) Ila Arun

Q39. Which of the following players won Silver at the Tokyo Olympics 2020?

(a) Mirabai Chanu and Sushil Kumar
(b) PV Sindhu and Sushil Kumar
(c) Ravi Kumar Dahiya and Mirabai Chanu
(d) Ravi Kumar Dahiya and Sushil Kumar

Q40. In which session of the Indian National Congress was the resolution declaring Poorna Swaraj passed?

(a) Calcutta
(b) Bombay
(c) Madras
(d) Lahore

Q41. With reference to Manipuri classical dance which of the following statements is correct?

a) Lai Haraoba is the earliest form of Manipuri dance.
b) Ras, Sankirtana and Thang-Ta are the most popular forms of this dance.
c) Manipuri dance has its origin in the Jain traditional dance form.

(a) a, b, c
(b) Both a and c
(c) Both a and b
(d) Both b and c

Q42. According to David Ricardo, during a high deficit situation taxation and borrowing are _____ means of spending.

(a) Prudent
(b) Differentiated
(c) equivalent
(d) Subsidised

Q43. According to Ministry of Social Justice and Empowerment, Government of India, What was the percentage of population living below the poverty line in Chhattisgarh in the year 2004 - 05?

(a) 35.9%
(b) 40.9%
(c) 32%
(d) 49%

Q44. At the Sportstar Aces Awards in 2023, which state received the prize for the best state for sports promotion?

(a) Punjab
(b) Odisha
(c) Madhya Pradesh
(d) Haryana

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Q45. The prominence to Public sector has been declined after what five-year plan?

(a) Eighth plan
(b) Ninth plan
(c) Eleventh plan
(d) Seventh plan

Q46. Which of the following is an objective of the Government Budget?

A) GDP Growth
B) Reallocation of Resources
C) Balanced Regional Growth

(a) Only A
(b) All - A, B and C
(c) Only A and C
(d) Only B

Q47. Which organisation formerly known as the Imperial Council of Agricultural Research and founded on July 16, 1929, is in charge of Agricultural Research and Education in India?

(a) Food Corporation of India (FCI)
(b) Agricultural and Processed Food Products Export Development Authority (APEDA)
(c) National Bank for Agriculture and Rural Development (NABARD)
(d) Indian Council of Agricultural Research (ICAR)

Q48. Which of the following states has the National Academy of Sciences?

(a) Uttarakhand
(b) Telangana
(c) Uttar Pradesh
(d) Karnataka

Q49. Name an oval-shaped range of hills sculpted by glacial flow.

(a) Sandur
(b) Drumlins
(c) Moraines
(d) Esker

Q50. Spot the difference.

(a) Intrinsic value
(b) A legal proposition
(c) Prescribed currency
(d) Guarantee of issuing company

QUANTITATIVE APTITUDE

Q51. Study the given table and answer the question that follows.

The table indicates the number of products sold by four different companies.

Products	Companies			
A	B	C	D	
Top quality	330	230	221	230
Medium quality	340	345	450	320
Low quality	488	550	580	220

Which company produces the maximum low - quality products?

(a) B

(b) A
(c) C
(d) D

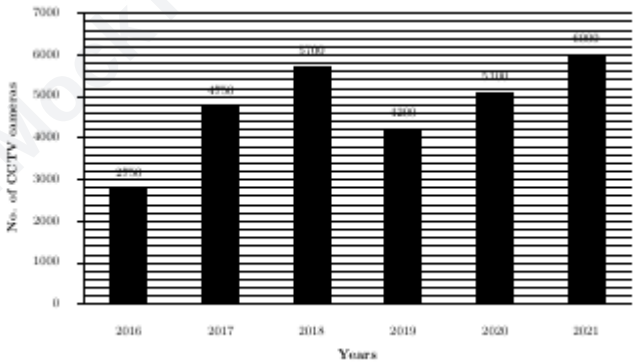
Q52. Find 2 numbers such that their mean proportional is 25 and their third proportional is 25.

(a) 5 and 5
(b) 5 and 25
(c) 25 and 125
(d) 25 and 25

Q53. Ravi borrowed some money at the rate of 5% per annum for the first three years, 8% per annum for the next two years. and 10% per annum for the period beyond 5 years. If he paid a total simple interest of Rs. 12,750 at the end of 7 years, then how much money did he borrow?

(a) Rs. 25,000
(b) Rs. 26,000
(c) Rs. 27,000
(d) Rs. 24,000

Q54. The following bar graph represents the number of CCTV cameras manufactured by a company over six years. Study the graph carefully and answer the question that follows:



What is the ratio of the total number of CCTV cameras manufactured in the years 2016 and 2017 to the total number of CCTV cameras manufactured in the years 2020 and 2021?

(a) 37 : 25
(b) 39 : 25
(c) 25 : 39
(d) 25 : 37

Q55. 4 men and 8 women complete a job in 10 days, and 5 men and 24 women complete the same work in 4 days. In how many days will 1 man and 1 woman complete the same work?

(a) 63 1/3 days
(b) 69 7/9 days
(c) 67 1/3 days
(d) 62 2/9 days

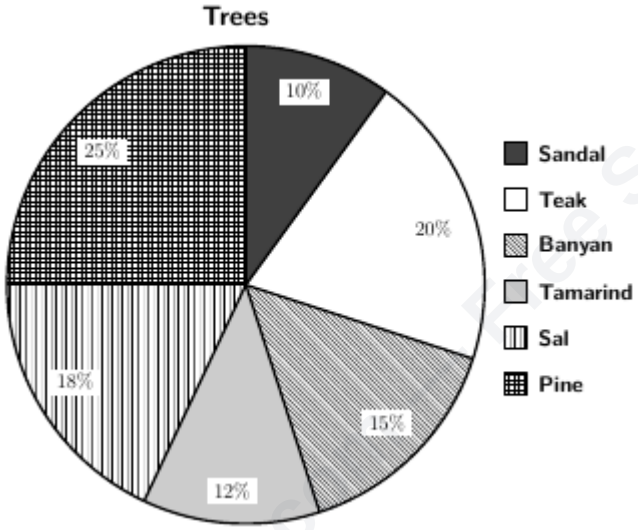
Q56. The given expression is equal to:

1 - (tan² {})/(sec² {})

(a) Sin²Øcos²Ø
(b) Sin²Øcot²Ø
(c) cot²Øcos²Ø
(d) tan²Øcos²Ø

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Q57. The following pie chart shows the percentage distribution of trees in a forest.



If the forest has 7500 pine trees, then find how many trees are there in the forest?

(a) 22,500
(b) 30,000
(c) 27,000
(d) 7,500

Q58. If α sin 45°= β cosec 30°, then α^4/β^4 is:

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

Q59. The marked price of a cooler is Rs. 800 It is sold at a discount of 10%. Due to the festival season, the shopkeeper allowed a further discount of 5%. Find the selling price of the cooler.

(a) Rs. 688
(b) Rs. 684
(c) Rs. 678
(d) Rs. 672

Q60. On parallel tracks, two trains of equal length are moving at speeds of 46 and 36 kilometres per hour in the same direction. In 36 seconds, the quicker train overtakes the slower one. The length of each train is:

(a) 60 metre
(b) 50 metre
(c) 56 metre
(d) 52 metre

Q61. If a + b + c = 15 and ab + bc + ca = 22, then find the value of $a^2+ b^2 + c^2$.

(a) 131
(b) 141
(c) 161
(d) 181

Q62. One angle of an isosceles obtuse triangle is 281/2 °. Find the measure of its obtuse angle in degrees.

(a) 132°
(b) 112°
(c) 121°
(d) 123°

Q63. In Δ ABC and Δ PQR, angle B = angle Q, angle C = angle R and AB = 2PQ, then the two triangles are _____.

(a) congruent as well as similar
(b) neither similar nor congruent
(c) similar but not congruent
(d) congruent but not similar

Q64. The dome of a residential tower is in the form of a hemisphere with a radius of 560 cm. Find the cost of painting it at the rate of Rs. 25 per m^2. (Take π 22/7)

(a) Rs. 4,928
(b) Rs. 4,982
(c) Rs. 4,298
(d) Rs. 4,289

Q65. If the angles P, Q and R of Δ PQR satisfy the relation 2R - P = Q - R, then find the measure of angle R

(a) 45°
(b) 60°
(c) 50°
(d) 55°

Q66. Find the distance (in cm) between the centres of two circles having radii of 32 cm and 24 cm, respectively, if the length of a direct common tangent to the two circles is given as 24 √7 cm.

(a) 60
(b) 65
(c) 64
(d) 63

Q67. Find the value of $\cot^2 B - \text{cosec}^2 B$ for $0 < B < 90°$.

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

Q68. What will be the present value of Rs. 13,230 due two years hence, when the interest is compounded at the rate of 5% per annum?

(a) Rs. 13,000
(b) Rs. 10,500
(c) Rs. 11,500
(d) Rs. 12,000

Q69. A tradesman marks his goods at such a price that after allowing a discount of 31%, he makes a profit of 15%. What is the marked price of an article whose cost price is Rs. 3,420?

(a) Rs. 5,700
(b) Rs. 5,200
(c) Rs. 5,475
(d) Rs. 5,550

Q70. A man invests Rs. 44,000 in some shares in the ratio 1 : 4 : 5 which pay dividends of 10%, 15% and 25% on his investment for one year, respectively. His total dividend income is:

(a) Rs. 7,850
(b) Rs. 8,580
(c) Rs. 7,970
(d) Rs. 8,510

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Q71. The value of 2 3/5 ÷ [2 1/3 ÷{4 1/3-(2 1/2+2/3)}] is equal to :

(a) 1 3/10
(b) 2 7/10
(c) 2 3/7
(d) 1 3/7

Q72. An item is sold for Rs. 2,744, and the seller earns 12% profit. What should be the selling price (in Rs.) to earn only 5% profit?

(a) Rs. 2,572.50
(b) Rs. 2,725.50
(c) Rs. 2,527.50
(d) Rs. 2,275.50

Q73. Simplify the following expression.

{[(x - 5) (x -1)] - [(9x - 5) (9x - 1)]} ÷ 16x

(a) 2x (5x - 3)
(b) -(5x - 3)
(c) x (5x - 3)
(d) -6x (5x - 3)

Q74. Aman decided to cover a distance of 12 km in 78 minutes. He decided to cover the initial two - thirds of the distance at 10 km/h and the remaining at some different speed. Find the speed for the last one - third of the distance.

(a) 7.8 km/h
(b) 8 km/h
(c) 8.4 km/h
(d) 9 km/h

Q75. If x + 1/x = 2, then find the value of x^(1823) + 1/(x^(1929))

(a) 2
(b) 1
(c) 0
(d) -1

GENERAL AWARENESS

Q76. Direction: Select the most appropriate meaning of the given idiom.

Cutting corners

(a) To take the long way around
(b) To do something quickly or cheaply, often at the expense of quality or safety
(c) To follow the rules strictly
(d) To be honest and fair

Q77. Direction: Parts of the following sentence have been given as options. Select the option that contains an error.

He was that angry that he slammed the book on the table.

(a) that he slammed the book
(b) that angry
(c) He was
(d) on the table

Q78. Direction: Select the most appropriate idiom for the given situation.

Shayam was accused of bribery, but he submitted proofs for his innocence.

(a) Buying the pig in a poke
(b) Cast pearls before they swine
(c) Chapter and verse

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(d) Beating about the bush

Q79. Direction: Select the most appropriate synonym of the given word.

Requirement

(a) Essential
(b) Serious
(c) Vague
(d) Importance

Q80. Direction: Select the INCORRECTLY spelt word.

(a) Mischievous
(b) Monologe
(c) Maintenance
(d) Millionaire

Q81. Direction: Select the most appropriate synonym of the given word.

Callous

(a) Inordinate
(b) Compassionate
(c) Insensitive
(d) Unshackle

Q82. Direction: Select the most appropriate option that can substitute the underlined segment in the given sentence.

Sujata has not and can never in the good books of her principal, as she lacks honesty.

(a) has not been and can never be
(b) has not been and can never been
(c) has not be and can never be
(d) has not be and can never been

Q83. Direction: Select the option with the correct spelling that can replace the underlined word in the given sentence.

The old building was damolished to make way for a new building.

(a) demolished
(b) demoleished
(c) demonlished
(d) demolaished

Q84. Direction: Select the option that can be used as a one - word substitute for the given group of words.

A lover of mankind

(a) Misanthrope
(b) Philanthropist
(c) Narcissist
(d) Lexicographer

Q85. Direction: Select the most appropriate option that can substitute the underlined words in the given sentence.

The integration of cutting - edge technologies into the healthcare industry have the prospect of revolutionising the way medical professionals provide patient care.

(a) were the potential
(b) have the potential
(c) has the prospect
(d) will have potential

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Q86. Direction: Select the option that expresses the given sentence in active voice.

The tiger was killed on an unfortunate day by a hostile hunter.

(a) A hostile hunter had killed the tiger on an unfortunate day.
(b) A hostile hunter kills the tiger on an unfortunate day.
(c) The tiger is killed by a hostile hunter on an unfortunate day.
(d) A hostile hunter killed the tiger on an unfortunate day.

Q87. Direction: Select the option that correctly expresses the following sentence in passive voice.

Are you delivering the pizza?

(a) Has the pizza delivered by you?
(b) Were the pizza being delivered by you?
(c) Will you deliver the pizza?
(d) Is the pizza being delivered by you?

Q88. Direction: Select the most appropriate ANTONYM of the underlined word.

Our economies and societies as a whole need to become resilient to climate impacts.

(a) intricate
(b) lint
(c) lapse
(d) weak

Q89. Direction: Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct order to form a meaningful sentence.

A. Between renunciation of the social world
B. The first point to note
C. And asceticism
D. Is the intimate link

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

Q90. Direction: Select the most appropriate synonym of the given word.

Deterioration

(a) Retrogression
(b) Demonstration
(c) Malfunction
(d) Ramification

Q91. Direction: Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct order to form a meaningful sentence.

A. The fact that all members of the family were exposed
B. The waste of human resources and
C. To each other’s capricious minds had a debasing effect
D. On the vitality of society as a whole

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

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Q92. Direction: The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Laisha should holding / a meeting in the / Prem Auditorium / tomorrow evening.

(a) Laisha should holding
(b) Prem Auditorium
(c) a meeting in the
(d) tomorrow evening

Q93. Direction: Choose the correct meaning of the underlined word in the given sentence.

The government is planning a new policy to help the immigrants coming from the neighbouring country.

(a) Someone who leaves one country to settle in another
(b) Someone who goes to visit a new country for a short time
(c) Someone who travels for work
(d) Someone who travels to space

Q94. Direction: Select the most appropriate ANTONYM of the underlined word in the given sentence.

On the flight, I was in the company of an extremely chivalrous man.

(a) Noble
(b) Degraded
(c) Virtuous
(d) Courteous

Q95. Direction: Select the most appropriate synonym of the given word.

Objection

(a) Moan
(b) Disapproval
(c) Counter
(d) Sanction

Directions

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

Today, I want to talk to you about a very simple matter, that is, simple conversations. When we learn to speak, ____ (1) __ come words, then phrases, and then scripts. You would agree that the larger the bundles of words we __ (2) ___, the less we have to worry about combining them into sensible __ (3) __. Also the less we have to fret over syntax or __ (4) __. Do you think you choose the words? Do you pre-rehearse every time you go out? __ (5) ____ what happens when you walk into a fast-food restaurant. My dear, how do you react in those real life situations?

Q96. Select the most appropriate option to fill in blank no. 1.

(a) finally
(b) hence
(c) then
(d) first

Q97. Select the most appropriate option to fill in blank no. 2.

(a) ask around
(b) bail out
(c) look after
(d) carry around

Q98. Select the most appropriate option to fill in blank no. 3.

(a) executions
(b) traits
(c) expressions

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(d) criticism

Q99. Select the most appropriate option to fill in blank no. 4.

(a) dictates
(b) hyperbole
(c) exaggeration
(d) grammar

Q100. Select the most appropriate option to fill in blank no. 5.

(a) Supplicate
(b) Dramatise
(c) Formerly display
(d) Consider

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) HJN

Here, we use the table given below:

Logic: '3' and '2' are added to the positional value of the first and second alphabet respectively.
Checking the given options:
(1) HJN →
(2) LOQ →
(3) PSU →
(4) MPR →
Here, 'HJN' is different from the others.
Hence, the correct answer is "Option (1)".

Q2. Answer: (a) OJN

Here, we use the table given below:

Logic: '3' is added to the positional value of each alphabet.
AKM is related to DNP →
BTS is related to EWV →
Similarly, 'LGK' will be related to:
Here, 'LGK' is related to 'OJN'.
Hence, the correct answer is "Option (1)".

Q3. Answer: (a) Q is the son of S.

Preparing the family tree diagram by using the following symbols:

As per the given information:

A is				
Symbol	•	•	×	÷
Means	Son	Wife	Brother	Mother
of B				

Given expression: 'P - Q × R + S ÷ T'

P is the wife of Q, Q is the brother of R, R is the son of S and S is the mother of T.

Checking the given options:

(1) Q is the son of S → True

(2) S is the mother of P → False

(3) P is the daughter of T → False

(4) T is the son of S → False

Hence, the correct answer is "Option (1)".

Q4. Answer: (c) 6 - 135 - 21

Logic: Second no. = [(First no. + Third no.) × 5]

Given:

5 - 70 - 9 →

=> [(5 + 9) × 5]

=> (14 × 5) = 70

8 - 95 - 11 →

=> [(8 + 11) × 5]

=> (19 × 5) = 95

Checking the given options:

(1) 12 - 144 - 15 →

=> [(12 + 15) × 5]

=> (27 × 5) = 135

(2) 17 - 135 - 21 →

=> [(17 + 21) × 5]

=> (38 × 5) = 190

(3) 6 - 135 - 21 →

=> [(6 + 21) × 5]

=> (27 × 5) = 135

(4) 4 - 28- 79 →

=> [(79 + 4) × 5]

=> (83 × 5) = 415

Here, '6 - 135 - 21' is similar to the given sets of numbers.

Hence, the correct answer is "Option (3)".

Q5. Answer: (a) Two

Given: NERVOUS

Arranging in alphabetical order:

NERVOUS → ENORSUV

The letter 'R' is fourth from the left and the letter 'U' is second from the right.

Here, two letters 'S' and 'T' come between the letters 'R' and 'U'.

Hence, the correct answer is "Option (1)".

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Q6. Answer: (b) 11, 117

Logic: Second no. = [(First no.)² - 4]

Given:

9, 77 →

=> [(9)² - 4]

=> (81 - 4) = 77

16, 252 →

=> [(16)2 - 4]

=> (256 - 4) = 252

Checking the given options:

(1) 12, 132 →

=> [(12)2 - 4]

=> (144 - 4) = 140

(2) 11, 117 →

=> [(11)2 - 4]

=> (121 - 4) = 117

(3) 15, 125 →

=> [(15)2 - 4]

=> (225 - 4) = 221

(4) 7, 54 →

=> [(7)2 - 4]

=> (49 - 4) = 45

Here, '11, 117' is similar to the given sets of numbers.

Hence, the correct answer is "Option (2)".

Q7. Answer: (b) 9876

Given:

11, 12, 26, 81, 328, 1645,?

The logic followed in the given series is:

Here, the missing term is '9876'.

Hence, the correct answer is "Option (2)".

Q8. Answer: (c) [figure]

The logic followed in the given figure series is:

From Figure (1) to (2):

The left arrow is stable and the right arrow rotates 90º in the clockwise direction.

From Figure (2) to (3):

Both the arrows rotate 90º in the clockwise direction.

From Figure (3) to (4):

The left arrow is stable and the right arrow rotates 90º in the clockwise direction.

From Figure (4) to Answer Figure:

Both the arrows rotate 90º in the clockwise direction.

Hence, the correct answer is "Option (3)".

Q9. Answer: (d) tuut

Given:

_utt _ tt _ ttu _

Checking the given options:

1. uutt

uut / tut / ttt / tut

2. tutu

tut / tut / ttt / tuu

3. ttuu

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tut / ttt / tut / tuu
4. tuut
tut / tut / tut / tut
Here, the series is completed.
Hence, the correct answer is "Option (4)".

Q10. Answer: (b) [figure]

The mirror image of the given figure is:
Hence, the correct answer is "Option (2)".

Q11. Answer: (b) 1

As per the given information:
Here, the code for 'L' is '1'.
Hence, the correct answer is "Option (2)".

Q12. Answer: (d) 168

Here, we use the table given below:
As per the given information:

Symbol	Means
A	÷
B	×
C	•
D	•

Given:
=> 11 B 42 A 3 C 41 D 27
Putting the sign as per the table:
=> 11 × 42 ÷ 3 + 41 - 27
Apply BODMAS rule:
=> 11 × 42 ÷ 3 + 41 - 27
=> 11 × 14 + 41 - 27
=> 154 + 41 - 27
=> 195 - 27 = 168
=> '11 × 42 ÷ 3 + 41 - 27 = 168'
Hence, the correct answer is "Option (4)".

Q13. Answer: (a) LNM

Here, we use the table given below:

Given:
XZY, UWV, RTS, OQP, ?
Logic: '3' is subtracted from the positional value of each alphabet.
Here, the missing term is 'LNM'.
Hence, the correct answer is "Option (1)".

Q14. Answer: (b) GS 25

Here, we use the table given below:

Given:
CO 29, EQ 27, ?, IU 23, KW 21
Logic: '2' is added to the positional value of each alphabet and '2' is subtracted from the number.
Here, the missing term is 'GS 25'.
Hence, the correct answer is "Option (2)".

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Q15. Answer: (d) Son's daughter

Preparing the family tree diagram by using the following symbols:

As per the given information:

A is				
Symbol	•	•	@	×
Means	Daughter	Father	Wife	Son
of B				

Given expression: 'B + R × M - P'

B is the daughter of R, R is the son of M and M is the father of P.

Here, B is the son's daughter of M.

Hence, the correct answer is "Option (4)".

Q16. Answer: (c) 32 : 95

Logic: Second no. = [(First no. × 3) + 2]

Given:

11 : 35 →

=> [(11 × 3) + 2]

=> (33 + 2) = 35

13 : 41 →

=> [(13 × 3) + 2]

=> (39 + 2) = 41

Checking the given options:

(1) 19 : 59 →

=> [(19 × 3) + 2]

=> (57 + 2) = 59

(2) 23 : 71 →

=> [(23 × 3) + 2]

=> (69 + 2) = 71

(3) 32 : 95 →

=> [(32 × 3) - 1]

=> (96 - 1) = 95

(4) 16 : 50 →

=> [(16 × 3) + 2]

=> (48 + 2) = 50

Here, '32 : 95' is different from the rest.

Hence, the correct answer is "Option (3)".

Q17. Answer: (c) 77

Here, we use the table given below:

As per the given information:

Symbol	Means
A	÷
B	×
C	•
D	•

Given:

=> 3 B 27 D 5 C 7 A 7

Putting the sign as per the table:

=> 3 × 27 - 5 + 7 ÷ 7

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Apply BODMAS rule:
=> 3 × 27 - 5 + 7 ÷ 7
=> 3 × 27 - 5 + 1
=> 81 - 5 + 1
=> 82 - 5 = 77
=> '3 × 27 - 5 + 7 ÷ 7 = 77'
Hence, the correct answer is "Option (3)".

Q18. Answer: (d) 98

Given:
83, ?, 92, 107, 101, 116
The logic followed in the given series is:

Here, the missing term is '98'.
Hence, the correct answer is "Option (4)".

Q19. Answer: (b) 11

The number of triangles in the given figure is:
Here, the number of triangles is '11'.
Hence, the correct answer is "Option (2)".

Q20. Answer: (b) GWIRKWZ

Here, we use the table given below:

Logic: '6' and '9' are added to the positional value of the given set of letters alternatively.
'CHASE is coded as 'IQGBK' →
'WHALE' is coded as 'CQGUK' →
Similarly, 'ANCIENT' will be coded as:
Here, 'ANCIENT' is coded as 'GWIRKWZ'.
Hence, the correct answer is "Option (2)".

Q21. Answer: (a) 13 - 144

Logic: Second no. = [(First no. - 1)² - 1]
Checking the given options:
(1) 13 - 144 →
=> [(13 - 1)²]
=> (12)² = 144
(2) 9 - 63 →
=> [(9 - 1)² - 1]
=> [(8)² - 1]
=> (64 - 1) = 63
(3) 8 - 48 →
=> [(8 - 1)2 - 1]
=> [(7)2 - 1]
=> (49 - 1) = 48
(4) 11 - 99 →
=> [(11 - 1)2 - 1]
=> [(10)2 - 1]
=> (100 - 1) = 99
Here, '13 - 144' is different from the rest.
Hence, the correct answer is "Option (1)".

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Q22. Answer: (c) All conclusions I, II and III follow

Statements :

All flags are symbols.

All symbols are prides.

Some prides are bright.

The Venn diagram as per the given statements:

Conclusions :

(I) All flags are prides. → Follow (Because all flags are symbols and all symbols are pride so that all flags are pride is definitely true)

(II) Some flags are bright is a possibility. → Follow (There is no direct relation between flags and bright so it can be possible but not definitely true)

(III) Some symbols are bright is a possibility. → Follow (There is no direct relation between symbols and bright so it can be possible but not definitely true)

Hence, the correct answer is "All conclusions I, II and III follow".

Q23. Answer: (a) ADFG

Here, we use the table given below:

Logic: '3' is subtracted from the positional value of each alphabet.

JMOP is related to GJLM →

EHJK is related to BEGH →

Similarly, 'DGIJ' will be related to:

Here, 'DGIJ' is related to 'ADFG'.

Hence, the correct answer is "Option (1)".

Q24. Answer: (b) [figure]

The mirror image of the given figure is:

Hence, the correct answer is "Option (2)".

Q25. Answer: (a) Tuesday

Given:

Yesterday = Thursday

Today = Friday

73 days ago from today = (73 ÷ 7) = 3 (Thursday, Wednesday, Tuesday)

73 days ago was 'Tuesday'.

Hence, the correct answer is "Option (1)".

Q26. Answer: (a) Bokhar Chu

The correct answer is Bokhar Chu.

Key Points

• Bokhar Chu:-

• It is the origin of river Indus.

• Bokhar Chu is a small stream that originates from the Sino-Indian border and merges with the Karakoram range in Tibet.

• Indus river:-

• The Indus river is one of the longest rivers in Asia, and it originates in the Tibetan plateau.

• The river flows through China, India, and Pakistan before emptying into the Arabian Sea.

• The Indus river basin is home to over 300 million people and is the source of irrigation for agriculture in the region.

• The river has several tributaries, including the Jhelum, Chenab, Ravi, Beas, and Sutlej rivers.

Additional Information

• Gangotri Glacier:-

• It is the origin of river Ganges and is located in Uttarakhand, India.

• Chemayungdung Glacier:-

• It is the origin of river Brahmaputra and is located in Tibet.

• Zemu Glacier:-

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• It is the origin of river Teesta and is located in Sikkim, India.

Q27. Answer: (c) Rabindra Atibudhi

The correct answer is Rabindra Atibudhi.

Key Points

• Rabindra Atibudhi:-

• He was awarded the Sangeet Natak Akademi Award 2020 for contribution to Odissi dance.

• He is an Indian dancer who specializes in the Odissi dance form.

• Sangeet Natak Akademi Award:-

• It is a prestigious national-level award given to artists who have made a significant contribution to their respective fields.

Additional Information

• Brajendra Kumar Pattnaik:-

• He is also a well-known Odissi dancer who has received several awards for his contributions to the art form.

• Balkar Sidhu:-

• He is a Punjabi singer.

• Pasumarthy Vithal:-

• He is a Telugu actor, neither of whom are known for their contributions to Odissi dance.

Q28. Answer: (d) [Ar]3d^(10)4s¹

The correct answer is [Ar]3d104s1.

Key Points

• Copper (Cu):-

• It is a transition metal with atomic number 29.

• The correct electronic configuration of Cu is [Ar]3d104s1.

• The electronic configuration of Cu can be determined by filling electrons in the increasing order of energy levels and orbitals.

• Cu has a unique electronic configuration due to the presence of a completely filled d-orbital, which gives it stability and makes it less reactive..

Q29. Answer: (a) Yushang

Solution:

The correct answer is option 1 - Youshang.

Key Points

• Youshang is the main festival celebrated in Manipur.

• It is a harvest festival and is celebrated in October.

• The festival is also known as Ningol Chakouba and is celebrated to strengthen the bond between brothers and sisters.

• During the festival, sisters invite their brothers to their homes and prepare traditional dishes for them.

Additional Information

• Manipur is a state in Northeast India, bordered by Nagaland to the north, Mizoram to the south, and Assam to the west.

• Manipur is known for its rich culture and traditions, and is also called the "Jewel of India".

• Youshang is one of the most important festivals celebrated in Manipur and is a major tourist attraction.

• The festival is celebrated with great enthusiasm and includes various cultural programs and sports events.

Q30. Answer: (d) Is described as 'novel feature of the Constitution'

The correct answer is Is described as 'novel feature of the Constitution'.

Key Points

• Directive Principles of State Policy:-

• These are guidelines for the government to ensure social and economic democracy in the country.

• It is described as 'novel feature of the Constitution'

• They are enumerated in Part IV of the Indian Constitution, consisting of Articles 36 to 51.

• These principles are not enforceable by any court, but the government is expected to implement them through legislation and policies.

• The Directive Principles of State Policy are based on the principles of welfare state and social justice.

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Q31. Answer: (d) Gas

The correct answer is Gas.

Key Points

• Gas:-

• The state of matter that exhibits behaviour uniformity is a gas.

• A gas is a state of matter that has no fixed shape or volume and fills the entire container uniformly.

Additional Information

• Snow:-

• It is a form of solid state of matter and exhibits a crystalline structure but not uniformity of behaviour.

• Solid:-

• A solid is a state of matter that has a definite shape and volume and its particles are tightly packed together.

• Liquid:-

• A liquid is a state of matter that has a definite volume but no fixed shape and its particles are loosely packed together.

Q32. Answer: (c) 70

The correct answer is 70.

Key Points

• Pasteurisation:-

• It is a process of heating milk to a specific temperature for a certain period of time to kill harmful microorganisms, such as bacteria, viruses, and molds.

• The temperature at which milk is heated during pasteurisation varies depending on the method used. In the high-temperature short-time (HTST) method, milk is heated to 72undefinedC (161undefinedF) for 15-30 seconds to kill most bacteria. In the ultra-high-temperature (UHT) method, milk is heated to 135undefinedC (275undefinedF) for a few seconds to kill all microorganisms.

Q33. Answer: (a) Tamil Nadu

The correct answer is Tamil Nadu.

Key Points

• Online Gaming and Regulation of Online Games Bill 2022:-

• The state whose governor approved the Prohibition of Online Gaming and Regulation of Online Games Bill 2022 is Tamil Nadu.

• The bill aims to ban online games that involve betting, wagering, or gambling in any form.

• The bill also proposes to establish a regulatory body to oversee online gaming and ensure compliance with the law.

• The decision to pass the bill was taken after concerns were raised about the negative impact of online gaming on youth and vulnerable sections of society.

Additional Information

• Andhra Pradesh:

• The state government issued an ordinance in September 2020 to ban online gaming and betting, citing concerns about the rise in gambling addiction and related crimes.

• Gujarat:

• The state government passed a law in 2017 banning online gaming and gambling, including skill-based games such as poker and rummy.

• Punjab:

• The state government has not taken any specific action to ban online gaming, but there have been reports of police crackdowns on illegal gambling activities, including online betting.

Q34. Answer: (a) British

The correct answer is British.

Key Points

• Equality before law:-

• The concept of 'equality before law' in the Indian constitution is borrowed from the British constitution.

• The principle of equality before law means that everyone, regardless of their status, wealth, religion, or caste, is equal before the law and subject to the same laws and penalties.

Additional Information

• Canadian constitution:-

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• The Canadian constitution has its own unique provisions on equality, including the Charter of Rights and Freedoms, which guarantees equal protection and benefit of the law without discrimination based on race, national or ethnic origin, colour, religion, sex, age, or mental or physical disability.

• US constitution:-

• The US constitution also has provisions on equality, including the Fourteenth Amendment, which guarantees equal protection of the laws to all citizens and prohibits discrimination based on race, color, or national origin.

• Irish constitution:-

• The Irish constitution also has provisions on equality, including the principle of equal treatment under the law and the prohibition of discrimination based on age, disability, gender, race, or sexual orientation.

Q35. Answer: (a) difference between gross fiscal deficit and interest payments

The correct answer is difference between gross fiscal deficit and interest payments.

Key Points

• Gross primary deficit:-

• It refers to the excess of government's current spending over its current revenue, excluding interest payments on past borrowings.

• Gross fiscal deficit refers to the excess of government's total spending over its total revenue, including interest payments on past borrowings.

Additional Information

• Net borrowings:-

• It refer to the total amount of money borrowed by the government minus the amount repaid.

• Net capital receipts:-

• It refer to the government's capital revenue minus its capital expenditure.

• Revenue deficit:-

• It refers to the excess of government's revenue expenditure over its revenue receipts.

• Capital expenditure:-

• It refers to the government's spending on long-term assets such as infrastructure, while revenue expenditure refers to its spending on day-to-day operations.

Q36. Answer: (c) Unnati Hooda

The correct answer is Unnati Hooda.

Key Points

• Unnati Hooda:-

• She is an Indian badminton player who won the silver medal in the u-17 women's singles at Badminton Asia Junior Championship 2022 held in Jakarta, Indonesia.

Additional Information

• Amar Verma:-

• He is an Indian male badminton player who plays in the men's singles category.

• Aryan Shah:-

• He is an Indian male badminton player who plays in the men's doubles category.

• Abhishek Kiran:-

• He is an Indian male badminton player who plays in the mixed doubles category.

Q37. Answer: (c) Waihind

The correct answer is Waihind.

Key Points

• Waihind:-

• It was the capital of the Hindu Shahi kingdom, which existed from the 7th to the 11th century in the region of present-day Afghanistan and Pakistan.

• The kingdom was founded by the Turkic Shahi dynasty, who were originally from Central Asia.

• Hindu Shahi rulers:-

• They were patrons of art, literature, and Buddhism, and they maintained diplomatic and trade relations with neighboring kingdoms and empires, such as the Abbasid Caliphate and the Tang Empire.

Additional Information

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• Srinagar:-

• It is a city in the Indian state of Jammu and Kashmir, which has a rich history of Hindu, Buddhist, and Islamic influences.

• Lahore:-

• It is a city in present-day Pakistan, which has been a center of culture, politics, and commerce for centuries.

• Multan:-

• It is a city in present-day Pakistan, which has been a hub of trade and religion since ancient times.

Q38. Answer: (b) Teejan Bai

The correct answer is Teejan Bai.

Key Points

• Teejan Bai:-

• She is a renowned Pandavani folk singer.

• Teejan Bai was awarded the Padma Bhushan in 2003, which is the third-highest civilian award in India.

Additional Information

• Pandavani:-

• It is a traditional folk art form from Chhattisgarh, Madhya Pradesh, and Odisha, which involves singing and storytelling based on the epic Mahabharata.

• Sulakshana Pandit:-

• She is a playback singer and actor who has worked in Hindi and Marathi films.

• Ila Arun:-

• She is a folk and pop singer who has sung in various languages, including Hindi, Rajasthani, and Bhojpuri.

• Mamta Chandrakar:-

• She is a Chhattisgarhi folk singer who is known for her soulful renditions of traditional songs.

Q39. Answer: (c) Ravi Kumar Dahiya and Mirabai Chanu

The correct answer is Ravi Kumar Dahiya and Mirabai Chanu.

Key Points

• Mirabai Chanu:-

• Mirabai Chanu is an Indian weightlifter who has won several medals in international competitions including the Commonwealth Games and the World Championships.

• She won the Silver medal in the women's 49 kg weightlifting event at the Tokyo Olympics 2020.

• Ravi Kumar Dahiya:-

• Ravi Kumar Dahiya is an Indian wrestler who won the Silver medal at the Tokyo Olympics 2020 in the men's freestyle 57 kg wrestling event.

• He had also won a Bronze medal at the World Championships in 2019.

• He won the Silver medal in the men's freestyle 57 kg wrestling event at the Tokyo Olympics 2020.

Additional Information

• Sushil Kumar:-

• He is an Indian wrestler who has won multiple medals at the Olympics, Commonwealth Games, and Asian Games. However, he was not a part of the Indian contingent at the Tokyo Olympics 2020.

• PV Sindhu:-

• She is an Indian badminton player who won the Silver medal at the Rio Olympics 2016 and the Bronze medal at the Tokyo Olympics 2020.

• PV Sindhu won the Bronze medal in the women's singles badminton event at the Tokyo Olympics 2020.

• Sushil Kumar:-

• He did not participate in the Tokyo Olympics 2020 as he was facing criminal charges and was also suspended by the Wrestling Federation of India.

Q40. Answer: (d) Lahore

The correct answer is Lahore.

Key Points

• Lahore session:-

• The resolution declaring Poorna Swaraj was passed in the Lahore session of the Indian National Congress.

• The Lahore session was held in December 1929.

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• The resolution was introduced by Jawaharlal Nehru and seconded by Sardar Vallabhbhai Patel.

• The resolution demanded complete independence from British rule and the establishment of a sovereign republic.

• The Lahore session is also famous for the display of the Indian tricolour flag, which was adopted as the national flag of India in 1947.

Additional Information

• Calcutta session:-

• The Calcutta session of the Indian National Congress was held in 1906 and is famous for the announcement of the Swadeshi movement.

• Bombay session:-

• The Bombay session of the Indian National Congress was held in 1885, which marked the beginning of the Indian National Congress.

• Madras session:-

• The Madras session of the Indian National Congress was held in 1908 and is famous for the adoption of the resolution on Swaraj.

Q41. Answer: (c) Both a and b

The correct answer is Both a and b.

Key Points

• Manipuri classical dance :-

• It originated in the Indian state of Manipur and is known for its graceful and fluid movements.

• Manipuri dance has its roots in the ancient Sanskrit texts and the local folk traditions of Manipur.

• It is important to note that Manipuri classical dance has been recognized as one of the eight classical dance forms of India by the Sangeet Natak Akademi.

Additional Information

• Lai Haraoba:-

• It is a traditional ritualistic dance performed during the festival of Yaoshang and is considered to be one of the earliest forms of Manipuri dance.

• Ras:-

• It is a devotional dance that depicts the love between Lord Krishna and Radha.

• Sankirtana:-

• It is a form of devotional singing and dancing.

• Thang-Ta:-

• It is a martial arts form that combines dance and combat techniques.

Q42. Answer: (c) equivalent

The correct answer is equivalent.

Key Points

• David Ricardo:-

• He is an economist, believed that during a high deficit situation, taxation and borrowing are equivalent means of spending.

• This means that when a government faces a high budget deficit, it can either increase taxes or borrow money to finance its spending, as both options have the same effect on the economy.

• Ricardo argued that in such a situation, it is better to borrow money rather than increase taxes, as higher taxes can discourage economic activity and lead to a contraction in the economy.

• However, borrowing too much can also have negative consequences, such as higher interest rates and inflation, which can harm the economy in the long run.

• Therefore, Ricardo's theory suggests that governments should use a balanced approach, using a mix of taxation and borrowing to manage their budget deficits.

Additional Information

• Prudent:-

• It means careful and cautious. While taxation and borrowing can be seen as prudent means of spending in certain situations, Ricardo's theory argues that they are equivalent means of spending during a high deficit situation.

• Differentiated:-

• It means distinguished or varied. This option does not apply to the context of Ricardo's theory.

• Subsidised:-

• It means supported or funded. This option does not apply to the context of Ricardo's theory.

Q43. Answer: (b) 40.9%

The correct answer is 40.9%.

Key Points

• Ministry of Social Justice and Empowerment:-

• It is a department of the Indian government that is responsible for the welfare of disadvantaged and marginalized groups in society, including persons with disabilities, senior citizens, and victims of drug abuse.

• 40.9% of the population in Chhattisgarh was living below the poverty line in 2004-05, according to the Ministry of Social Justice and Empowerment, Government of India.

• This indicates that there was a significant proportion of people in Chhattisgarh who were struggling with poverty at that time.

Q44. Answer: (b) Odisha

The correct answer is Odisha.

Key Points

• Sportstar Aces Awards:-

• It is an annual event that honours Indian athletes and sports personalities.

• The award for the best state for sports promotion recognises the efforts of a state government in promoting sports and developing sports infrastructure.

• Odisha has been making significant investments in sports infrastructure and promoting various sports, which led to it receiving the prize for the best state for sports promotion in 2023.

Q45. Answer: (b) Ninth plan

The correct answer is Ninth plan.

Key Points

• The ninth five-year plan was launched by the united front government in 1997.

• It was focused on "growth with social justice".

• It aimed to depend predominantly on the private sector, Indian as well as foreign direct investment(FDI).

• Private sector partnership in economic activities to be increased.

• The prominence of the Public sector has declined due to an increase in the private sector.

• But in the social sectors like education, Health and infrastructure private sector participation is likely to be limited.

• It assigned priority to agriculture & rural development.

• Employment generation and eradication of poverty were also important targets for this plan.

• 6.5% was the targeted growth rate for this five-year plan but we failed to achieve it and got just 5.4%.

Additional Information Planning in India

• After independence, India chose the concept of economic planning to develop the economy.

• The concept of Economic planning was taken from USSR(Soviet Russia).

• A planning commission was established in march 1950.

• The first five-year plan was launched in 1951 with the goal of the re-establishment of the economy.

• The last five-year plan was from 2012 to 2017.

• The Planning commission was dissolved in August 2014.

• The NITI(National institution for transforming India)Aayog was established in January 2015.

• Now NITI Aayog is the think tank of the Indian economy.

Five year Plan	Duration
1st Five-year plan	1951-56
2nd Five-year plan	1956-61
3rd five-year plan	1961-66
4th five-year plan	1969-74
5th five-year plan	1974-78
6th five-year plan	1980-85
7th five-year plan	1985-90

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8th five-year plan	1992-97
9th five-year plan	1997-2002
10 five-year plan	2002-07
11th five-year plan	2007-12
12 th five-year plan	2012-17

Q46. Answer: (b) All - A, B and C

The correct answer is All- A, B and C.

Key Points

• Reallocation of resources:-

• It refers to the government's ability to distribute resources in a way that benefits the economy and society as a whole.

• Reallocation of resources is also an important objective as it allows the government to allocate resources to areas that need it the most, such as education, healthcare, and infrastructure.

• Balanced regional growth:-

• It refers to the government's efforts to ensure that economic growth is distributed evenly across all regions of the country.

• Balanced regional growth is important as it ensures that economic growth is distributed evenly across all regions of the country, reducing regional disparities and promoting overall economic development.

Additional Information

• GDP growth:-

• It is an important objective of the government budget as it reflects the overall health of the economy and its ability to create jobs and improve the standard of living for citizens.

Q47. Answer: (d) Indian Council of Agricultural Research (ICAR)

The correct answer is Indian Council of Agricultural Research (ICAR).

Key Points

• Indian Council of Agricultural Research:-

• ICAR is the organisation formerly known as the Imperial Council of Agricultural Research and founded on July 16, 1929.

• ICAR is responsible for the planning, coordination and promotion of agricultural research and education in India.

• It operates through a network of institutes and research centres across the country, working on various aspects of agriculture, including crop improvement, animal sciences, fisheries, natural resource management, and agricultural engineering.

Additional Information

• Food Corporation of India:-

• FCI is responsible for the procurement and distribution of food grains across the country.

• Agricultural and Processed Food Products Export Development Authority:-

• APEDA is responsible for the promotion and development of the export of agricultural and processed food products from India.

• National Bank for Agriculture and Rural Development:

• NABARD is responsible for providing credit and other support services to farmers and rural development activities in India.

Q48. Answer: (c) Uttar Pradesh

The correct answer is Uttar Pradesh.

Key Points

• National Academy of Sciences:-

• The National Academy of Sciences (India) is located in Prayagraj, Uttar Pradesh.

• The National Academy of Sciences is a premier scientific organization in India, established in 1930.

• It is an autonomous institution that aims to promote science and its application for the benefit of society.

• The academy comprises distinguished scientists and engineers from various fields of science and technology.

Q49. Answer: (b) Drumlins

The correct asnwer is Drumlins.

Key Points

• Drumlins:-

• These are oval-shaped hills that are formed by the movement of glaciers.

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• These hills are elongated in the direction of the ice flow and have a steep upstream side and a gentle downstream slope.

• Drumlins are usually found in groups and are often associated with other glacial landforms such as moraines and eskers.

• They are most commonly found in areas that were covered by ice sheets during the last ice age.

Additional Information

• Sandur:-

• It is a type of plain that is formed by glacial meltwater and sediment deposition. It is characterized by a flat surface and a braided river system.

• Moraines:-

• These are ridges of glacial till that are deposited along the edges of glaciers or at their terminus. They can be either lateral or terminal moraines depending on their location.

• Eskers:-

• These are long, winding ridges of sand and gravel that are deposited by meltwater streams that flow beneath glaciers. They are usually found in areas that were covered by ice sheets during the last ice age.

Q50. Answer: (a) Intrinsic value

The correct answer is Intrinsic value.

Key Points

• Intrinsic value is a concept that refers to the inherent, true value of an asset, independent of its market value.

• It's often used in investing to determine whether a stock is under or overvalued by comparing its intrinsic value to its current market price.

• The calculation of intrinsic value can involve fundamental analysis of the company's financial health, including earnings, dividends, and growth rates.

• Unlike other options such as a legal proposition, prescribed currency, or guarantee of issuing company, intrinsic value is a financial metric rather than a legal or currency-related term.

Additional Information

Investment Term	Description
Market Value	The current price at which an asset or service can be bought or sold.
Fundamental Analysis	A method of measuring a security's intrinsic value by examining related economic and financial factors.
Dividend	A portion of a company's earnings distributed to shareholders.
Growth Rate	The amount by which a company's earnings are expected to grow, often used in intrinsic value calculations.
Value Investing	An investment strategy that involves picking stocks that appear to be trading for less than their intrinsic or book value.

Q51. Answer: (c) C

Given:

The company A produces 488 low-quality products.

The company B produces 550 low-quality products.

The company C produces 580 low-quality products.

The company D produces 220 low-quality products.

So the company produces the maximum low - quality products is C

Q52. Answer: (d) 25 and 25

Formula used:

If a, b and c are in proportion then we can say $b^2 = ac$

Calculation:

Among the given options the mean proportional of 25 and 25 is

=> $\sqrt{25} \times 25 = 25$

The third proportional of 25 and 25 is

=> $25 \times 25 / 25 = 25$

Therefore The correct option is 4

Q53. Answer: (a) Rs. 25,000

Given:

Total simple interest = Rs. 12,750, Time = 7 years.

5% per annum for the first three years, 8% per annum for two years. and 10% per annum for the period beyond 5 years.

Concept used:

Simple interest = P × R × T / 100 [P = principal, R = rate of interest, T = time]

Calculation:

P = Principal

As per the question,

12,750 = (P × 3 × 5) / 100 + (P × 2 × 8) / 100 + (P × 2 × 10) / 100

=> 12,750 = 51P / 100

=> P = Rs 25000

Therefore The correct option is 1

Q54. Answer: (d) 25 : 37

Calculation:

The cameras manufactured in the years 2016 and 2017 = 2750 + 4750 = 7500

The cameras manufactured in the years 2020 and 2021 = 5100 + 6000 = 11100

The ratio

7500 : 11100

25 : 37

Therefore Option 4 is the correct answer.

Q55. Answer: (d) 62 2/9 days

Given:

4 men and 8 women take 10 days

5 men and 24 women take 4 days

Formula used:

Total work = Efficiency × Number of days

Calculation:

According to the question,

(4M + 8W) × 10 = (5M + 24W) × 4

=> 40M + 80W = 20M + 96W

=> 20M = 16W

=> M/W = 4/5

Now the total work = 10 (4M + 8W)

=> Total work = 10 × (4 × 4 + 8 × 5)

=> Total work = 10 × (16 + 40)

=> Total work = 560 units

Time required by 1 man and 1 woman to complete the work

T (4 + 5) = 560

=> T = 560/9

=> T = 62(2/9) days

Therefore In 62(2/9) days, 1 man and 1 woman will complete the same work.

Q56. Answer: (b) $Sin^2Øcot^2Ø$

Given:

1 - (tan² {})/(sec² {})

Concept used:

cot2Ø = cos2Ø/Sin2Ø

Calculation:

1 - (tan² {})/(sec² {})
=> (sec²Ø - tan ²Ø) / sec²Ø
=> 1 / sec² Ø = cos²Ø
Among the given options,
Sin2Øcot2Ø = Sin2Ø × cos2Ø/Sin2Ø
=> cos2Ø
Therefore The correct option is 2

Q57. Answer: (b) 30,000

Calculation:
Value of 25% = 7500
So value of 100% = 7500 × 4
=> 30000
Therefore The correct option is 2

Q58. Answer: (d) 4³

Given:
α sin 45°= β cosec 30°
Calculalation:
α sin 45°= β cosec 30°
=> α / β = 2 × √2 / 1
=> α4/β^4 = (2 × √2)^4
=> α4/β4 = 4³
Therefore The correct option is 4

Q59. Answer: (b) Rs. 684

Given:
The marked price =Rs. 800
Discount = 10%. The shopkeeper allowed a further discount of 5%
Concept used:
Discount is calculated on market price.
Calculation:
The selling price will be,
800 × 90/100 × 95/100
= Rs 684
Therefore The correct option is 2

Q60. Answer: (b) 50 metre

Given:
Speed of the trains are
In 36 seconds, the quicker train overtakes the slower one.
Concept used:
Relative speed for the same direction = Difference of their speed
Calculation:
The relative speed of two trains is,
(46 - 36) × 5 /18 = 25/9 m/s
So total relative distance covered in 36 seconds
36 × 25/9 = 100 m
The length of each train is 100 / 2 = 50m
Therefore The correct option is 2

Q61. Answer: (d) 181

Given:
a + b + c = 15 and ab + bc + ca = 22

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Formula used:

(a + b + c)2 = a2 + b2 + c2 + 2(ab + bc + ca)

Calculation:

$(a + b + c)^2 = a2 + b2 + c2 + 2(ab + bc + ca)$

$\Rightarrow 15^2 = a2 + b2 + c2. + 2 \times 22$

$\Rightarrow a2 + b2 + c2 = 225 - 44$

$\Rightarrow 181$

Therefore The correct option is 4

Q62. Answer: (d) 123°

Given:

One angle of an isosceles obtuse triangle is 281/2 °.

Concept used:

In an isosceles obtuse triangle, two angles are equal.

Calculation:

The obtuse triangle is,

$\Rightarrow 180° - (28.5 \times 2)$

$\Rightarrow 180° - 57° = 123°$

Therefore The correct option is 4

Q63. Answer: (c) similar but not congruent

Given:

In Δ ABC and Δ PQR, angle B = angle Q, angle C = angle R and AB = 2PQ,

Calculation:

Among the following options,

These two triangles are similar.

So, AB = PQ

But here AB = 2PQ

So, they are not congruent.

Therefore The correct option is 3

Q64. Answer: (a) Rs. 4,928

Given:

The dome of with a radius of 560 cm.

Rate = Rs. 25 per m2.

Concept used:

Curved surface Area of the hemisphere = $2 \pi r^2$

Calculation:

The area of the hemisphere is,

$\Rightarrow 2 \pi \times 5.6 \times 5.6$

The cost of paining is

$\Rightarrow 2 \pi \times 5.6 \times 5.6 \times 25$

= Rs. 4,928

Therefore The correct option is 1

Q65. Answer: (a) 45°

Given:

2R - P = Q - R

Concept used:

The sum of the angles of a triangle is 180°

Calculation:

As per the question,

2R - P = Q - R

=> 3R = P+Q
As per the formula,
P+Q+R = 180°
=> R + 3R = 180°
=> 4R = 180°
=> R = 45°
Therefore The correct option is 1

Q66. Answer: (c) 64

Given:
The radius are 32 cm and 24 cm, respectively,
The length of a direct common tangent = 24 √7 cm.
Formula used:
Direct common tangent = √ (distance between the two centers2 - (r1 - r2)2
Calculation:
Distance between the two centers is = d cm
As per the formula,
24 √7 = √ (d2 - (32 - 24)2.
=> 24 ×√7 = √(d2 - 64)
=>24 ×√7 × 24 ×√7 = (d2 - 64)
=> d = √4096
=> d = 64 cm
Therefore The correct option is 3

Q67. Answer: (c) -1

Concept used:
cosec2 B - cot2 B = 1
Calculation:
As we know,
cosec2 B - cot2 B = 1
=> cot2 B - cosec2 B = -1
Therefore The correct option is 3

Q68. Answer: (d) Rs. 12,000

Given:
Rs. 13,230 due two years hence, when the interest is compounded at the rate of 5% per annum
Formula used:
In compound interest,
Amount = Principal × (1 + r / 100)n
Calculation:
Let, P is the principal
As per the question,
13230 = P × (1 + 5 / 100)2.
=> 13230 = P × (21/20)2.
=> P = Rs 12000
Therefore The correct option is 4

Q69. Answer: (a) Rs. 5,700

Given:
Discount = 31%, profit = 15%.
cost price is Rs. 3,420
Formula used:
Market price = (100+profit) / (100 - discount) × cost price

Calculation:

As per the question,

The market price will be,

=> (100 + 15 / 100 - 31) × 3420

=> Rs. 5700

Therefore The correct option is 1

Q70. Answer: (b) Rs. 8,580

Given:

A man invests Rs. 44,000.

The ratio 1 : 4 : 5 which pay dividends of 10%, 15% and 25% on his investment for one year, respectively.

Calculation:

The money he receives from 10% interest is,

=> 44000 × 1/(1+4+5) × 10/100 = 440

=> 44000 × 1/10 × 1/10 = 440

The money he receives from 15% interest is,

=> 44000 × 4/10 × 15/100 = 2640

The money he receives from 25% interest is,

=> 44000 × 5/10 × 25/100 = 5500

Total amount is 5500 + 2640 + 440 = Rs. 8580

Therefore The correct option is 2

Q71. Answer: (a) 1 3/10

Calculation:

2 3/5 ÷ [2 1/3 ÷{4 1/3-(2 1/2+2/3)}]

=> 13/5 ÷ [7/3 ÷ { 13/3 - 19/6}]

=> 13/5 ÷ [7/3 ÷ {7/6}]

=> 13/5 ÷ [7/3 × 6/7]

=> 13/5 × 1/ 2 = 1 3/10

Therefore The correct option is 1

Q72. Answer: (a) Rs. 2,572.50

Given:

An item is sold for Rs. 2,744

Profit = 12%

Concept used:

Cost price = selling price - profit

Calculation:

The cost price of the article is,

=> 2744 × 100/112

=> 2744 × 25/28

= 2450

The selling price to earn 5% profit is

2450 × 105/100

=> 2450 × 21/20

= Rs 2,572.50

Therefore The correct option is 1

Q73. Answer: (b) -(5x - 3)

Calculation:

{[(x - 5) (x -1)] - [(9x - 5) (9x - 1)]} ÷ 16x

=> x^2 - 6x +5 - $81x^2$ + 54x - 5 ÷ 16x

=> ($-80x^2$ + 48x) ÷ 16x

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=> -(5x - 3) = 0

Therefore The correct option is 2

Q74. Answer: (b) 8 km/h

Given:

Aman decided to cover a distance of 12 km in 78 minutes.

He decided to cover 2/3rd of the distance at 10 km/h.

Concept used:

Distance = speed × time

Calculation:

Time taken to cover 1st 12 × 2/3 = 8 km distance

=> 8 × 60/10 = 48 minutes

Remaining time 78 - 48 = 30

Remaining distance 12 - 8 = 4 km

He has to travel 4 km in 30 minutes

So the speed will be 4 × 2 = 8 km/h

Therefore The correct option is 2

Q75. Answer: (a) 2

Given:

x + 1/x = 2

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Calculation:

If, x + 1/x = 2

We can assume that x = 1

So the value of x1823 + 1/(x^(1929)) is

=> 1 + 1 = 2

Therefore The correct option is 1

Q76. Answer: (b) To do something quickly or cheaply, often at the expense of quality or safety

The solution is in Hindi. Read it online.

Q77. Answer: (b) that angry

Here, the erroneous part is "that angry."

Key Points

• The error lies in the part "that angry."

• The sentence uses the phrase 'that angry', which is redundant as 'angry' already expresses the intensity of emotion.

• The correct way to write the sentence would be: "He was so angry that he slammed the book on the table."

• The correct answer is Option 2.

Q78. Answer: (c) Chapter and verse

The solution is in Hindi. Read it online.

Q79. Answer: (a) Essential

The solution is in Hindi. Read it online.

Q80. Answer: (b) Monologe

The solution is in Hindi. Read it online.

Q81. Answer: (c) Insensitive

The solution is in Hindi. Read it online.

Q82. Answer: (a) has not been and can never be

The correct answer is "has not been and can never be."

Key Points

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• The original sentence is in the present tense, but the use of "has not" suggests that it should be in the present perfect tense.
• The correct form of the present perfect tense is "has not been."
• The second half of the sentence also requires the use of "be" to make it grammatically correct.
• "Can never" is the correct phrase to use to convey that something is impossible.
• The correct answer is Option 1.

Correct sentence: Sujata has not been and can never be in the good books of her principal, as she lacks honesty.

Q83. Answer: (a) demolished

The solution is in Hindi. Read it online.

Q84. Answer: (b) Philanthropist

The solution is in Hindi. Read it online.

Q85. Answer: (c) has the prospect

The correct answer is "has the prospect."

Key Points

• The sentence is in the present tense, so the verb should also be in the present tense.
• The error lies in the Subject Verb agreement.
• The subject "integration of cutting - edge technologies" is singular, so we need a singular helping verb "has" with it.
• "Has the prospect" means that there is a possibility or likelihood of something happening in the future, which fits the meaning of the sentence.
• The correct answer is Option 3.

Correct sentence: The integration of cutting - edge technologies into the healthcare industry has the prospect of revolutionising the way medical professionals provide patient care.

Additional Information

• "Were the potential" is incorrect because "were" is past tense and does not match the present tense of the rest of the sentence.
• "Have the potential" is grammatically correct, but "has the prospect" is a better fit in terms of meaning.
• "Will have potential" is incorrect because it changes the meaning of the sentence to suggest that the potential is not currently present, but will be in the future.

Q86. Answer: (d) A hostile hunter killed the tiger on an unfortunate day.

The correct answer is "A hostile hunter killed the tiger on an unfortunate day."

Key Points

• The given sentence is in the Passive Voice. It is in Simple Past Tense.
• As per the given question, we must change it to Active Voice.
• The structure of the given sentence is as follows:
• Subject + V2 + Object. (Active Voice)
• Subject (objective case)+ was/were + V3 + Object (subjective case). (Passive Voice)
• Example:
• Their cousin showed them some rare photographs. (Active Voice)
• They were shown some rare photographs by their cousin. (Passive Voice)
• In the passive voice, the action "killing" is performed by the doer "tiger."
• "Hostile" is the subject and "tiger" is the object in the active voice.
• The correct answer is Option 4.

Correct sentence: A hostile hunter killed the tiger on an unfortunate day.

Q87. Answer: (d) Is the pizza being delivered by you?

The correct answer is "Is the pizza being delivered by you?"

Key Points

• The given sentence is in the Present Continuous Tense and in Active Voice.
• The rule for changing a Present Continuous Tense from Active voice to Passive voice or Passive to Active Voice:
• Interchange the object and subject with each other, i.e. object of the active sentence become the subject of the passive sentence.
• Structure:
• Is/am/are + Subject + v1 + ing+ object? (Active Voice)

• Is/am/are + Object + was/were + being + V3 + by Subject? (Passive Voice)
• Example:
• Was Esha singing a song? (Active Voice)
• Was a song being sung by Esha? (Passive Voice)
• The subject of the given sentence is 'you'.
• The object of the given sentence is 'pizza'.
• The subject will be put in place of the object and the object will be put in place of the subject.
• And 'Is delivering' will be changed into 'is being delivering'.
• "Pizza" is a singular subject, so we must "is" with it.
• The correct answer is option 4.

Correct sentence: Is the pizza being delivered by you?

Q88. Answer: (d) weak

The solution is in Hindi. Read it online.

Q89. Answer: (b) B, D, A, C

The correct answer is "B, D, A, C."

Key Points

• The sentence talks about the intimate link between renunciation of the social world and asceticism.
• The first point to note comes before this discussion. So, the first part must be B.
• Part D introduces an object to the part B. So, D must follow B.
• The next part must be AC, as it provides a connection between renunciation of the social world and asceticism
• The correct answer is Option 2.
• Therefore, the correct order is:

B (the first point to note), D (the intimate link), A (between renunciation of the social world), C (and asceticism).

Q90. Answer: (a) Retrogression

The solution is in Hindi. Read it online.

Q91. Answer: (d) B, A, C, D

The correct answer is "B, A, C, D."

Key Points

• The sentence talks about the negative effects of family members being exposed to each other's capricious minds and the waste of human resources on society.
• The sentence must start with the subject "the waste of human resources", so the first part must be B.
• The next part must be A, as it introduces a relative clause with "that."
• The next part must be CD, as it provides the object for part A.
• The correct answer is option 4.
• Correct sentence:

Waste of human resources and, the fact that all members of the family were exposed, to each other's capricious minds had a debasing effect, on the vitality of society as a whole.

Q92. Answer: (a) Laisha should holding

Here, the erroneous part is "Laisha should holding."

Key Points

• The error lies in the part "Laisha should holding."
• The verb 'should' does not require the -ing form of the verb that follows it.
• Structure: Subject + should + V1 + Object
• Example: We should go home.
• "Holding" should be replaced with the base form of the verb 'hold.'
• The correct answer is Option 1.

Correct sentence: Laisha should hold a meeting in the Prem Auditorium tomorrow evening.

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Q93. Answer: (a) Someone who leaves one country to settle in another

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Q94. Answer: (b) Degraded

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Q95. Answer: (b) Disapproval

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Q96. Answer: (d) first

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Q97. Answer: (d) carry around

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Q98. Answer: (c) expressions

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Q99. Answer: (d) grammar

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Q100. Answer: (d) Consider

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