SSC CHSL Exam 2023 Tier-II Official Paper (Held On: 10 Jan, 2024 Shift 1). (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2023 • 135 questions • 135 minutes • Answer key and solutions

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SECTION I

Q1. Two pipes can fill a cistern separately in 36 minutes and 45 minutes, respectively. A waste pipe can drain off 40 litres per minute. If all the three pipes are opened, the cistern fills in one hour. The capacity (in litres of the cistern) is:

(a) 600
(b) 1200
(c) 300
(d) 400

Q2. A hollow cube is made of paper to have a volume of 512 cubic units. How much paper in square units will be required to make the cube?

(a) 328
(b) 348
(c) 288
(d) 384

Q3. Sohan sells sugar at the cost price but uses false weights thus gaining 28% profit. How many grams of sugar is he giving for 3.2 kg sugar?

(a) 1500
(b) 1900
(c) 2200
(d) 2500

Q4. The difference between a discount of 27% and two successive discounts of 20% and 10% on a certain bill was Rs. 56. Find the amount of the bill.

(a) Rs. 1,866
(b) Rs. 5,500
(c) Rs. 5,600
(d) Rs. 1,120

Q5. The simplified form of the expression $((x^2-9) \times(9\ x^2-1))/((x-1/3) \times(1-x/3)) \times 9/((x+1/3)(1+x/3))$ is _____.

(a) -729
(b) -81
(c) 729
(d) 81

Q6. The shadow of a tower standing on level ground is found to be 40 m longer when the Sun's altitude is 30° than when it was 45°. Find the height (in meters) of the tower.

(a) $10(\sqrt{3} - 1)$
(b) $20(\sqrt{3} - 1)$
(c) $20(\sqrt{3} + 1)$
(d) $10(\sqrt{3} + 1)$

Q7. The average salary of all 40 employees, including 35 non - teaching staff members, of a school is Rs. 4,000. If the average salary of the non - teaching staff members is Rs. 4,200, find the average salary of the remaining staff of the school.

(a) Rs. 3,600
(b) Rs. 2,600
(c) Rs. 2,800
(d) Rs. 2,300

Q8. In triangle XYZ, if XY = 5 cm, XZ = 7 cm and Q is a point on YZ such that XQ bisects angle X, then YQ : QZ is:

(a) 5 : 7
(b) 7 : 12
(c) 7 : 5
(d) 5 : 12

Q9. If a transversal intersects two parallel lines, and the difference between two interior angles on the same side of the transversal is 40°, then find the smallest angle among the interior angles.

(a) 70°
(b) 50°
(c) 40°
(d) 60°

Q10. The ratio of the expenditure to the savings of Richa is 2 : 1. If her income and expenditure increase by 20% and 15%, respectively, then find the percentage increase in her savings.

(a) 35%
(b) 30%
(c) 20%
(d) 25%

Q11. A boat is moving 3 km against the current of the stream in 1 hour and moves 1 km in the direction of the current in 12 minutes. How long will it take the boat to go 6 km in stationary water?

(a) 1 hour and 25 minutes
(b) 1 hour and 15 minutes
(c) 1 hour and 30 minutes
(d) 1 hour and 20 minutes

Q12. The distribution of 100 workmen employed in a factory according to their monthly salary, showed an average salary of Rs. 4,500 per month. If the median salary is found to be Rs. 4,900, find the mode salary.

(a) Rs. 5,600
(b) Rs. 5,500
(c) Rs. 5,700
(d) Rs. 5,800

Q13. The average of the first eight multiples of 6 is:

(a) 24
(b) 27
(c) 30
(d) 25

Q14. Sudarsan and Abraham appear for an interview for two vacancies. The probability of Sudarsan's selection is 1/3 and that of Abraham's selection is 1/5. Find the probability that none of them be selected.

(a) 8/15
(b) 14/15
(c) 1/15
(d) 22/15

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Q15. The age of the father 10 years ago was thrice the age of his son. Ten years hence, the father's age will be twice that of his son. What is the ratio of their present ages?

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

Q16. The ratio of prices of Coffee and Tea is 3 : 4 and the ratio of their quantities consumed by a family is 4 : 7. Find the ratio of expenditures on Coffee and Tea.

(a) 3 : 7
(b) 7 : 3
(c) 7 : 4
(d) 4 : 7

Q17. The base of a right prism is an equilateral triangle with each side measuring 4 cm. If the lateral surface area is 120 cm^2, find the volume (in cm^3) of the prism.

(a) 30 √3
(b) 40 √3
(c) 10 √3
(d) 20 √3

Q18. The runs scored by 11 players in the cricket match are as follows.

7, 16, 121, 51, 101, 81, 1, 16, 9, 11, 16

Calculate the median of the data.

(a) 51
(b) 11
(c) 22
(d) 16

Q19. In how many years will Rs. 2,500 invested at the rate of 16% p.a. simple interest, amount to Rs. 4,100?

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

Q20. A right rectangular box's measurement are 1.6 m long, 90 cm wide, 60 cm in height. Soap cakes of measurement 6 cm × 5 cm × 40 mm are to be packed in the box, so that no space is left. How many cakes can be packed in the box?

(a) 6000
(b) 5600
(c) 6500
(d) 7200

Q21. Rs. 7,786 is divided among A, B and C in such a manner that the ratio of the amount of A to that of B is 3 : 4 and the ratio of the amount of B to that of C is 12 : 13. The amount of money received by B is:

(a) Rs. 7,138
(b) Rs. 2,977
(c) Rs. 2,748
(d) Rs. 5,038

Q22. A man observed the top of an electric pole at angles of elevation of 60° and 30°, respectively, from two different observation points P and Q. If the distance between P and Q is 10 m, find the height of the pole (in m).

(a) 5 √3
(b) 5
(c) 15

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(d) 15 √3

Q23. A sells a watch to B at a profit of 33% and B sells it to C at a loss of 20%. If C pays Rs. 532, then what was the cost price for A?

(a) Rs. 500
(b) Rs. 800
(c) Rs. 400
(d) Rs. 600

Q24. The sum of the ages of a son and father is 52 years; after four years the age of the father will be four times that of the son. What is the present age (in years) of the son?

(a) 10
(b) 9
(c) 8
(d) 12

Q25. Simplify :

(cbrtcbrt343)³ × (cbrtcbrt216)³.

(a) 56
(b) 42
(c) cbrt42
(d) 42³

Q26. The measures of two angles of a triangle are in the ratio 3 : 7. If the sum of these two measures is equal to the measure of the third angle, then find the smallest angle.

(a) 27°
(b) 3°
(c) 9°
(d) 36°

Q27. Find the value of √625 + √(625/100) + √(625/10000) + √(625/1000000).

(a) 27.075
(b) 27.775
(c) 27.75
(d) 27.025

Q28. In an election, a candidate who gets 90% votes is elected by a margin of 800 votes. What is the total number of votes polled?

Note : There are only two candidates contesting the election and assume all the votes were valid.

(a) 1050
(b) 950
(c) 1000
(d) 900

Q29. The compound interest of Rs. 6,000 in two years, if the rate of interest is 2.5% per annum for the first year and 2% per annum for the second year, will be:

(a) Rs. 273
(b) Rs. 135
(c) Rs. 270
(d) Rs. 240

Q30. Find the average of the prime numbers lying between 69 and 92.

(a) 79
(b) 82
(c) 80

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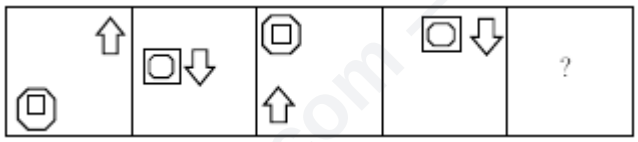
(d) 81

Q31. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

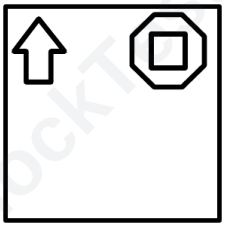
C_EF HNE_ _NEP RN_U WNE_

(a) PAWER
(b) FHOSM
(c) NKMEZ
(d) CAHKL

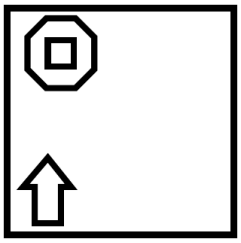
Q32. Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series?



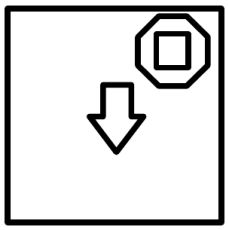
(a)



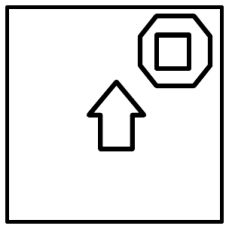
(b)



(c)



(d)



Q33. This question consists of a pair of words which have a certain relationship to each other. Select the pair from the options which has the same relationship as the ones given below:

Bewilder : Confuse, Harmony : Concord

(a) Fierce : Gentle
(b) Ponder : Contemplate

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(c) Docile : Defiant
(d) Timid : Bold

Q34. A statement is followed by two conclusions, numbered I and II. Find out which of the following conclusion(s) is/are true based on the given statements.

Statement : P ≤ L ≥ M ≥ N = U < V < G

Conclusions :

I. P > V

II. G ≤ L

(a) Both conclusions I and II are true
(b) Only conclusion II is true
(c) Only conclusion I is true
(d) Neither conclusion I nor II is true

Q35. How many meaningful four-letter English words can be formed using the second, third, fifth and seventh letters of the word TOURIST (when counted from left to right) using each letter only once in each word.

(a) None
(b) Two
(c) One
(d) More than two

Q36. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements :

All apples are plums.

Some plums are berries.

Some berries are coconuts.

Conclusions :

1. Some berries are plums.

2. All plums are apples.

3. Some coconuts are berries.

(a) Only conclusion 3 follows.
(b) Only conclusion 1 follows.
(c) Only conclusion 2 follows.
(d) Both conclusions 1 and 3 follow.

Q37. 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?

(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 1and 3 is not allowed)

(a) 14 - 126
(b) 31 - 280
(c) 25 - 225
(d) 12 - 108

Q38. What will come in place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged ?

163 ÷ 5 + 147 × 7 − 19 = ?

(a) 819
(b) 817
(c) 816

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(d) 813

Q39. 11 is related to 55 following a certain logic. Following the same logic, 12 is related to 60. To which of the following is 15 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 / 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)

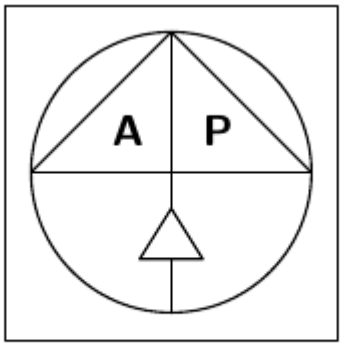
(a) 85
(b) 75
(c) 70
(d) 80

Q40. 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?

(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 1and 3 is not allowed)

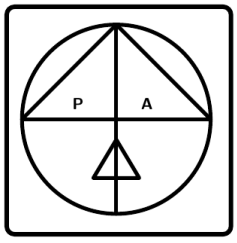
(a) 364 - 182
(b) 438 - 219
(c) 524 - 260
(d) 986 - 493

Q41. If the water source is placed along X - Y, as shown in the given figure, which of the following options will be the water reflection of the given figure?

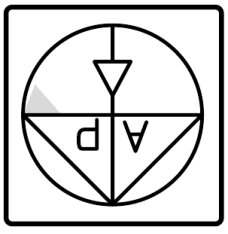




(a)



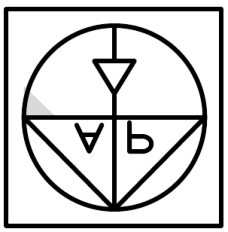
(b)



(c)



(d)



Q42. A statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the following course(s) of action logically follow(s) for pursuing.

Statement : Voltage fluctuation in A's home has damaged many of his new electrical appliances.

Courses of action :

I) A should consult an electrician and install a device to safeguard appliances against fluctuations in voltage.

II) A must replace all the appliances.

(a) Both I and II follow
(b) Only II follows
(c) Only I follows
(d) Neither I nor II follows

Q43. Three of the following four word pairs are alike and thus form a group. Select the word pair that does NOT belong to that group.

(a) Water - bottles
(b) Clothes - wardrobes
(c) Money - wallets
(d) Rice - eat

Q44. All 20 students in a class are standing in a straight line facing north. Neha is 10th from the right end while Nalin is 12th from the left end. How many people stand between Neha and Nalin?

(a) Three
(b) Zero
(c) Two
(d) One

Q45. In a certain code language, 'KENT' is coded as '9^7' and 'BENT' is coded as '~79'. What is the code for 'B' in that code language?

(a) *
(b) 9
(c) ~
(d) ^

Q46. Select the word-pair that best represents a similar relationship to the one expressed in the pairs of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants / vowels in the word.)

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Quench : Satisfy, Nurture : Foster

(a) Yield : Resist

(b) Jealous : Content

(c) Lethargic : Energetic

(d) Ingenious : Clever

Q47. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements :

Some bells are pumps.

All pumps are skates.

All bells are kites.

Conclusions :

1. Some kites are skates.

2. Some skates are bells.

3. Some skates are pumps.

(a) Both conclusions 1 and 3 follow.

(b) Both conclusions 2 and 3 follow.

(c) All conclusions1, 2 and 3 follow.

(d) Both conclusions 1 and 2 follow.

Q48. 82 is related to 41 following a certain logic. Following the same logic, 94 is related to 47. To which of the following is 66 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 / 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)

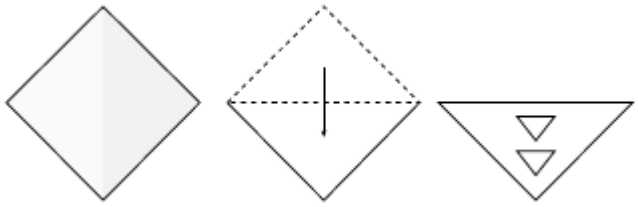
(a) 33

(b) 23

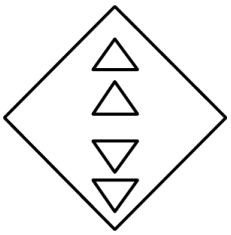
(c) 43

(d) 13

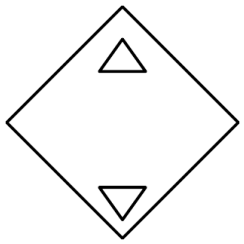
Q49. A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?



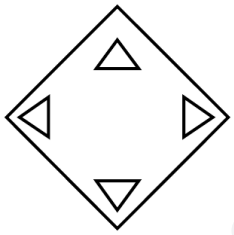
(a)



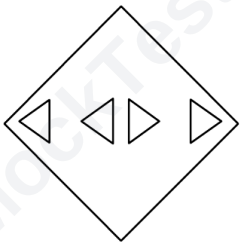
(b)



(c)



(d)



Q50. A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2, and so on, till the topmost floor is numbered 6. E lives on an odd-numbered floor but not on floor number 5. Only one person lives between E and C. D lives immediately above F. B lives on a lower floor than C. A does not live on the topmost floor. Who lives on the topmost floor?

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

Q51. What will come in place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged ?

617 ÷ 3 − 84 + 515 × 5 = ?

(a) 1836
(b) 1838
(c) 1834
(d) 1832

Q52. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

GA_B M_PB SA_B YAB_ _AHB

(a) AWBUY
(b) JAVBE
(c) MFGTY
(d) CHFJK

Q53. 4 is related to 40 following a certain logic. Following the same logic, 12 is related to 120. To which of the following is 15 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 / 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)

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(a) 200
(b) 205
(c) 100
(d) 150

Q54. Read the given statement and inferences 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 inferences can be derived from the statement.

(An inference is something which is not directly stated but can be derived from the given facts/information in the statement.)

Statement :

All mammals are warm - blooded animals.

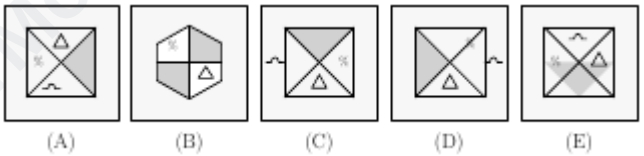
Inferences :

I. Dogs are warm - blooded animals.

II. All warm - blooded creatures are mammals.

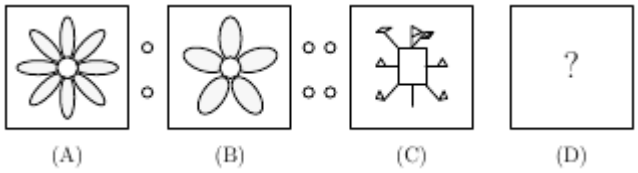
(a) Neither (I) nor (II)
(b) Only (II)
(c) Both (I) and (II)
(d) Only (I)

Q55. Four of the following five figures are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

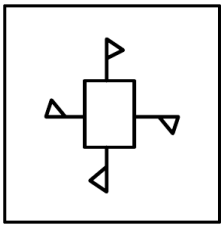


(a) B
(b) D
(c) C
(d) E

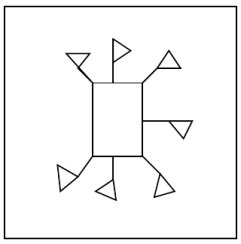
Q56. Figure A is related to Figure B in a certain way. Following the same pattern, Figure C is related to Figure D. Study the pattern and select the figure which should be placed in place of D.



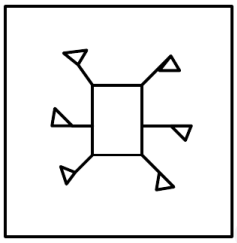
(a)



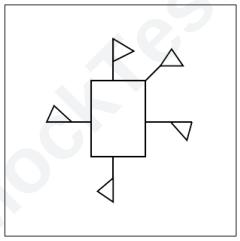
(b)



(c)



(d)



Q57. How many meaningful four - letter English words can be formed using the first, fourth, fifth and sixth letters of the word SAVOUR (when counted from left to right) using each letter only once in each word.

(a) One
(b) More than two
(c) Two
(d) None

Q58. A statement is followed by two conclusions, numbered I and II. Find out which of the following conclusion(s) is/are true based on the given statements.

Statement : T ≥ M < W = P ≥ Q > R ≤ S

Conclusions :

I. P ≤ M

II. Q > T

(a) Neither conclusion I nor II is true
(b) Only conclusion I is true
(c) Only conclusion II is true
(d) Both conclusions I and II are true

Q59. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

CB_W V_SP _NLI HG_B A_XU

(a) XUOFY
(b) XUOEZ
(c) XUOEY
(d) ZUOEZ

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Q60. In a certain code language, '4378' is coded as 'IDOL' and '7832' is coded as 'IDLE'. What is the code for '2' in that code language?

(a) O
(b) L
(c) E
(d) I

SECTION II

Q61. Select the most appropriate synonym of the given word.

Decadence

(a) Decline
(b) Liberate
(c) Dispirited
(d) Flowering

Q62. Select the most appropriate idiom that means the same as the given sentence.

Shyama looks innocent, but in reality, she is cunning.

(a) Fortune favours the brave.
(b) Beauty lies in the eyes of the beholder.
(c) Don't judge a book by its cover.
(d) Don't put all your eggs in one basket.

Q63. Select the option that can be used as a one - word substitute for the given group of words / phrase.

A drug or other substance that induces sleep

(a) Energetic
(b) Reviver
(c) Stimulant
(d) Sedative

Q64. Select the option that expresses the given sentence in reported speech.

He said to the mechanic, "Will you have the car ready by tomorrow morning?"

(a) He asked the mechanic if he would have the car ready by the next morning.
(b) He told the mechanic if he will have the car ready for the next morning.
(c) He asked the mechanic if he will have the car ready by the previous morning.
(d) He said the mechanic whether he would has the car ready by the following morning.

Q65. Select the option that converts the given sentence into the superlative degree.

The river Ganga has some of the purer water on earth.

(a) The river Ganga has some of the most purest water on earth.
(b) The river Ganga has some of the very purest water on earth.
(c) The river Ganga has some of the more purest water on earth.
(d) The river Ganga has some of the purest water on earth.

Q66. Select the option that expresses the given sentence in passive voice.

They built a new house last year.

(a) A new house was being built by them last year.
(b) They had been building a new house last year.
(c) A new house was built by them last year.
(d) A new house is being built by them last year.

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Q67. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options.

While astrology has / a long history / it is generally / considered pseudoscience.

(a) it is generally
(b) a long history
(c) While astrology has
(d) considered pseudoscience

Q68. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

I have three sisters : / Meera is the elder / and Charu is the youngest.

(a) No error
(b) and Charu is the youngest
(c) I have three sisters:
(d) Meera is the elder

Q69. Select the most appropriate option that best expresses the meaning of the proverb in the given sentence.

The salesperson for the project offered a sneak peek of the project as we expressed our interest in the area and amenities.

(a) Getting a preview of something
(b) To try something new
(c) Sending a brief letter
(d) To be in a winning position

Q70. Select the most appropriate option to fill in the blank.

Currently, Mittu and Bittu _____ hard to meet the project deadline.

(a) worked
(b) are working
(c) have worked
(d) were working

Q71. Select the sentence that gives the most appropriate meaning of the idiom 'Keep your chin up'.

(a) The students diligently completed their homework assignments before the deadline.
(b) Despite facing setbacks, she remained positive and determined to achieve her goals.
(c) The hiker enjoyed the breathtaking view from the mountaintop, taking in the natural beauty.
(d) The scientist conducted experiments and gathered data to support his research hypothesis.

Q72. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

A man who has been accused of fraud / in an earlier job, he will never be / welcomed in any other organisation.

(a) No error
(b) welcomed in any other organisation
(c) A man who has been accused of fraud
(d) in an earlier job, he will never be

Q73. Select the most appropriate ANTONYM of the given word.

Denote

(a) Convey
(b) Conclude
(c) Conceal
(d) Convince

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Q74. Select the most appropriate phrasal verb to fill in the blank.

The teacher asked the students to _____ their ideas during the class discussion.

(a) get on
(b) put off
(c) bring up
(d) bring about

Q75. Identify the INCORRECTLY spelt word in the following sentence and select its correct spelling from the given options.

The remoteness of the location made it difficult for the authoreties to reach out to the people.

(a) authorities
(b) locasion
(c) remotness
(d) deficult

Q76. Select the most appropriate option to fill in the blank.

The war _____ badly damaged the country's infrastructure.

(a) has
(b) have
(c) was
(d) is

Q77. Select the option that expresses the given sentence in passive voice.

Perumal has given a challenging assignment to the newly admitted students.

(a) A challenging assignment has been given by Perumal to the newly admitted students.
(b) A challenging assignment will have been given by Perumal to the newly admitted students.
(c) A challenging assignment was given by Perumal to the newly admitted students.
(d) A challenging assignment had been given by Perumal to the newly admitted students.

Q78. Select the most appropriate phrasal verb to fill in the blank.

The teacher asked the students to _____ their essays before the deadline.

(a) land in
(b) put off
(c) hand in
(d) hand up

Q79. Select the option that can be used as a one - word substitute for the given group of words.

A sudden violent event that brings about great loss or destruction

(a) Blockbuster
(b) Farce
(c) Intrigue
(d) Catastrophe

Q80. Select the option that can be used as a one - word substitute for the given group of words.

Someone who has too much admiration for himself or herself

(a) Narcissist
(b) Pantheist
(c) Misogamist
(d) Misanthropist

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

Serene

(a) Chaotic
(b) Calm

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(c) Agitated
(d) Angry

Q82. Select the most appropriate option to fill in the blank.

I did not _____ to university yesterday.

(a) gone
(b) go
(c) went
(d) going

Q83. Select the option that expresses the given sentence in reported speech.

Anil said to Ria, “I know where everything is kept in the kitchen.”

(a) Anil told Ria that he knows where everything was kept in the kitchen.
(b) Anil told Ria that he knew where everything is kept in the kitchen.
(c) Anil asked Ria that he knows where everything was kept in the kitchen.
(d) Anil told Ria that he knew where everything was kept in the kitchen.

Q84. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options.

It is a well - known fact / that the Monarchy is / not the best form / of governance.

(a) that the Monarchy is
(b) of governance.
(c) not the best form
(d) It is a well-known fact

Q85. Select the INCORRECTLY spelt word.

(a) Maxim
(b) Profligate
(c) Lisentious
(d) Quandary

Q86. Select the option that expresses the given sentence in passive voice.

The teacher will explain the lesson tomorrow.

(a) The lesson is being explained by the teacher tomorrow.
(b) The lesson was explained by the teacher tomorrow.
(c) The lesson will be explained by the teacher tomorrow.
(d) The lesson will have been explained by the teacher tomorrow

Q87. Select the correct spelling of the underlined word in the given sentence.

He made a sureptitiuos phone call while his boss was out of the room.

(a) surreptitous
(b) sureptitious
(c) surreptitious
(d) sarreptitious

Q88. Select the most appropriate tense form to fill in the blank.

Tania _____ to the canteen.

(a) were gone
(b) were going
(c) was going
(d) had going

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.

He looks out of the window at the (1) _____ snow, then turns and takes his wife in his arms, feeling grateful to be here even as he wonders what he is going to do with his life in strictly practical terms. For years, he had (2) _____ himself to do one thing, and he did it well, but he doesn't know whether he wants to keep doing it for the rest of his life, for that matter, whether anyone will let him. He is still worrying when they go to bed.

They've been learning to get by with less, and they'll keep learning. It seems to him as if they're taking a course in loss lately. And as he feels himself falling asleep he has an (3) _____ he believes is important, which he hopes he will remember in the morning, although it is one of those thoughts that seldom (4) _____ translation to the language of daylight hours.

Q89. Select the most appropriate option to fill in blank no. 1.

(a) falling
(b) dashing
(c) praying
(d) blazing

Q90. Select the most appropriate option to fill in blank no. 2.

(a) trained
(b) mesmerised
(c) penalised
(d) abstained

Q91. Select the most appropriate option to fill in blank no. 3.

(a) insight
(b) implication
(c) insurance
(d) instance

Q92. Select the most appropriate option to fill in blank no. 4.

(a) proliferate
(b) survive
(c) install
(d) fabricate

Directions

Read the given passage and answer the questions that follow.

Leadership does not exist without followership. A leader has to be accepted by the group which the former is supposed to lead. To gain acceptability, the leader should cause an emotive impact on the group members. The strength of character exhibited by leaders makes them dear to their followers. A leader is one who effectively inspires followers to achieve worthwhile things. What character of the leader motivates the followers? It is not pomp and show, neither flattery nor sanctioning more incentives. Pomp and show creates a sense of awe and the leader is deified rather as emulated. Flattery is unrealistic and cannot serve as a long-term motivational tool. A leader’s style should be one that can be emulated by all irrespective of cadre, class and calibre. Simplicity in one’s day - to - day conduct is the only thing that can be adopted by all.

Q93. Which of the following desired qualities of a leader is mentioned in the passage?

(a) Simplicity
(b) Deified
(c) Pomp and show
(d) Flattery

Q94. Select the most appropriate synonym of the given word.

Emulate

(a) Relax
(b) Imitate
(c) Suppose
(d) Exhibit

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Q95. According to the passage, why should the leader generate an emotive impact?

(a) To exhibit the character of his followers
(b) To mould the character of a leader
(c) To gain acceptance by the members of the group
(d) To acquire social knowledge

Q96. Select the best summary of the passage?

(a) A leader effectively inspires and guides his followers to achieve desired goals.
(b) A leader's style cannot serve as a long - term motivation among the group.
(c) Motivation is the innate quality that enables an individual to be intellectually strong.
(d) Administrative knowledge is essential for the followers to get success.

Directions

Read the given passage and answer the questions that follow.

In 1888, an Atlantic contributor made the case for a "science of names."

"Parents are strangely careless and unscientific in giving names to children," the contributor complained. "They forget that not only from the social point of view it is very advantageous to have one's name remembered, but that from the business point of view notoriety is capital, and must be obtained by persistent and ingenious advertising." Indeed, the contributor argued, a good name will give a child "a start in life equivalent to a cash capital of at least fifteen thousand dollars." One way to ensure this head start? "Be guided by euphonic quality only."

Although not all of this contributor's guidance can or should still apply today, the importance of a name to a child's identity has stayed front of mind for many parents. A name can determine whether a child fits in or stands out - and many parents differ on which of those outcomes is preferable.

Q97. According to the contributor, the parents are strangely careless and unscientific in giving names to children because _____.

(a) they do it without considering the business point of view
(b) they do it without discussing it with their relatives and friends
(c) they do it without considering the actual meaning of the name
(d) they do it without considering the latter's interest in it

Q98. Select the most appropriate word in the passage which means 'pleasing and sweet sound'.

(a) Identity
(b) Advantageous
(c) Outcomes
(d) Euphonic

Q99. What will be given to a child if he gets a good name?

(a) A good bank balance
(b) A perfect address
(c) professional attitude
(d) A headstart in life

Q100. What is the tone of the speaker in the passage?

(a) Humorous
(b) Sarcastic
(c) Persuasive
(d) Melancholic

Q101. According to the Census of India-2011, which of the following options represents a group of the most urbanised union territories in India?

(a) Chandigarh and Lakshadweep
(b) Delhi and Chandigarh
(c) Puducherry and Delhi
(d) Lakshadweep and Puducherry

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Q102. Which is NOT a Directive Principle to be followed by the State for policy - making?

(a) Tender age of children is not abused
(b) Equal pay for equal work
(c) The operation of economic system results for concentration of wealth
(d) The ownership of material resources of the community are for common good

Q103. A 100 mL solution having 0.01 moles of NaOH dissolved in it. The pH of the solution is:

(a) 13
(b) 1
(c) 10
(d) 2

Q104. In the energy flow diagram of an ecosystem, the flow of energy comes to herbivores from:

(a) sunlight
(b) carnivores
(c) top carnivores
(d) producers

Q105. In September 2022, the Daspara village in _____– which is solely dependent on agriculture and fishery – was converted to a nature - based lifestyle and livelihood while reducing the use of chemical fertilisers, becoming India's first modified bio village.

(a) West Bengal
(b) Tripura
(c) Odisha
(d) Andhra Pradesh

Q106. A bus moving on a straight road at a speed of 10 km / h increases its speed to 70 km / h in 2 minutes. Find its average acceleration.

(a) 1 km / minute^2
(b) 0.5 km / minute2
(c) 2 km / minute2
(d) 30 km / minute2

Q107. Severe undernutrition due to the deficiency of food and energy is termed as _____.

(a) kwashiorkor
(b) wasting
(c) marasmus
(d) dementia

Q108. Gases, especially oxygen and carbon dioxide, are essential for the survival of aquatic animals and plants. The gases from the atmosphere reach the aquatic animals and plants through:

(a) condensation
(b) evaporation
(c) sublimation
(d) diffusion

Q109. What is mainly responsible for the increase in the greenhouse effect?

(a) Increasing SO2 levels
(b) Ozone layer hole
(c) Chlorofluorocarbon content is rising
(d) Increasing CO2 concentration

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Q110. Which of the following statements about transfer payments are correct?

1) Transfer payments are made by the government to households.

2) Pension, scholarship etc. are not a part of the transfer payments.

3) Transfer payments are often used as a means of redistributing income within a society.

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

Q111. Identify whether the following statements are correct or incorrect.

Statement 1 : Khasi and Jaintia hills receive the highest rainfall, which exceeds 1000 cm.

Statement 2 : Ladakh and most western Rajasthan receive rainfall above 150 cm.

(a) Both the statements are incorrect
(b) Both the statements are correct
(c) Only statement 2 is correct
(d) Only statement 1 is correct

Q112. Which of the following statements related to the United Nations Development Program (UNDP) partnership with Deendayal Antyodaya Yojana - National Urban Livelihoods Mission (DAY - NULM) are correct?

1) UNDP and DAY - NULM have entered into a collaborative partnership aimed at empowering women to make well-informed career choices in the field of entrepreneurship.

2) The partnership will provide support for women looking to start and expand their own enterprises, particularly in sectors such as care economy, digital economy, electric mobility, waste management, food packaging and more.

3) Focused on fostering entrepreneurship development and accelerating enterprise growth, the five - year project, extendable beyond 2027, will cover ten cities in the initial phase.

4) UNDP will contribute to the initiative by developing community business mentors called ‘Biz - Sakhis’ in selected project locations.

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

Q113. Which of the following statements are INCORRECT?

1) The Original Jurisdiction establishes the Supreme Court as an umpire in all disputes regarding federal matters.

2) The Supreme Court can give special orders in the form of writs.

3) Article 129 of the Indian Constitution mention about appointment of acting Chief Justice of India.

4) Every Judge of the Supreme Court of India shall be appointed by the Prime Minister of India.

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

Q114. Who issued guidelines for the microfinance institutions in India?

(a) Finance Ministry
(b) NABARD
(c) State Government
(d) Reserve Bank of India

Q115. Which of the following statement(s) is / are correct about Prarthana Samaj?

A. Prarthana Samaj was a movement for religious and social reforms.

B. Prarthana Samaj was founded in 1867 by the Dadoba Pandurang and his brother Atmaram Pandurang.

(a) Neither A nor B
(b) Only A

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(c) Both A and B
(d) Only B

Q116. Match the following Acts / Policies with the respective years in which they were put into place.

Acts / Policies	Year		
A.	Pitt's India Act	1.	1784
B.	Permanent Settlement of Bengal	2.	1793
C.	Introduction of the Subsidiary Alliance System	3.	1798
D.	Abolition of Sati	4.	1829

(a) A - 4, B - 3, C - 2, D - 1
(b) A - 2, B - 1, C - 4, D - 3
(c) A - 2, B - 1, C - 3, D - 4
(d) A - 1, B - 2, C - 3, D - 4

Q117. The following sportspersons have created a record in their sports in 2022. Match the sportsperson (list I) with their sport (list II).

List I (Sportsperson)	List II (Sport)		
a)	Manpreet Kaur	i)	Shot put
b)	Avinash Sable	ii)	Athlete
c)	Mirabai Chanu	iii)	Archer
d)	Pooja Jatyan	iv)	Weightlifting

(a) a – ii; b – i; c – iv; d – iii
(b) a – i; b – ii; c – iii; d – iv
(c) a – ii; b – i; c – iii; d – iv
(d) a – i; b – ii; c – iv; d – iii

Q118. Which of the following cities in India faces monsoon rain first?
(a) Bhubaneswar
(b) Kolkata
(c) Thiruvananthapuram
(d) Chennai

Q119. Which organisation in India holds the responsibility for setting the maximum residue limits (MRLs) of pesticides in food materials?
(a) Indian Statistical Institute (ISI)
(b) Food Safety and Standards Authority of India (FSSAI)
(c) Ministry of Food Processing Industries
(d) Food Corporation of India (FCI)

Q120. Which of the following statements regarding cricketer Jasprit Bumrah's record at Edgbaston in 2022 are correct?
1) Indian captain Jasprit Bumrah broke Brian Lara's world record by scoring 32 runs in an over.
2) The world record stayed with Brian Lara for 18 years.
3) Brain Lara had hit South African left - arm spinner Robin Peterson for his record.
4) Jasprit Bumrah created a world record for maximum runs off a single over in Test cricket by hitting Stuart Broad for 35 runs.
(a) 2, 3 and 4
(b) 1, 3 and 4

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(c) 1, 2 and 4
(d) 1, 2 and 3

COMPUTER KNOWLEDGE

Q121. Which among the following is a part of URL (Uniform Resource Locator)?
(a) Server
(b) Port number
(c) Error code
(d) Multiplexer

Q122. What is the purpose of the 'Alignment' options in Microsoft Word?
(a) To insert images and graphics.
(b) To adjust the spacing between lines of text.
(c) To change the font colour of the text.
(d) To control the horizontal or vertical placement of text within margins.

Q123. What is the role of ROM (Read - Only Memory) in a computer system?
(a) Managing network connections.
(b) Storing user - generated files and documents.
(c) Storing the computer's firmware and startup instructions.
(d) Providing temporary storage for running applications.

Q124. What is a 'DDoS attack' in the context of network security ?
(a) An attack that aims to exploit vulnerabilities in software.
(b) An attack that floods a network with excessive traffic to overwhelm and disrupt its operation.
(c) A type of malware that replicates itself and spreads through a network.
(d) A social engineering attack that targets specific individuals.

Q125. What is 'Phishing' in the context of network security?
(a) A type of computer worm that spreads through email attachments.
(b) An attack that floods a network with excessive traffic to disrupt its operation.
(c) A social engineering attack that tricks users into revealing sensitive information.
(d) A type of malware that spreads through infected USB drives.

Q126. What is a workbook in Excel?
(a) A collection of cells with related data
(b) A set of predefined formatting styles
(c) A chart that visualises data
(d) A file containing multiple worksheets

Q127. What is the keyboard shortcut to 'Paste' copied content from the clipboard in most Windows applications?
(a) Ctrl + C
(b) Ctrl + X
(c) Ctrl + Z
(d) Ctrl + V

Q128. What is the main purpose of the 'BCC' field in email composition?
(a) To include multiple main recipients in a single field.
(b) To indicate the importance of the email.
(c) To send copies of the email without revealing the other recipients' addresses.
(d) To attach files to the email.

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Q129. What protocol is commonly used for sending and receiving emails?

(a) SSH (Secure Shell Protocol)
(b) SMTP (Simple Mail Transfer Protocol)
(c) FTP (File Transfer Protocol)
(d) HTTP (Hypertext Transfer Protocol)

Q130. Which of the following is an example of an output device ?

(a) Printer
(b) Microphone
(c) Scanner
(d) Mouse

Q131. What is the purpose of the Arithmetic Logic Unit (ALU) in a Central Processing Unit (CPU)?

(a) It executes program instructions by performing calculations and logical comparisons.
(b) It manages the data flow between the CPU and memory.
(c) It controls the speed of the CPU fan.
(d) It connects the CPU to peripheral devices.

Q132. How can you open an existing document in Microsoft Word 2016?

(a) Press Ctrl + S.
(b) Press Ctrl + P.
(c) Press Ctrl + N.
(d) Press Ctrl + O.

Q133. Which keyboard shortcut opens File Explorer (previously known as Windows Explorer) in Windows 10?

(a) Ctrl + P
(b) Win + E
(c) Ctrl + C
(d) Alt + Tab

Q134. What is the purpose of a search engine on the internet?

(a) To create and edit documents online.
(b) To search and retrieve relevant information from the web.
(c) To provide free software downloads.
(d) To network with people on social media platforms.

Q135. Which networking protocol is used to assign IP addresses dynamically to devices on a network?

(a) FTP (File Transfer Protocol)
(b) HTTP (Hypertext Transfer Protocol)
(c) SMTP (Simple Mail Transfer Protocol)
(d) DHCP (Dynamic Host Configuration Protocol)

ANSWER KEY

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

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81	b	82	b	83	d	84	a	85	c	86	c	87	c	88	c	89	a	90	a
91	a	92	b	93	a	94	b	95	c	96	a	97	a	98	d	99	d	100	c
101	b	102	c	103	a	104	d	105	b	106	b	107	c	108	d	109	d	110	d
111	d	112	b	113	c	114	d	115	c	116	d	117	d	118	c	119	b	120	a
121	b	122	d	123	c	124	b	125	c	126	d	127	d	128	c	129	b	130	a
131	a	132	d	133	b	134	b	135	d										

SOLUTIONS

Q1. Answer: (b) 1200

Given:

Two pipes can fill a cistern separately in 36 minutes and 45 minutes, respectively.

A waste pipe can drain off 40 litres per minute.

If all three pipes are opened, the cistern fills in one hour.

Formula used:

Let the capacity of the cistern be x litres.

Rate of filling by the first pipe = x / 36 litres/minute

Rate of filling by the second pipe = x / 45 litres/minute

Rate of emptying by the waste pipe = 40 litres/minute

Net rate of filling when all three pipes are open = (x / 36) + (x / 45) - 40 litres/minute

Calculation:

The cistern fills in 60 minutes (1 hour), so:

=> (x / 36) + (x / 45) - 40 = x / 60

=> (5x / 180) + (4x / 180) - 40 = x / 60

=> (9x / 180) - 40 = x / 60

=> (1 / 20)x - 40 = x / 60

=> 3x - 2400 = x

=> 3x - x = 2400

=> 2x = 2400

=> x = 1200

Therefore The capacity of the cistern is 1200 litres.

Q2. Answer: (d) 384

Given:

A hollow cube is made of paper to have a volume of 512 cubic units.

Formula used:

Volume of a cube (V) = side^3

Surface area of a cube (A) = 6 × side^2

Calculation:

Given volume, V = 512 cubic units

=> side^3 = 512

=> side = 8 units

Surface area, A = 6 × side^2

=> A = 6 × 8^2

=> A = 6 × 64

=> A = 384 square units

Therefore The correct answer is 384 square units.

Q3. Answer: (d) 2500

Given:

Sohan sells sugar at the cost price but uses false weights thus gaining 28% profit.

Calculation:

Let the actual weight of sugar be W grams.

Since he gains 28% profit, we have:

Selling Price (SP) = Cost Price (CP) + 28% of CP

SP = CP + 0.28 × CP

SP = 1.28 × CP

Therefore, the weight he is giving is reduced by a factor of 1.28

Weight Sohan is giving = 3.2 kg / 1.28

=> Weight Sohan is giving = 3200 grams / 1.28

=> Weight Sohan is giving = 2500 grams

Therefore The correct answer is 2500 grams.

Q4. Answer: (c) Rs. 5,600

Given:

Difference between a discount of 27% and two successive discounts of 20% and 10% = Rs. 56

Calculation:

Let the bill amount be Rs. x.

Single discount of 27%:

Discount = 0.27x

Two successive discounts of 20% and 10%:

Effective discount = 1 - (1 - 0.20) × (1 - 0.10) = 1 - 0.80 × 0.90 = 1 - 0.72 = 0.28x

Difference between the discounts:

0.28x - 0.27x = Rs. 56

0.01x = Rs. 56

x = Rs. 56 / 0.01 = Rs. 5600

Therefore The amount of the bill is Rs. 5600.

Q5. Answer: (a) -729

((x²-9) ×(9 x²-1))/((x-1/3) ×(1-x/3)) × 9/((x+1/3)(1+x/3))

((x-3)(x+3) ×(3x-1) (3x + 1))/(((3x-1)/3) ×((3-x)/3)) × 9/(((3x + 1)/3)((3 + x)/3))

=> ((-1)(x+3) × (3x + 1))/((1/3) ×(1/3)) × frac9~ × ~9(3x + 1)(3 + x)

=> (-9)(x+3) × (3x + 1) × frac81(3x + 1)(3 + x)

=> - 729

Q6. Answer: (c) 20(√3 + 1)

Shortcut Trick

In height and distance problems, the relationship between height (h) and the difference in shadow length (d) for two angles of elevation θ1 and θ2 is given by:

h = d ÷ (cot θ1 − cot θ2)

Here, θ1 = 30°, θ2 = 45°, and d = 40 m.

=> h = 40 ÷ (cot 30° − cot 45°) = 40 ÷ (√3 − 1)

=> h = 40(√3 + 1) ÷ [(√3 − 1)(√3 + 1)] = 40(√3 + 1) ÷ (3 − 1) = 20(√3 + 1)

Therefore The correct answer is 20(√3 + 1) m.

Alternate Method

Given:

Difference in shadow length (CD) = 40 m

Sun's altitude at point C (θ1) = 45°

Sun's altitude at point D (θ2) = 30°

Let the Height of the tower (AB) be h meters.

Calculations:

In right-angled triangle ΔABC:

=> tan 45° = AB ÷ BC

=> 1 = h ÷ BC => BC = h

In right-angled triangle ΔABD:

=> tan 30° = AB ÷ BD

=> 1 ÷ √3 = h ÷ (BC + CD)

=> h + 40 = h√3

=> 40 = h√3 − h

=> 40 = h(√3 − 1)

=> h = 40 ÷ (√3 − 1)

Rationalizing the denominator:

=> h = [40 × (√3 + 1)] ÷ [(√3 − 1) × (√3 + 1)]

=> h = [40(√3 + 1)] ÷ (3 − 1)

=> h = 40(√3 + 1) ÷ 2

=> h = 20(√3 + 1)

Therefore The correct answer is 20(√3 + 1) m.

Additional Information

Trigonometric Ratios for Standard Angles

tan 30° = 1/√3, tan 45° = 1, tan 60° = √3. These are essential for solving Height and Distance problems.

Angle of Elevation

The angle formed by the line of sight with the horizontal when looking up at an object. As the observer moves away from the tower, the angle of elevation decreases.

Distance-Height Relation Formula

For a tower of height h, the distance d between two shadow points with angles α and β is d = h(cot α − cot β), where α < β.

Q7. Answer: (b) Rs. 2,600

Given:

The average salary of all 40 employees, including 35 non-teaching staff members, of a school is Rs. 4,000.

The average salary of the non-teaching staff members is Rs. 4,200.

Formula used:

Average Salary = Total Salary / Number of Employees

Calculation:

Total salary of all employees = 4000 × 40

=> Total salary of all employees = Rs. 160,000

Total salary of non-teaching staff = 4200 × 35

=> Total salary of non-teaching staff = Rs. 147,000

Total salary of remaining staff = Total salary of all employees - Total salary of non-teaching staff

=> Total salary of remaining staff = 160,000 - 147,000

=> Total salary of remaining staff = Rs. 13,000

Number of remaining staff = 40 - 35

=> Number of remaining staff = 5

Average salary of remaining staff = Total salary of remaining staff / Number of remaining staff

=> Average salary of remaining staff = 13,000 / 5

=> Average salary of remaining staff = Rs. 2,600

Therefore The correct answer is Rs. 2,600

Q8. Answer: (a) 5 : 7

Given:

In triangle XYZ, XY = 5 cm, XZ = 7 cm, and Q is a point on YZ such that XQ bisects angle X.

Formula used:

Angle Bisector Theorem: If a point Q lies on the bisector of angle X in triangle XYZ, then YQ : QZ = XY : XZ.

Calculation:

Using Angle Bisector Theorem:

YQ : QZ = XY : XZ

=> YQ : QZ = 5 : 7

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Therefore The correct answer is 5 : 7

Q9. Answer: (a) 70°

Given:

If a transversal intersects two parallel lines, and the difference between two interior angles on the same side of the transversal is 40º, then find the smallest angle among the interior angles.

Formula used:

Let the two interior angles on the same side of the transversal be x and y.

Since the lines are parallel, we know:

x + y = 180º (sum of interior angles on the same side of the transversal)

Given: x - y = 40º

Calculation:

We have the system of equations:

x + y = 180º

x - y = 40º

Adding these equations:

=> (x + y) + (x - y) = 180º + 40º

=> 2x = 220º

=> x = 110º

Substitute x back into x + y = 180º:

=> 110º + y = 180º

=> y = 70º

The smallest angle among the interior angles is 70º.

Therefore The correct answer is 70º.

Q10. Answer: (b) 30%

Given:

The ratio of the expenditure to the savings of Richa is 2:1.

Formula used:

Let expenditure be 2x and savings be x.

Income = Expenditure + Savings

Calculation:

Initial Income = 2x + x = 3x

New Expenditure = 2x × 1.15 = 2.3x

New Income = 3x × 1.20 = 3.6x

New Savings = New Income - New Expenditure

=> New Savings = 3.6x - 2.3x = 1.3x

Initial Savings = x

Percentage increase in savings = (1.3x - x)/x × 100

=> Percentage increase in savings = 0.3x/x × 100

=> Percentage increase in savings = 30%

Therefore The percentage increase in Richa's savings is 30%.

Q11. Answer: (c) 1 hour and 30 minutes

Given:

A boat is moving 3 km against the current of the stream in 1 hour and moves 1 km in the direction of the current in 12 minutes.

Formula used:

Speed of the boat in still water = (1/2) × (Speed against the current + Speed with the current)

Calculations:

Speed against the current = 3 km / 1 hour = 3 km/hr

Speed with the current = 1 km / 12 minutes = 1 km / 0.2 hours = 5 km/hr

Speed of the boat in still water = (1/2) × (3 km/hr + 5 km/hr) = 4 km/hr

Time taken to go 6 km in still water = 6 km / 4 km/hr = 1.5 hours

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1.5 hours = 1 hour and 30 minutes

Therefore The correct answer is 1 hour and 30 minutes.

Q12. Answer: (c) Rs. 5,700

Shortcut Trick

Use the Empirical Formula: Mode = 3 × Median − 2 × Mean.

Plug in the given values: Mean = Rs. 4,500 and Median = Rs. 4,900.

Mode = (3 × 4900) − (2 × 4500)

Mode = 14,700 − 9,000 = 5,700.

Therefore The correct answer is Rs. 5,700.

Alternate Method

Given:

Total workmen (N) = 100

Average (Mean) salary (μ) = Rs. 4,500

Median salary (M) = Rs. 4,900

Formula Used:

In a moderately asymmetrical distribution, the relationship between Mean, Median, and Mode is: Mode = 3 Median − 2 Mean.

Calculations:

=> Mode = 3 × 4900 − 2 × 4500

=> Mode = 14700 − 9000

=> Mode = 5700

Therefore The correct answer is Rs. 5,700.

Additional Information

Symmetrical Distribution

In a perfectly symmetrical distribution (Normal Curve), the Mean, Median, and Mode are all equal: Mean = Median = Mode.

Positive vs Negative Skewness

If Mean > Median > Mode, it is Positively Skewed. If Mode > Median > Mean, it is Negatively Skewed.

Karl Pearson Formula

The empirical relation is specifically accurate for unimodal and moderately skewed distributions.

Q13. Answer: (b) 27

Given:

The first eight multiples of 6 are: 6, 12, 18, 24, 30, 36, 42, 48.

Formula used:

Average of n numbers = (Sum of n numbers) / n

Calculation:

Sum of the first eight multiples of 6 = 6 + 12 + 18 + 24 + 30 + 36 + 42 + 48

=> Sum = 216

=> Average = 216 / 8

=> Average = 27

Therefore The correct answer is 27.

Q14. Answer: (a) 8/15

Shortcut Trick

Probability of Sudarsan not being selected = 1 − 1/3 = 2/3

Probability of Abraham not being selected = 1 − 1/5 = 4/5

Since the events are independent, the required probability is the product of individual non-selection probabilities.

Required Probability = 2/3 × 4/5 = 8/15

Therefore The correct answer is 8/15.

Alternate Method

Given:

Probability of Sudarsan's selection P(S) = 1/3

Probability of Abraham's selection P(A) = 1/5

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Formula Used:

For independent events A and B, P(none selected) = P(A') × P(B'), where P(X') = 1 − P(X).

Calculations:

=> Probability that Sudarsan is not selected P(S') = 1 − 1/3 = 2/3

=> Probability that Abraham is not selected P(A') = 1 − 1/5 = 4/5

=> Probability (None selected) = P(S') × P(A')

=> Required Probability = (2/3) × (4/5)

=> Required Probability = (2 × 4) / (3 × 5) = 8/15

Therefore The correct answer is 8/15.

Additional Information

Independent Events

Two events are independent if the occurrence of one does not affect the occurrence of the other. For such events, P(A and B) = P(A) × P(B).

Complementary Events

The probability of an event not occurring is 1 minus the probability of the event occurring: P(A') = 1 − P(A).

At Least One Selected

The probability that at least one of them is selected is given by 1 − P(None selected). In this case, 1 − 8/15 = 7/15.

Q15. Answer: (b) 7 : 3

Given:

The age of the father 10 years ago was thrice the age of his son. Ten years hence, the father's age will be twice that of his son.

Formula used:

Let the present age of the father be F and the present age of the son be S.

10 years ago: F - 10 = 3(S - 10)

10 years hence: F + 10 = 2(S + 10)

Calculations:

From the first equation:

F - 10 = 3(S - 10)

=> F - 10 = 3S - 30

=> F = 3S - 20

From the second equation:

F + 10 = 2(S + 10)

=> F + 10 = 2S + 20

=> F = 2S + 10

Equating both expressions for F:

3S - 20 = 2S + 10

=> 3S - 2S = 10 + 20

=> S = 30

Substitute S into F = 2S + 10:

F = 2(30) + 10

=> F = 60 + 10

=> F = 70

Therefore, the ratio of their present ages is:

F : S = 70 : 30

=> 7 : 3

Therefore The correct answer is 7 : 3

Q16. Answer: (a) 3 : 7

Shortcut Trick

Expenditure is directly proportional to the product of Price and Quantity.

Expenditure Ratio = (Price Ratio) × (Quantity Ratio)

Ratio = (3 × 4) : (4 × 7)

Ratio = 12 : 28 = 3 : 7
Therefore The correct answer is 3 : 7.
Alternate Method
Given:
Ratio of prices of Coffee and Tea = 3 : 4
Ratio of quantities of Coffee and Tea = 4 : 7
Formula Used:
Total Expenditure = Price per unit × Quantity consumed
Calculations:
=> Let the prices of Coffee and Tea be 3x and 4x respectively.
=> Let the quantities consumed of Coffee and Tea be 4y and 7y respectively.
=> Expenditure on Coffee = Price × Quantity = 3x × 4y = 12xy
=> Expenditure on Tea = Price × Quantity = 4x × 7y = 28xy
=> Required Ratio = (Expenditure on Coffee) / (Expenditure on Tea)
=> Ratio = 12xy / 28xy
=> Ratio = 12 / 28
=> Ratio = 3 / 7
Therefore The correct answer is 3 : 7.
Additional Information
Compound Ratio
When two or more ratios are multiplied together (a/b × c/d), the result is called the Compound Ratio (ac/bd).
Constant Expenditure Rule
If the expenditure remains constant, the Price and Quantity are inversely proportional (Price prop. to 1/Quantity).
Percentage Change in Expenditure
If price increases by a% and consumption increases by b%, the net change in expenditure is (a + b + ab/100)%.

Q17. Answer: (b) 40 √3

Given:
The base of a right prism is an equilateral triangle with each side measuring 4 cm. The lateral surface area is 120 cm^2.
Formula used:
Volume of prism = Base Area × Height
Base Area of equilateral triangle = √3/4 × $side^2$
Lateral Surface Area = Perimeter of base × Height
Calculation:
Perimeter of base = 3 × 4 = 12 cm
Lateral Surface Area = Perimeter of base × Height
120 = 12 × Height
=> Height = 120/12
=> Height = 10 cm
Base Area = √3/4 × 4^2
=> Base Area = √3/4 × 16
=> Base Area = 4 √3 cm^2
Volume = Base Area × Height
=> Volume = 4 √3 × 10
=> Volume = 40 √3 cm^3
Therefore The correct answer is 40 √3 cm3

Q18. Answer: (d) 16

Given:
The runs scored by 11 players in a cricket match are: 7, 16, 121, 51, 101, 81, 1, 16, 9, 11, 16
Formula used:
Median is the middle value in an ordered list of numbers.

If the number of observations (n) is odd, the median is the value at position ((n+1)/2)

Calculation:

First, order the data in ascending order:

1, 7, 9, 11, 16, 16, 16, 51, 81, 101, 121

Number of observations (n) = 11

Position of the median = ((11+1)/2)

=> Position of the median = 6

The value at the 6th position is 16.

Therefore The median of the data is 16.

Q19. Answer: (a) 4

Given:

Principal (P) = Rs. 2,500

Amount (A) = Rs. 4,100

Rate (r) = 16% p.a.

Formula used:

Simple Interest (SI) = P × r × t / 100

Amount (A) = P + SI

Calculations:

According to formula: Amount (A) = P + SI

4100 = 2500 + (2500 × 16 × t / 100)

=> 4100 = 2500 + 400t

=> 4100 - 2500 = 400t

=> 1600 = 400t

=> t = 1600 / 400

=> t = 4 years

Therefore The correct answer is 4 years.

Q20. Answer: (d) 7200

Given:

A right rectangular box's measurements are 1.6 m long, 90 cm wide, and 60 cm in height. Soap cakes have measurements of 6 cm × 5 cm × 40 mm.

Formula used:

Volume of the box = Length × Width × Height

Volume of a soap cake = Length × Width × Height

Number of soap cakes = Volume of the box / Volume of a soap cake

Calculation:

Convert all measurements to cm:

1.6 m = 160 cm

40 mm = 4 cm

Volume of the box = 160 cm × 90 cm × 60 cm

=> Volume of the box = 864000 cm^3

Volume of a soap cake = 6 cm × 5 cm × 4 cm

=> Volume of a soap cake = 120 cm^3

Number of soap cakes = 864000 cm^3 / 120 cm^3

=> Number of soap cakes = 7200

Therefore The number of soap cakes that can be packed in the box is 7200.

Q21. Answer: (c) Rs. 2,748

Given:

Total amount = Rs. 7,786

Ratio of A to B = 3 : 4

Ratio of B to C = 12 : 13

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Formula used:
Combine the ratios to find the individual shares.
Calculation:
Ratio of A to B = 3 : 4
Ratio of B to C = 12 : 13
To combine these ratios, make the common term (B) equal in both ratios:
Ratio of A to B = 3 : 4 (multiply by 3)
=> 9 : 12
Ratio of B to C = 12 : 13
Combined ratio of A : B : C = 9 : 12 : 13
Total parts = 9 + 12 + 13 = 34
Share of B = (Total amount × Share of B) / Total parts
=> (Rs. 7,786 × 12) / 34
=> Rs. 2,748
Therefore The amount of money received by B is Rs. 2,748.

Q22. Answer: (a) 5 √3

Shortcut Trick
For two points on the same side of a tower with angles θ1 and θ2, height h = d ÷ (cotθ2 − cotθ1).
Here, distance d = 10 m, θ1 = 60°, and θ2 = 30°.
=> h = 10 ÷ (cot 30° − cot 60°) = 10 ÷ (√3 − 1/√3) = 10 ÷ (2/√3) = 5√3 m.
Therefore The correct answer is 5√3 m.
Alternate Method
Given: Distance PQ = 10 m, angle P = 60°, angle Q = 30°. Let height of pole be h.
Formula Used: tan θ = Perpendicular / Base
=> In Δ right-angled at pole base (O), OP = h ÷ tan 60° = h/√3.
=> In Δ right-angled at pole base (O), OQ = h ÷ tan 30° = h√3.
=> PQ = OQ − OP (Assuming P and Q on the same side as per official answer logic).
=> 10 = h√3 − h/√3
=> 10 = (3h − h) / √3
=> 10 = 2h / √3
=> h = 5√3 m.
Therefore The correct answer is 5√3 m.
Additional Information
Standard Ratios for 30°-60°-90° Triangle
In a 30°-60°-90° triangle, the sides opposite to the angles are in the ratio 1 : √3 : 2.
Angle of Elevation and Distance
As the observer moves closer to the object, the angle of elevation increases (e.g., from 30° to 60°).
Opposite Side Case
If points were on opposite sides, the distance would be OQ + OP, leading to h = 10√3/4 = 2.5√3 m.

Q23. Answer: (a) Rs. 500

Given:
A sells a watch to B at a profit of 33% and B sells it to C at a loss of 20%. If C pays Rs. 532, then what was the cost price for A?
Formula used:
Cost price for B = Selling price for C ÷ (1 - Loss%)
Cost price for A = Cost price for B ÷ (1 + Profit%)
Calculation:
Cost price for B = Rs. 532 ÷ (1 - 0.20)
=> Cost price for B = Rs. 532 ÷ 0.80
=> Cost price for B = Rs. 665
Cost price for A = Rs. 665 ÷ (1 + 0.33)

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=> Cost price for A = Rs. 665 ÷ 1.33

=> Cost price for A = Rs. 500

Therefore The correct answer is 500.

Q24. Answer: (c) 8

Given:

The sum of the ages of a son and father is 52 years; after four years the age of the father will be four times that of the son.

Formula used:

Let the present age of the son be S and the present age of the father be F.

S + F = 52 ....(1)

F + 4 = 4(S + 4)

Calculation:

S + F = 52

F + 4 = 4(S + 4)

=> F + 4 = 4S + 16

=> F = 4S + 12

Substitute F in the first equation:

S + 4S + 12 = 52

=> 5S + 12 = 52

=> 5S = 40

=> S = 8

Therefore The present age (in years) of the son is 8.

Q25. Answer: (b) 42

Given:

(cbrt(cbrt343))³ × (cbrt(cbrt216))³

Formula used:

(cbrta)³ = a

Calculation:

(cbrt(cbrt343))³

→ (cbrt(343^(1/3)))³

→ 343^((1/3 × 1/3) × 3)

→ 343^(1/3)

→ 7

(cbrt(cbrt216))³

→ (cbrt(216^(1/3)))³

→ 216^((1/3 × 1/3) × 3)

→ 216^(1/3)

→ 6

Multiply the results:

→ 7 × 6 = 42

Therefore, the simplified value is 42.

Q26. Answer: (a) 27°

Given:

The measures of two angles of a triangle are in the ratio 3:7. The sum of these two measures is equal to the measure of the third angle.

Formula used:

Sum of angles in a triangle = 180º

Calculation:

Let the measures of the two angles be 3x and 7x.

Sum of these two angles = 3x + 7x = 10x

Given that the sum of these two measures is equal to the measure of the third angle.

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=> Third angle = 10x

Sum of all angles in a triangle = 180º

=> 3x + 7x + 10x = 180º

=> 20x = 180º

=> x = 180º / 20

=> x = 9º

Smallest angle = 3x

=> Smallest angle = 3 × 9º

=> Smallest angle = 27º

Therefore The correct answer is 27º

Q27. Answer: (b) 27.775

Given:

√625 + √(625/100) + √(625/10000) + √(625/1000000)

Formula used:

√a + (√(a/b)) + √(a/(b²)) + √(a/(b³))

Calculation:

√625 = 25

√(625/100) = √6.25 = 2.5

√(625/10000) = √0.0625 = 0.25

√(625/1000000) = √0.00625 = 0.025

=> 25 + 2.5 + 0.25 + 0.025

=> 27.775

Therefore The value is 27.775

Q28. Answer: (c) 1000

Given:

In an election, a candidate who gets 90% votes is elected by a margin of 800 votes.

Formula used:

Let total votes be x.

Then, 90% of x - 10% of x = 800

Calculation:

90% of x - 10% of x = 800

=> 0.9x - 0.1x = 800

=> 0.8x = 800

=> x = 800/0.8

=> x = 1000

Therefore The total number of votes polled is 1000.

Q29. Answer: (a) Rs. 273

Given:

Principal (P) = Rs. 6,000

Rate for 1st year (r1) = 2.5%

Rate for 2nd year (r2) = 2%

Time (t) = 2 years

Formula used:

Amount after 1st year, A1 = P × (1 + r1/100)

Amount after 2nd year, A2 = A1 × (1 + r2/100)

Compound Interest (CI) = A2 - P

Calculations:

A1 = 6000 × (1 + 2.5/100)

=> A1 = 6000 × 1.025

=> A1 = 6150

A2 = 6150 × (1 + 2/100)

=> A2 = 6150 × 1.02

=> A2 = 6273

CI = A2 - P

=> CI = 6273 - 6000

=> CI = 273

Therefore The correct answer is Rs. 273.

Q30. Answer: (a) 79

Given:

Prime numbers between 69 and 92 are: 71, 73, 79, 83, 89

Formula used:

Average = (Sum of prime numbers) / (Number of prime numbers)

Calculations:

Sum of prime numbers = 71 + 73 + 79 + 83 + 89

=> Sum = 71 + 73 + 79 + 83 + 89 = 395

Number of prime numbers = 5

=> Average = 395 / 5

=> Average = 79

Therefore The correct answer is 79.

Q31. Answer: (c) NKMEZ

The logic followed here is,

Hence, the correct answer is "NKMEZ".

Q32. Answer: (d) [figure]

The logic followed here is,

Hence, the correct answer is "Option 4".

Q33. Answer: (b) Ponder : Contemplate

The logic followed here is:

Logic: Both the words of the pair are synonyms.

Bewilder: Confuse

→ Bewilder means to confuse and surprise.

→ Both are synonyms.

Harmony: Concord

→ Harmony means a state of agreement. Concord means peace and agreement.

→ Both are synonyms.

Let's check each option,

1) Fierce: Gentle → Both are antonym.

2) Ponder: Contemplate → Ponder means to think about something for a long time. Contemplate means to think carefully about something. Both are synonym.

3) Docile: Defiant → Both are antonym.

4) Timid: Bold → Both are antonym.

Hence, the correct answer is "Ponder: Contemplate".

Q34. Answer: (d) Neither conclusion I nor II is true

The given statement is: P ≤ L ≥ M ≥ N = U < V < G

Conclusions:

I. P > V → False (There is no definite relation; P ≤ L ≥ M ≥ N = U < V)

II. G ≤ L → False (There is no definite relation; L ≥ M ≥ N = U < V < G)

Hence, the correct answer is "Neither conclusion I nor II is true".

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Q35. Answer: (a) None

The second, third, fifth and seventh letters of the word TOURIST are "O, U, I, T'.

→ Here, we can see that no word can be formed using these letters.

Hence, the correct answer is "None".

Q36. Answer: (d) Both conclusions 1 and 3 follow.

The least possible venn diagram is shown below,

Conclusions:

1. Some berries are plums → True (Some plums are berries implies that some berries are plums).
2. All plums are apples → False (All apples are plums implies that all plums can be apples. This is possible but not definite).
3. Some coconuts are berries → True (Some berries are coconuts implies that some coconuts are berries).

Hence, the correct answer is "Both conclusions 1 and 3 follow".

Q37. Answer: (b) 31 - 280

The logic followed here is:

Logic: Second number = First number × 9

Let's check each option,

1) 14 - 126

→ 126 = 14 × 9

2) 31 - 280

→ 280 ≠ 31 × 9 => Doesn't follow the logic.

3) 25 - 225

→ 225 = 25 × 9

4) 12 - 108

→ 108 = 12 × 9

Hence, the correct answer is "31 - 280".

Q38. Answer: (d) 813

Given equation: 163 ÷ 5 + 147 × 7 − 19 =?

Sign	•	×
Interchange with	•	÷

After interchanging the signs, the equation we get: 163 × 5 - 147 ÷ 7 + 19 =?

→ 163 × 5 - 147 ÷ 7 + 19 =?

→ 163 × 5 - 21 + 19 =?

→ 815 - 21 + 19 =?

→ 834 - 21 =?

→ 813 =?

Hence, the correct answer is "813".

Q39. Answer: (b) 75

The logic followed here is:

Logic: Second number = First number × 5

11: 55

→ 55 = 11 × 5

12: 60

→ 60 = 12 × 5

Similarly,

15: ?

→ ? = 15 × 5 = 75

Hence, the correct answer is "75".

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Q40. Answer: (c) 524 - 260

The logic followed here is:

Logic: First number = Second number × 2

Let's check each option,

1) 364 - 182

→ 364 = 182 × 2

2) 438 - 219

→ 438 = 219 × 2

3) 524 - 260

→ 524 ≠ 260 × 2 => Doesn't follow the logic.

4) 986 - 493

→ 986 = 493 × 2

Here, we can see that only Option 3 doesn't follow the logic.

Hence, the correct answer is "524 - 260".

Q41. Answer: (d) [figure]

The water reflection of the given figure is shown below,

Hence, the correct answer is "Option 4".

Q42. Answer: (c) Only I follows

The given statement is: Voltage fluctuation in A's home has damaged many of his new electrical appliances.

Courses of action:

I) A should consult an electrician and install a device to safeguard appliances against fluctuations in voltage → True (This action addresses the root cause of the problem (voltage fluctuations) and provides a preventive measure to protect appliances in the future).

II) A must replace all the appliances → False (This action addresses the damage that has already occurred but does not provide a solution to prevent future damage from voltage fluctuations. While replacing damaged appliances may be necessary, it does not solve the underlying issue).

Hence, the correct answer is "Only I follows".

Q43. Answer: (d) Rice - eat

The logic followed here is:

Logic: The second word is used to store or keep the first word.

1) Water - bottles → Water is stored in bottles.

2) Clothes - wardrobes → Clothes are kept in wardrobes.

3) Money - wallets → Money is kept in wallets.

4) Rice - eat → This pair represents an action (to eat) performed on rice => Doesn't follow the logic.

Hence, the correct answer is "Rice - eat".

Q44. Answer: (b) Zero

According to the given information,

Given:- Neha is 10th from the right end and Nalin is 12th from the left end.

Here, we can see that zero people are standing between Neha and Nalin.

Hence, the correct answer is "Zero".

Q45. Answer: (c) ~

According to the given information,

Here, we can see that the code for 'B' is '~'.

Hence, the correct answer is "~".

Q46. Answer: (d) Ingenious : Clever

Logic: The given pair of words are synonyms of each other.

Quench : Satisfy → Quench means to satisfy one's needs or thirst. Quench is a synonym of satisfy.

Nurture : Foster → Both these words means to help something to grow. Nurture is a synonym of foster.

Now, we check the options one by one as follows:

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Option 1) Yield : Resist → Yield is an antonym of Resist.

Option 2) Jealous : Content → Jealous is an antonym of Content.

Option 3) Lethargic : Energetic → Lethargic is the antonym of Energetic.

Option 4) Ingenious : Clever → Ingenious is a synonym of Clever. Both the words mean the same.

Therefore, Ingenious : Clever is the word-pair which follows a similar relationship.

Hence, the correct answer is "Option 4".

Q47. Answer: (c) All conclusions1, 2 and 3 follow.

Given:

Statements :

Some bells are pumps.

All pumps are skates.

All bells are kites.

The least possible Venn Diagram is given as follows:

Conclusions :

1. Some kites are skates. → Follows. (Some bells are pumps. All pumps are skates. All bells are kites. So, some kites are definitely skates.)

2. Some skates are bells. → Follows. (Some bells are pumps. All pumps are skates. All bells are kites. So, some skates are definitely bells.)

3. Some skates are pumps. → Follows. (All pumps are skates and so, some skates are definitely pumps.)

Therefore, all the conclusions follow.

Hence, the correct answer is "Option 3".

Q48. Answer: (a) 33

Given: 82 is related to 41 following a certain logic. Following the same logic, 94 is related to 47.

Logic: First number = 2 × Second number.

For 82 is related to 41-

→ 82 = 2 × 41

→ 82 = 82

For 94 is related to 47-

→ 94 = 2 × 47

→ 94 = 94

Similarly, 66 is related as-

→ 66 = 2 × 33

→ 66 = 66

Therefore, 66 is related to 33 by the same logic.

Hence, the correct answer is "Option 1".

Q49. Answer: (a) [figure]

The image obtained when the paper is unfolded is as shown below:

Hence, the correct answer is " Option 1".

Q50. Answer: (c) D

Given: A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2, and so on, till the topmost floor is numbered 6.

Based on the given conditions, we get the following arrangements:

1. E lives on an odd-numbered floor but not on floor number 5.

2. Only one person lives between E and C.

From these, we get these two cases as follows:

FLOOR NUMBER	PERSON	
	CASE 1	CASE 2
6		

5		
4		
3	E	C
2		
1	C	E

3. B lives on a lower floor than C. This eliminates Case 1 from above, and we get-

FLOOR NUMBER	PERSON
6	
5	
4	
3	C
2	B
1	E

4. A does not live on the topmost floor.

5. D lives immediately above F.

From these, we get the final floor arrangement as follows:

FLOOR NUMBER	PERSON
6	D
5	F
4	A
3	C
2	B
1	E

Therefore, D lives on the topmost floor.

Hence, the correct answer is “Option 3”.

Q51. Answer: (d) 1832

Given equation: 617 ÷ 3 − 84 + 515 × 5 = ?

Given: ‘+’ and ‘–‘ are interchanged and ‘×’ and ‘÷’ are interchanged.

→ 617 ÷ 3 − 84 + 515 × 5 = ?

→ 617 × 3 + 84 - 515 ÷ 5 = ?

→ 617 × 3 + 84 - 103 = ?

→ 1851 + 84 - 103 = ?

→ 1935 - 103 = ?

→ 1832 = 1832

Hence, the correct answer is "Option 4".

Q52. Answer: (b) JAVBE

Given: GA_B M_PB SA_B YAB_ _AHB

We check the options one by one as follows:

Option 1) GAAB/ MWPB/ SABB/ YABU/ YAHB → There is no clear pattern here.

Option 2) GAJB/ MAPB/ SAVB/ YABB/ EAHB → There is a clear pattern followed here which is given as follows:

Option 3) GAMB/ MFPB/ SAGB/ YABT/ YAHB → There is no clear pattern here.

Option 4) GACB/ MHPB/ SAFB/ YABJ/ KAHB → There is no clear pattern here.

Therefore, the correct combination of letters is JAVBE.

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Hence, the correct answer is "Option 2".

Q53. Answer: (d) 150

Given: 4 is related to 40 following a certain logic. Following the same logic, 12 is related to 120.

Logic: First number × 10 = Second number.

For 4 is related to 40-

→ 4 × 10 = 40

→ 40 = 40

For 12 is related to 120-

→ 12 × 10 = 120

→ 120 = 120

Similarly, 15 is related as-

→ 15 × 10

→ 150 = 150

Therefore, 15 is related to 150 by the same logic.

Hence, the correct answer is "Option 4".

Q54. Answer: (d) Only (I)

Given:

Statement :

All mammals are warm - blooded animals.

Inferences :

I. Dogs are warm - blooded animals. → Can be derived. (All breeds of dogs are mammals, which live on land. So, dogs are warm blooded animals.)

II. All warm - blooded creatures are mammals. → Cannot be derived. (The converse of the given statement cannot be inferred as it may or may not be true. All warm blooded creatures are mammals cannot be inferred hence.)

Therefore, only inference I can be derived.

Hence, the correct answer is "Option 4".

Q55. Answer: (a) B

Logic: All the give figures except one are squares with one darkened inner triangle and three similar symbols inside.

Figure B is a hexagon with only two symbols inside.

Therefore, figure B doesn't belong to the group.

Hence, the correct answer is "Option 1".

Q56. Answer: (d) [figure]

Logic: The number of petals in figure B is 3 less than that in figure A.

For figure A and B, we get-

Similarly,

For figure C,

Therefore, only the figure in option 4 has 5 outside flag-like figures.

Hence, the correct answer is "Option 4".

Q57. Answer: (c) Two

Given word: SAVOUR

(left) S A V O U R (right)

The first, fourth, fifth and sixth letters of the word SAVOUR (when counted from left to right) are S, O, U, and R.

Thus, the meaningful four letter English words which can be formed are - SOUR and OURS.

Therefore, two meaningful four letter English words can be formed.

Hence, the correct answer is "Option 3".

Q58. Answer: (a) Neither conclusion I nor II is true

Given:

Statement : T ≥ M < W = P ≥ Q > R ≤ S

Conclusions :

I. P ≤ M → False. (M < W = P, this clearly indicates that M < P.)

II. Q > T → False. (T ≥ M < W = P ≥ Q, it gives no direct relation between Q and T.)

Therefore, neither conclusion I nor II is true.

Q59. Answer: (d) ZUOEZ

Given: CB_W V_SP _NLI HG_B A_XU

We check the options one by one as follows:

Option 1) CBXW/ VUSP/ ONLI/ HGFB/ AYXU → There is no clear pattern here.

Option 2) CBXW/ VUSP/ ONLI/ HGEB/ AZXU → There is no clear pattern here.

Option 3) CBXW/ VUSP/ ONLI/ HGEB/ AYXU → There is no clear pattern here.

Option 4) CBZW/ VUSP/ ONLI/ HGEB/ AZXU → There is a pattern followed here which is given as follows:

Therefore, the correct combination of letters is ZUOEZ.

Hence, the correct answer is "Option 4".

Q60. Answer: (c) E

Given: ‘4378’ is coded as ‘IDOL’ and ‘7832’ is coded as ‘IDLE’.

The logic is as follows:

So, the codes for 7, 8, 3 are I, D and L but not in any particular order as it cannot be determined exactly.

'4' is coded as 'L'.

'2' is coded as 'E'.

Therefore, '2' is coded as 'E'.

Hence, the correct answer is "Option 3".

Q61. Answer: (a) Decline

The solution is in Hindi. Read it online.

Q62. Answer: (c) Don’t judge a book by its cover.

The solution is in Hindi. Read it online.

Q63. Answer: (d) Sedative

The solution is in Hindi. Read it online.

Q64. Answer: (a) He asked the mechanic if he would have the car ready by the next morning.

The correct answer is '1' i.e. He asked the mechanic if he would have the car ready by the next morning.

Key Points

• The sentence in direct speech is a question in the future tense.

• When converting it to reported speech, "said to" changes to "asked" because it's a question.

• The future tense "will you" changes to "would he" to maintain the correct sequence of tenses.

• "By tomorrow morning" is correctly converted to "by the next morning" in reported speech.

Hence, the correct answer is option 1.

Q65. Answer: (d) The river Ganga has some of the purest water on earth.

The correct answer is '4' i.e. The river Ganga has some of the purest water on earth.

Key Points

• The original sentence uses the comparative form "purer."

• In the superlative degree, the comparative adjective "purer" changes to "purest."

• The correct superlative phrase is "some of the purest water on earth."

Hence, the correct answer is option 4.

Q66. Answer: (c) A new house was built by them last year.

The correct answer is '3' i.e. A new house was built by them last year.

Key Points

• In the active voice, the subject "they" performs the action "built" on the object "a new house."

• In the passive voice, the object "a new house" becomes the subject.

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• The verb "built" changes to "was built" to match the tense and maintain the passive construction.
• The original sentence's time reference "last year" remains the same.
Hence, the correct answer is option 3.

Q67. Answer: (d) considered pseudoscience

The correct answer is option 4 i.e. considered pseudoscience.
Key Points
• A definite article "a" is required before "pseudoscience" to be grammatically correct.
• The correct phrase should be "considered a pseudoscience."
• The other parts of the sentence are grammatically correct.
Hence, the part with the error is option 4.

Q68. Answer: (d) Meera is the elder

The correct answer is option 4 i.e. Meera is the elder.
Key Points
• The term "elder" is used when comparing only two people. Since there are three sisters, the correct term is "eldest."
• The corrected phrase should be "Meera is the eldest."
• The other parts of the sentence are grammatically correct.
Hence, the part with the error is option 4.

Q69. Answer: (a) Getting a preview of something

The solution is in Hindi. Read it online.

Q70. Answer: (b) are working

The correct answer is option 2 i.e. are working.
Key Points
• The sentence begins with "Currently," indicating an action that is happening at the present moment.
• The present continuous tense "are working" correctly expresses ongoing action.
• The other options do not fit the context of an ongoing current action:
• "Worked" is past tense.
• "Have worked" is present perfect tense.
• "Were working" is past continuous tense.
Hence, the correct answer is option 2.

Q71. Answer: (b) Despite facing setbacks, she remained positive and determined to achieve her goals.

The solution is in Hindi. Read it online.

Q72. Answer: (d) in an earlier job, he will never be

The correct answer is option 4 i.e. in an earlier job, he will never be.
Key Points
• The phrase "he will never be" is unnecessary as it introduces a redundant subject "he."
• The sentence already has a subject "A man who has been accused of fraud," making "he" redundant and incorrect.
• The corrected version should simply be "A man who has been accused of fraud in an earlier job will never be welcomed in any other organisation."
• The other parts of the sentence are grammatically correct.
Hence, the part with the error is option 4.

Q73. Answer: (c) Conceal

The solution is in Hindi. Read it online.

Q74. Answer: (c) bring up

The correct answer is option 3 i.e. bring up.
Key Points
• The phrasal verb "bring up" means to introduce or mention a topic in a conversation or discussion.
• The context of the sentence involves students sharing their ideas during a class discussion, which aligns with the meaning of "bring up."

• The other options do not fit the context:
• "Get on" means to proceed or make progress.
• "Put off" means to delay or postpone something.
• "Bring about" means to cause something to happen.
Hence, the correct answer is option 3.

Q75. Answer: (a) authorities

The solution is in Hindi. Read it online.

Q76. Answer: (a) has

The correct answer is option 1 i.e. has.
Key Points
• The verb "has" is used with singular subjects to form the present perfect tense.
• The subject "The war" is singular, so "has" is the correct form.
• The present perfect tense "has badly damaged" indicates that the damage occurred at an unspecified time before now and has a present relevance.
• The other options do not fit the grammatical structure:
• "Have" is used with plural subjects.
• "Was" is past tense and would require a different sentence structure.
• "Is" is present tense and would also require a different sentence structure.
Hence, the correct answer is option 1.

Q77. Answer: (a) A challenging assignment has been given by Perumal to the newly admitted students.

The correct answer is option 1 i.e. A challenging assignment has been given by Perumal to the newly admitted students.
Key Points
• In passive voice, the focus is on the action and the object rather than the subject.
• The original sentence is in the present perfect tense, "has given."
• The correct passive voice form for the present perfect tense is "has been given."
• Option 2 ("A challenging assignment will have been given") is in the future perfect tense, which does not match the original sentence.
• Option 3 ("A challenging assignment was given") is in the simple past tense, which does not match the original sentence.
• Option 4 ("A challenging assignment had been given") is in the past perfect tense, which does not match the original sentence.
Hence, the correct answer is option 1.

Q78. Answer: (c) hand in

The correct answer is option 3 i.e. hand in.
Key Points
• The phrasal verb "hand in" means to submit something, particularly a piece of work or an assignment.
• The context of the sentence involves students submitting their essays, which fits the meaning of "hand in."
• The other options do not fit the context:
• "Land in" means to arrive at or come to a particular place or situation.
• "Put off" means to delay or postpone something.
• "Hand up" is not a commonly used phrasal verb and does not fit the context.
Hence, the correct answer is option 3.

Q79. Answer: (d) Catastrophe

The solution is in Hindi. Read it online.

Q80. Answer: (a) Narcissist

The solution is in Hindi. Read it online.

Q81. Answer: (b) Calm

The solution is in Hindi. Read it online.

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Q82. Answer: (b) go

The correct answer is option 2 i.e. go.

Key Points

• The verb form after "did not" should be the base form of the verb.

• "Go" is the base form of the verb "to go."

• "Gone" is the past participle form, which is incorrect in this context.

• "Went" is the past tense form, but it is incorrect after "did not."

• "Going" is the present participle form, which is also incorrect in this context.

Hence, the correct answer is option 2.

Q83. Answer: (d) Anil told Ria that he knew where everything was kept in the kitchen.

The correct answer is option 4 i.e. Anil told Ria that he knew where everything was kept in the kitchen.

Key Points

• In reported speech, present tense verbs are usually changed to their past tense forms.

• "I know" changes to "he knew" because "know" is in the present tense and must be changed to the past tense "knew."

• "Is kept" changes to "was kept" for the same reason, the present tense "is" changes to the past tense "was."

• The reporting verb "said to" changes to "told" since the sentence is an assertion, not a question.

Hence, the correct answer is option 4.

Q84. Answer: (a) that the Monarchy is

The part that contains the error is option 1 i.e. that the Monarchy is.

Key Points

• The error lies in the incorrect use of the article "the" before "Monarchy."

• The word "Monarchy" should not be preceded by "the" when it is used in a general sense.

• The correct sentence should be, "It is a well-known fact that Monarchy is not the best form of governance."

• The other parts of the sentence are grammatically correct.

Hence, the error is in option 1.

Q85. Answer: (c) Lisentious

The solution is in Hindi. Read it online.

Q86. Answer: (c) The lesson will be explained by the teacher tomorrow.

The correct answer is option 3 i.e. The lesson will be explained by the teacher tomorrow.

Key Points

• The structure for converting an active sentence in the simple future tense to passive voice is: subject + will be + past participle + by + agent.

• In the given sentence, "the teacher" is the subject, "will explain" is the verb phrase in the future tense, and "the lesson" is the object.

• In the passive voice, "the lesson" becomes the subject, "will explain" changes to "will be explained," and "the teacher" becomes the agent prefixed by "by."

Hence, the correct answer is option 3.

Q87. Answer: (c) surreptitious

The solution is in Hindi. Read it online.

Q88. Answer: (c) was going

The correct answer is option 3 i.e. was going.

Key Points

• The subject "Tania" is singular, so the verb form should be singular as well.

• The correct past continuous tense for the subject "Tania" is "was going."

Hence, the correct answer is option 3.

Q89. Answer: (a) falling

The solution is in Hindi. Read it online.

Q90. Answer: (a) trained

The solution is in Hindi. Read it online.

Q91. Answer: (a) insight

The solution is in Hindi. Read it online.

Q92. Answer: (b) survive

The solution is in Hindi. Read it online.

Q93. Answer: (a) Simplicity

The correct answer is option 1 i.e. Simplicity.

Key Points

• The passage emphasizes that simplicity in conduct is a crucial quality of a leader that can be emulated by followers.

• It specifically mentions that pomp and show, flattery, and sanctioning more incentives are not the qualities that should characterize a leader.

• The quality of being deified is associated with creating a sense of awe, not a desired quality for effective leadership as per the passage.

• The passage highlights simplicity as the quality that followers can adopt irrespective of their cadre, class, or calibre.

Hence, the correct answer is option 1.

Q94. Answer: (b) Imitate

The correct answer is option 2 i.e. Imitate.

Key Points

• The word "emulate" means to try to equal or surpass someone, especially by imitating them.

• Option 2 "Imitate" is the most appropriate synonym for "emulate" as it means to copy or mimic someone.

• Option 1 "Relax" means to become less tense or anxious, which is not related to imitating.

• Option 3 "Suppose" means to assume something to be true without proof, which is not related to emulating.

• Option 4 "Exhibit" means to show or display something, which does not convey the meaning of trying to copy or match someone.

Hence, the correct answer is option 2.

Q95. Answer: (c) To gain acceptance by the members of the group

The correct answer is option 3 i.e. To gain acceptance by the members of the group.

Key Points

• The passage states that leadership does not exist without followership and that a leader has to be accepted by the group they are supposed to lead.

• Creating an emotive impact on the group members is essential for the leader to gain acceptability.

• Options 1, 2, and 4 are not mentioned in the passage as reasons for generating an emotive impact.

• The passage emphasizes that the acceptability of a leader is crucial for effective leadership, which is achieved through an emotive impact.

Hence, the correct answer is option 3.

Q96. Answer: (a) A leader effectively inspires and guides his followers to achieve desired goals.

The correct answer is option 1 i.e. A leader effectively inspires and guides his followers to achieve desired goals.

Key Points

• The passage discusses how leadership is dependent on followership and the acceptance of a leader by the group.

• The leader's strength of character and simplicity in conduct are highlighted as qualities that inspire followers.

• Option 1 captures the essence of the passage by stating that a leader inspires and guides followers to achieve worthwhile things.

• Option 2 is incorrect as the passage mentions that certain styles (like pomp and show or flattery) cannot serve as long-term motivation, not that a leader's style in general cannot motivate.

• Option 3 is not addressed in the passage; it focuses on the qualities of a leader rather than individual intellectual strength.

• Option 4 is not mentioned in the passage, which focuses on leadership qualities rather than administrative knowledge for followers' success.

Hence, the correct answer is option 1.

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Q97. Answer: (a) they do it without considering the business point of view

The correct answer is option 1 i.e. they do it without considering the business point of view.

Key Points

• The passage states that parents are careless and unscientific in giving names to children, specifically mentioning that they forget the importance of a name from both a social and business point of view.

• The contributor highlights that a name can have significant business implications and that notoriety through a memorable name can be considered a form of capital.

• Option 2 is incorrect as discussing the name with relatives and friends is not mentioned in the passage.

• Option 3 is incorrect because the passage does not focus on the actual meaning of the name but rather on its euphonic quality and its impact in social and business contexts.

• Option 4 is incorrect as there is no mention in the passage of parents considering the child's personal interest in the name.

Hence, the correct answer is option 1.

Q98. Answer: (d) Euphonic

The correct answer is option 4 i.e. Euphonic.

Key Points

• The passage mentions the term "euphonic quality" in the context of choosing a child's name.

• “Euphonic” refers to sounds that are pleasing and sweet, which aligns with the meaning given in the question.

• Options like "Identity," "Advantageous," and "Outcomes" do not fit the description of "pleasing and sweet sound."

Hence, the correct answer is option 4.

Q99. Answer: (d) A headstart in life

The correct answer is option 4 i.e. A head start in life.

Key Points

• The passage states that a good name will give a child “a start in life equivalent to a cash capital of at least fifteen thousand dollars.” This means that a good name can provide a significant advantage or head start in life.

• Option 1 is incorrect as the passage does not refer to a bank balance directly.

• Option 2 is incorrect as the passage does not mention anything about an address.

• Option 3 is incorrect because there is no mention of a professional attitude being given by a good name in the passage.

Hence, the correct answer is option 4.

Q100. Answer: (c) Persuasive

The correct answer is option 3 i.e. Persuasive.

Key Points

• The speaker in the passage is making a case for the importance of names and guiding parents on how to choose them carefully. This demonstrates a persuasive tone as the speaker aims to convince the audience of their viewpoint.

• Option 1 is incorrect as there is no humor in the passage.

• Option 2 is incorrect because sarcasm implies mockery, which is not present in the passage.

• Option 4 is incorrect as melancholy refers to sadness, which is not the tone of the passage.

Hence, the correct answer is option 3.

Q101. Answer: (b) Delhi and Chandigarh

The correct answer is Option 2

Key Points

• Delhi and Chandigarh are the most urbanized union territories in India according to the Census of India-2011.

• The Census of India-2011 provides comprehensive data on the urbanization levels across various states and union territories.

• Urbanization is measured by the proportion of the population living in urban areas compared to the total population.

• Delhi, being the capital territory, has a significant urban population with extensive infrastructure and metropolitan features.

• Chandigarh, designed by the famous architect Le Corbusier, is known for its urban planning and high urban population density.

Additional Information

• According to the Census of India-2011, urbanization in India has been on the rise, with more people moving to cities for better opportunities and living standards.

• Union territories like Delhi and Chandigarh have seen rapid urban growth due to their strategic importance and administrative functions.

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• Urban planning and development initiatives in these territories have contributed to their high urbanization levels.

• The Census of India is conducted every ten years and is the most reliable source of demographic data in the country.

Q102. Answer: (c) The operation of economic system results for concentration of wealth

The correct answer is Option 3

Key Points

• The Directive Principles of State Policy are guidelines for the framing of laws by the government.

• They are included in Part IV of the Constitution of India and aim to create social and economic conditions under which citizens can lead a good life.

• Option 3: "The operation of economic system results for concentration of wealth" is NOT a Directive Principle.

• Other options such as ensuring the tender age of children is not abused, equal pay for equal work, and the ownership of material resources of the community being for the common good, are part of the Directive Principles.

Additional Information

• The Directive Principles are non-justiciable in nature, meaning they are not legally enforceable by the courts for their violation.

• They are considered fundamental in the governance of the country and aim to establish a just society in India.

• Examples of Directive Principles include the promotion of international peace and security, the organization of village panchayats, and the provision of free legal aid.

• These principles act as a yardstick in the hands of the electorate to measure the performance of the government.

Q103. Answer: (a) 13

Concept:

• pH and pOH: pH is a measure of the hydrogen ion concentration in a solution, while pOH is a measure of the hydroxide ion concentration.

• Relationship between pH and pOH: The sum of pH and pOH is always 14 at 25°C.

• pH + pOH = 14

• For a strong base like NaOH, which dissociates completely in water:

• NaOH → Na^+ + OH^-

Calculations:

Given that,

• Volume of solution (V) = 100 mL = 0.1 L

• Moles of NaOH = 0.01 moles

The molarity (M) of NaOH solution is given by:

M =

M = = 0.1 M

Since NaOH is a strong base, it dissociates completely in water:

[OH^-] = 0.1 M

pOH is calculated using the formula:

pOH = -log[OH^-]

pOH = -log(0.1) = 1

Using the relationship between pH and pOH:

pH + pOH = 14

pH = 14 - pOH

pH = 14 - 1 = 13

So, the pH of the solution is 13.

Additional Information

• The pH scale ranges from 0 to 14, with 7 being neutral. Values below 7 indicate acidity, and values above 7 indicate alkalinity.

• Strong bases like NaOH have high pH values, typically close to 14.

Q104. Answer: (d) producers

The correct answer is producers

Key Points

• Producers are organisms, typically plants, that produce energy through photosynthesis using sunlight.

• In the energy flow diagram of an ecosystem, energy from the sun is captured by producers (plants) and then transferred to herbivores when they consume the plants.

• This energy transfer is crucial for the survival of herbivores, which rely on producers as their primary food source.

• Producers form the base of the food chain and support all other levels of consumers.

Additional Information

• Photosynthesis is the process by which producers convert sunlight into chemical energy in the form of glucose.

• Herbivores, such as deer and rabbits, consume these producers to obtain the energy necessary for their growth and survival.

• The energy transfer continues up the food chain from herbivores to carnivores and top carnivores.

• The efficiency of energy transfer between trophic levels is typically around 10%, meaning a significant amount of energy is lost as heat at each level.

• This concept is fundamental to understanding ecological dynamics and the structure of food webs.

Q105. Answer: (b) Tripura

The correct answer is Tripura

Key Points

• Daspara village in Tripura was converted to a nature-based lifestyle and livelihood, becoming India's first modified bio village in September 2022.

• The village is solely dependent on agriculture and fishery.

• This transition included reducing the use of chemical fertilizers and adopting more sustainable practices.

• This initiative reflects a growing trend towards sustainable development and environmental conservation in rural India.

Additional Information

• Tripura is known for its diverse culture and natural beauty, making it an ideal location for such sustainable initiatives.

• The state government has been actively promoting organic farming and sustainable agricultural practices to improve the livelihood of its farmers.

• Such initiatives are crucial for environmental conservation and can serve as a model for other regions in India.

Q106. Answer: (b) 0.5 km / minute2

Concept:

• Average acceleration: The change in velocity divided by the time taken to change the velocity is called average acceleration.

• Formula for average acceleration: Average acceleration (a) is given by the formula:

• a = (v_f - v_i) / t

• Where:

• v_f is the final velocity

• v_i is the initial velocity

• t is the time taken

Calculations:

Given that,

• Initial velocity, v_i = 10 km/h

• Final velocity, v_f = 70 km/h

• Time taken, t = 2 minutes = 2/60 hours = 1/30 hours

So we have a formula for average acceleration,

a = (v_f - v_i) / t

Substituting the given values:

a = (70 - 10) / (1/30) = 60 × 30 = 1800 km/h²

To convert km/h² to km/min², we divide by 3600 (since 1 hour = 60 minutes and hence (60 minutes)² = 3600 minutes²):

a = 1800 / 3600 = 0.5 km/min²

So the average acceleration of the bus is 0.5 km/min².

Additional Information

• Acceleration is a vector quantity that has both magnitude and direction.

• Deceleration is negative acceleration where the speed of an object decreases over time.

• In SI units, acceleration is measured in meters per second squared (m/s²).

Q107. Answer: (c) marasmus

The correct answer is marasmus

Key Points

• Marasmus is a severe form of undernutrition caused by a deficiency of calories and energy.

• It primarily affects young children and is characterized by significant weight loss, muscle wasting, and depletion of fat stores.

• Marasmus results from prolonged starvation and inadequate intake of protein and calories, leading to a state of extreme emaciation.

• The condition is often seen in areas with famine, severe poverty, and limited access to food resources.

Additional Information

• Kwashiorkor is another form of severe undernutrition but is primarily due to protein deficiency and not necessarily calorie deficiency.

• Symptoms of marasmus include severe wasting of muscles, stunted growth, and a weakened immune system, making the child more susceptible to infections.

• Immediate medical intervention, adequate nutrition, and proper care are essential for the treatment and recovery of individuals suffering from marasmus.

Q108. Answer: (d) diffusion

The correct answer is diffusion

Key Points

• Diffusion is the process through which gases from the atmosphere reach aquatic animals and plants.

• In diffusion, molecules move from an area of higher concentration to an area of lower concentration until equilibrium is achieved.

• This process is essential for maintaining the oxygen and carbon dioxide balance in aquatic environments.

• Both oxygen and carbon dioxide are crucial for the respiration and photosynthesis processes in aquatic life forms.

Additional Information

• Condensation is the process by which water vapor becomes liquid water, and it is not involved in the transport of gases to aquatic environments.

• Evaporation is the process of turning liquid water into vapor, which also does not contribute to the transport of gases into water.

• Sublimation is the transition of a substance directly from the solid to the gas phase without passing through the liquid phase, which is not relevant to gas exchange in water.

• Diffusion is the primary method through which gases like oxygen and carbon dioxide enter and exit the water, enabling aquatic life to survive.

Q109. Answer: (d) Increasing CO2 concentration

The correct answer is Increasing CO2 concentration

Key Points

• Increasing CO2 concentration is the primary factor contributing to the enhancement of the greenhouse effect.

• The greenhouse effect is a natural phenomenon where certain gases in the Earth's atmosphere trap heat, preventing it from escaping into space and thereby warming the planet.

• Human activities, particularly the burning of fossil fuels such as coal, oil, and natural gas, have significantly increased the concentration of carbon dioxide (CO2) in the atmosphere.

• This rise in CO2 levels enhances the greenhouse effect, leading to global warming and climate change.

• Other greenhouse gases include methane (CH4), nitrous oxide (N2O), and fluorinated gases, but CO2 is the most abundant and has the most significant impact.

Additional Information

• SO2 levels (Sulfur dioxide) primarily contribute to acid rain rather than the greenhouse effect.

• Ozone layer hole refers to the depletion of the ozone layer, which protects the Earth from harmful ultraviolet radiation, but it is not a primary factor in the greenhouse effect.

• Chlorofluorocarbons (CFCs) are potent greenhouse gases and also contribute to ozone layer depletion, but their concentration is much lower compared to CO2.

• Efforts to mitigate climate change focus on reducing CO2 emissions through renewable energy sources, energy efficiency, reforestation, and other measures.

Q110. Answer: (d) 1 and 3 only

The correct answer is 4 Only.

Key PointsTransfer Payments:

• Transfer payments are made by the government to households. This includes payments such as unemployment benefits, social security, and welfare payments. These payments are meant to support individuals and families in need. Hence, Statement 1 is correct.

• Pension, scholarship etc. are not a part of the transfer payments. This statement is incorrect because pensions and scholarships are indeed considered transfer payments. Transfer payments are non-exchange transactions where the government provides financial support without receiving any goods or services in return. Hence, Statement 2 is not correct.

• Transfer payments are often used as a means of redistributing income within a society. The government utilizes transfer payments as a tool for redistributing income to ensure a more equitable distribution of wealth and to provide financial assistance to those in need. Hence, Statement 3 is correct.

Therefore, the correct answer is 4 Only as statements 1 and 3 are correct.

Q111. Answer: (d) Only statement 1 is correct

The correct answer is 4 Only.

Key Points

• Statement 1: Khasi and Jaintia hills receive the highest rainfall, which exceeds 1000 cm.

• This statement is correct. The Khasi and Jaintia hills, located in Meghalaya, India, are known for receiving some of the highest rainfall in the world. Mawsynram, which is located in the Khasi Hills, holds the record for the highest average annual rainfall.

• Statement 2: Ladakh and most western Rajasthan receive rainfall above 150 cm.

• This statement is incorrect. Ladakh and most of western Rajasthan are arid regions that receive very low rainfall. Ladakh, being a cold desert, and western Rajasthan, being part of the Thar Desert, generally receive less than 50 cm of annual rainfall.

• Based on the above points, Statement 1 is correct and Statement 2 is incorrect. Therefore, the correct answer is 4 Only.

Q112. Answer: (b) 1, 2 and 4

The correct answer is 2) 1, 2 and 4.

Key PointsUNDP Partnership with DAY - NULM:

• Statement 1: UNDP and DAY - NULM have entered into a collaborative partnership aimed at empowering women to make well-informed career choices in the field of entrepreneurship. This statement is correct as the partnership focuses on empowering women, particularly in entrepreneurship.

• Statement 2: The partnership will provide support for women looking to start and expand their own enterprises, particularly in sectors such as care economy, digital economy, electric mobility, waste management, food packaging and more. This statement is also correct as it highlights the various sectors in which women will receive support to start and expand their enterprises.

• Statement 3: Focused on fostering entrepreneurship development and accelerating enterprise growth, the five-year project, extendable beyond 2027, will cover ten cities in the initial phase. This statement is not correct. The initial phase does not specify a five-year project extendable beyond 2027.

• Statement 4: UNDP will contribute to the initiative by developing community business mentors called 'Biz - Sakhis' in selected project locations. This statement is correct as UNDP will develop community business mentors to support the initiative.

Therefore, the correct answer is option 2) 1, 2 and 4.

Q113. Answer: (c) 3 and 4

The correct answer is 3 and 4.

Key Points

• Original Jurisdiction: The Original Jurisdiction of the Supreme Court establishes it as an umpire in disputes regarding federal matters, such as disputes between different states or between the center and states. Hence, Statement 1 is correct.

• Writs by Supreme Court: The Supreme Court can issue special orders in the form of writs for the enforcement of fundamental rights under Article 32 of the Indian Constitution. Hence, Statement 2 is correct.

• Article 129: Article 129 of the Indian Constitution does not mention the appointment of an acting Chief Justice of India. Instead, it declares the Supreme Court to be a court of record. Hence, Statement 3 is incorrect.

• Appointment of Judges: The appointment of Judges of the Supreme Court of India is done by the President of India as per Article 124 of the Indian Constitution, not by the Prime Minister. Hence, Statement 4 is incorrect.

Q114. Answer: (d) Reserve Bank of India

The correct answer is Reserve Bank of India

Key Points

• The Reserve Bank of India (RBI) issued guidelines for microfinance institutions in India.

• The guidelines cover various aspects such as the regulation of interest rates, transparency in operations, and measures to prevent over-indebtedness of borrowers.

• The RBI's regulations aim to ensure that microfinance institutions operate in a manner that is fair and beneficial to the borrowers, especially those from economically weaker sections.

• The guidelines are part of the RBI's broader mandate to regulate and supervise the financial sector in India, ensuring stability and consumer protection.

Additional Information

• The Reserve Bank of India is the central banking institution of India, which controls the issuance and supply of the Indian rupee and aims to secure monetary stability in India.

• Established on 1st April 1935, the RBI plays a crucial role in the development and regulation of the country's financial system.

• The RBI's functions include managing the country's currency, overseeing the monetary policy, regulating financial institutions, and ensuring financial stability.

• Microfinance institutions play a vital role in providing financial services to the underserved and unbanked segments of the population, making the RBI's guidelines critical for their effective functioning.

• The regulation of microfinance by the RBI helps in mitigating risks such as over-lending and ensures the sustainability of the microfinance sector.

Q115. Answer: (c) Both A and B

The correct answer is 3 Both A and B.

Key Points

• Prarthana Samaj was indeed a movement for religious and social reforms. It aimed at rational worship and social reforms such as the abolition of caste system and the promotion of women's education.

• Prarthana Samaj was founded in 1867 by Dadoba Pandurang and his brother Atmaram Pandurang. The society was influenced by the Brahmo Samaj movement in Bengal and aimed to make people believe in one God and worship only one God.

• The Prarthana Samaj worked towards the betterment of society by fighting against social evils like child marriage, untouchability, and the dowry system.

• It also laid emphasis on the education of women and the upliftment of the oppressed classes.

• Both statements A and B are correct and provide a comprehensive overview of the objectives and founding of the Prarthana Samaj.

Q116. Answer: (d) A - 1, B - 2, C - 3, D - 4

The correct answer is A-1, B-2, C-3, D-4.

Key Points

• Pitt's India Act was enacted in 1784 to address the administrative and financial issues faced by the British East India Company. Hence, A matches with 1.

• Permanent Settlement of Bengal was introduced in 1793 by Lord Cornwallis, which aimed to create a reliable revenue source for the British administration by fixing land revenue. Hence, B matches with 2.

• Introduction of the Subsidiary Alliance System was done by Lord Wellesley in 1798 to expand British influence in India by making Indian states dependent on British forces for defense. Hence, C matches with 3.

• Abolition of Sati was implemented in 1829 by Lord William Bentinck, which prohibited the practice of burning widows on their husband's funeral pyre. Hence, D matches with 4.

Additional Information

• Pitt's India Act:

• Also known as the East India Company Act 1784, it was named after the then British Prime Minister William Pitt the Younger.

• The Act established a system of dual control by the British government and the East India Company.

• Permanent Settlement of Bengal:

• This settlement created a new class of landlords, the Zamindars, who were given hereditary rights to collect land revenue.

• It aimed to ensure a steady revenue stream for the British administration but often led to the exploitation of peasants.

• Subsidiary Alliance System:

• Under this system, Indian rulers were not allowed to have their independent armed forces and had to rely on British troops stationed in their territories.

• In return, they had to pay for the maintenance of these troops or cede territory.

• Abolition of Sati:

• The abolition was a significant social reform aimed at ending the inhumane practice of Sati.

• It was part of broader efforts by the British to introduce social and legal reforms in India.

Q117. Answer: (d) a – i; b – ii; c – iv; d – iii

The correct answer is a-i, b-ii, c-iv, d-iii.

Key Points

• Manpreet Kaur is a renowned Indian athlete who specializes in the Shot put. She has set remarkable records in this field. Hence, a matches with i.

• Avinash Sable is an exceptional Athlete known for his achievements in the track and field events, particularly in steeplechase. Hence, b matches with ii.

• Mirabai Chanu is a celebrated Indian sportsperson in the field of Weightlifting. She has garnered international recognition for her performances. Hence, c matches with iv.

• Pooja Jatyan is an accomplished Archer who has made significant contributions and achieved records in archery. Hence, d matches with iii.

Additional Information

• Shot put:

• Shot put is a track and field event involving "putting" (pushing rather than throwing) a heavy spherical object—the shot—as far as possible.

• It requires a combination of strength, technique, and explosive power.

• Athletics:

• Athletics includes a variety of events such as running, jumping, and throwing.

• Avinash Sable is specifically known for his prowess in steeplechase, a distance track running event.

• Weightlifting:

• Weightlifting is a sport in which athletes attempt a maximum-weight single lift of a barbell loaded with weight plates.

• Mirabai Chanu has excelled in this sport, winning numerous medals at international competitions.

• Archery:

• Archery is a sport that involves shooting arrows at a target for accuracy from a set distance.

• Pooja Jatyan has made significant strides in this sport, representing India at various international platforms.

Q118. Answer: (c) Thiruvananthapuram

The correct answer is Thiruvananthapuram

Key Points

• Thiruvananthapuram is the first city in India to receive monsoon rains.

• It is located in the southern state of Kerala, which is the entry point for the southwest monsoon in India.

• The monsoon typically reaches Thiruvananthapuram by the end of May or the beginning of June.

• The arrival of the monsoon in Thiruvananthapuram marks the beginning of the rainy season across the Indian subcontinent.

Additional Information

• The southwest monsoon is a seasonal wind pattern that brings heavy rainfall to India, crucial for agriculture and water supply.

• Kerala's coastline and Western Ghats play a significant role in the monsoon's entry and distribution.

• Monsoon forecasting is essential for planning and mitigating the impacts of heavy rains and potential flooding.

• Other cities in India receive monsoon rains progressively after Thiruvananthapuram as the monsoon advances northward.

Q119. Answer: (b) Food Safety and Standards Authority of India (FSSAI)

The correct answer is Food Safety and Standards Authority of India (FSSAI)

Key Points

• The Food Safety and Standards Authority of India (FSSAI) is responsible for setting the maximum residue limits (MRLs) of pesticides in food materials.

• The FSSAI was established under the Food Safety and Standards Act, 2006, which consolidates various acts and orders related to food safety and regulation in India.

• It is an autonomous body under the Ministry of Health & Family Welfare, Government of India.

• The primary aim of FSSAI is to ensure that the food products being sold are safe for consumption and meet the required standards.

• FSSAI sets standards for food articles and regulates their manufacture, storage, distribution, sale, and import to ensure the availability of safe and wholesome food for human consumption.

Additional Information

• The Food Safety and Standards Act, 2006 was enacted to provide a systematic and comprehensive approach to food safety and regulation.

• FSSAI operates at the central level, while there are corresponding State Food Safety Authorities in each state for enforcement and implementation at the state level.

• The organization also works on promoting general awareness about food safety and hygiene among consumers and food businesses.

• FSSAI's regulations and standards are regularly updated to address emerging challenges and advancements in food science

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and technology.

Q120. Answer: (a) 2, 3 and 4

The correct answer is Option 1: 2, 3 and 4.

Key Points

• Statement 1: Indian captain Jasprit Bumrah broke Brian Lara's world record by scoring 32 runs in an over. This statement is incorrect.

• Statement 2: The world record stayed with Brian Lara for 18 years. This statement is correct.

• Statement 3: Brian Lara had hit South African left-arm spinner Robin Peterson for his record. This statement is correct.

• Statement 4: Jasprit Bumrah created a world record for maximum runs off a single over in Test cricket by hitting Stuart Broad for 35 runs.This statement is correct.

Additional Information

• Brian Lara's World Record:

• Brian Lara's record for the most runs in a single over in Test cricket was set in 2003, when he scored 28 runs off an over from South African spinner Robin Peterson.

• This record stood for 18 years until it was broken by Jasprit Bumrah in 2022.

• Jasprit Bumrah's Achievement:

• In July 2022, during a Test match at Edgbaston, Jasprit Bumrah scored 29 runs off Stuart Broad in a single over, with the over totaling 35 runs due to extras, thus setting a new world record.

• This remarkable feat highlighted Bumrah's versatility as a cricketer, demonstrating his prowess not just as a bowler but also as a capable batsman.

Q121. Answer: (b) Port number

The correct answer is Port number

Key Points

• Port number is a component of a URL (Uniform Resource Locator).

• A URL is used to specify addresses on the World Wide Web.

• It typically consists of the protocol (such as HTTP or HTTPS), the domain name, and may include a port number, path, query string, and fragment identifier.

• The port number is used to identify a specific process or service on the server. For example, HTTP typically uses port 80, while HTTPS uses port 443.

• Including the port number in the URL allows communication with the correct service or application on the server.

Additional Information

• A URL can also include a username and password for authentication, although this is less common.

• The domain name part of the URL can be either an IP address or a human-readable name that is resolved to an IP address via DNS (Domain Name System).

• The path specifies the exact resource within the domain that the client wants to access.

• Query strings are used to pass additional parameters to the server, typically in the format of key-value pairs.

• The fragment identifier is used to point to a specific section within a resource, usually within an HTML document.

Q122. Answer: (d) To control the horizontal or vertical placement of text within margins.

The correct answer is To control the horizontal or vertical placement of text within margins.

Key Points

• The 'Alignment' options in Microsoft Word are used to control the horizontal or vertical placement of text within margins.

• These options include left alignment, center alignment, right alignment, and justified alignment for horizontal placement.

• Vertical alignment can be adjusted within text boxes, tables, or entire pages.

• Proper alignment of text ensures better readability and a professional appearance of the document.

Additional Information

• To adjust text alignment, you can use the alignment buttons located on the toolbar in Microsoft Word.

• Left alignment is the default setting where text aligns with the left margin.

• Center alignment centers the text between the left and right margins.

• Right alignment aligns text with the right margin.

• Justified alignment adjusts the spacing between words so that the text aligns evenly along both the left and right margins, creating a clean look.

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• Vertical alignment options can be found in the Page Setup dialog box under the Layout tab for whole pages or within table cell properties for specific table cells.

Q123. Answer: (c) Storing the computer's firmware and startup instructions.

The correct answer is Storing the computer's firmware and startup instructions

Key Points

• ROM (Read-Only Memory) is a type of non-volatile memory used in computers and other electronic devices.

• It is primarily used to store the computer's firmware and startup instructions.

• Firmware is a specific class of computer software that provides the low-level control for the device's specific hardware.

• Unlike RAM (Random Access Memory), ROM retains its contents even when the computer is powered off.

• This makes ROM crucial for the booting process of the computer, as it holds the initial program that the processor uses to start the computer system after it is turned on.

Additional Information

• ROM is typically programmed during the manufacturing process, and its contents cannot be modified easily or at all, depending on the type of ROM.

• There are different types of ROM, including PROM (Programmable ROM), EPROM (Erasable Programmable ROM), and EEPROM (Electrically Erasable Programmable ROM).

• EEPROM can be reprogrammed and erased multiple times using an electrical charge, making it more flexible than other types of ROM.

• ROM is essential for the basic functioning of any computer system, ensuring that critical software is always available to the hardware.

Q124. Answer: (b) An attack that floods a network with excessive traffic to overwhelm and disrupt its operation.

The correct answer is an attack that floods a network with excessive traffic to overwhelm and disrupt its operation.

Key Points

• A Distributed Denial of Service (DDoS) attack aims to overwhelm and disrupt the normal traffic of a targeted server, service, or network by flooding it with an excessive amount of traffic from multiple sources.

• These attacks exploit the capacity limits of network resources such as the infrastructure that enables a website to function.

• Because the attack comes from multiple distributed sources, it is extremely difficult to stop the assault by blocking a single IP address.

• DDoS attacks can target various layers of the OSI model, including network, transport, and application layers.

Additional Information

• Mitigation strategies for DDoS attacks include the use of firewalls, anti-DDoS hardware, and cloud-based protection services.

• Organizations can also use traffic analysis tools to identify and filter out malicious traffic.

• It's important to have a response plan in place to quickly address and mitigate the effects of a DDoS attack.

• DDoS attacks have become increasingly sophisticated, often involving multiple attack vectors and targeting different layers of the network simultaneously.

Q125. Answer: (c) A social engineering attack that tricks users into revealing sensitive information.

The correct answer is 3) A social engineering attack that tricks users into revealing sensitive information.

Key Points

• Phishing is a type of social engineering attack often used to steal user data, including login credentials and credit card numbers.

• It occurs when an attacker, masquerading as a trusted entity, dupes a victim into opening an email, instant message, or text message.

• The recipient is then tricked into clicking a malicious link, which can lead to the installation of malware, the freezing of the system as part of a ransomware attack, or the revealing of sensitive information.

• Phishing is one of the oldest and most widespread internet scams, and it continues to be a significant concern in network security.

Additional Information

• Phishing attacks can be conducted through various communication channels including email, social media, phone calls, and text messages.

• Common signs of phishing attempts include unsolicited requests for sensitive information, generic greetings, and suspicious links or attachments.

• To protect against phishing, users should verify the source of unexpected requests, use multi-factor authentication, and keep their software updated.

• Organizations often conduct phishing awareness training to educate employees about recognizing and responding to phishing attempts.

• Reporting phishing attempts to appropriate authorities can help in mitigating the risks and preventing future attacks.

Q126. Answer: (d) A file containing multiple worksheets

The correct answer is 4) A file containing multiple worksheets

Key Points

• An Excel workbook is a file that contains one or more worksheets.

• Each worksheet within a workbook can hold data, charts, and other information.

• Workbooks are used to organize and manage related data in one file, making it easier to analyze and share information.

• Users can add, delete, and rename worksheets within a workbook to suit their needs.

• The .xlsx file extension is typically used for Excel workbooks.

Additional Information

• Excel is a powerful tool for data analysis and visualization, widely used in various fields such as finance, research, and administration.

• Workbooks can contain various types of data, including numbers, text, formulas, and functions.

• Excel provides numerous features for data manipulation, including sorting, filtering, and pivot tables.

• Workbooks can be saved in different formats, such as .xls, .csv, and .pdf, depending on the user's needs.

• Excel also supports collaboration, allowing multiple users to work on the same workbook simultaneously.

Q127. Answer: (d) Ctrl + V

The correct answer is Ctrl + V

Key Points

• The keyboard shortcut Ctrl + V is used to 'Paste' copied content from the clipboard in most Windows applications.

• Other common keyboard shortcuts include Ctrl + C for copying, Ctrl + X for cutting, and Ctrl + Z for undoing the last action.

• These shortcuts are widely used across various applications to enhance productivity and streamline workflow.

• Learning and using keyboard shortcuts can significantly speed up your tasks and improve efficiency.

Additional Information

• Keyboard shortcuts are combinations of keys that provide an alternative way to do something that you'd typically do with a mouse.

• They are especially useful for repetitive tasks, reducing the time required to switch between the keyboard and mouse.

• Most operating systems and software applications support a wide range of keyboard shortcuts, and they can often be customized to suit individual preferences.

• Using keyboard shortcuts can also help reduce the risk of repetitive strain injuries by minimizing the amount of movement needed to perform tasks.

Q128. Answer: (c) To send copies of the email without revealing the other recipients' addresses.

The correct answer is Option 3

Key Points

• The 'BCC' field in email composition is used to send copies of the email without revealing the other recipients' addresses.

• BCC stands for Blind Carbon Copy.

• When you include an email address in the BCC field, the primary recipient and other BCC recipients will not see that email address.

• This feature is useful for maintaining privacy among recipients.

• It helps in preventing an email recipient from seeing the addresses of other recipients, which is particularly useful in business communications.

Additional Information

• Other fields in email composition include 'To', 'CC', and 'Subject'.

• The 'To' field is used for the main recipients of the email.

• The 'CC' (Carbon Copy) field is used to send a copy of the email to additional recipients, whose email addresses are visible to all other recipients.

• Using BCC can help to reduce the chances of recipients' email addresses being harvested for spam.

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Q129. Answer: (b) SMTP (Simple Mail Transfer Protocol)

The correct answer is 2) SMTP (Simple Mail Transfer Protocol)

Key Points

• SMTP (Simple Mail Transfer Protocol) is the protocol used for sending emails.

• It is a part of the application layer of the TCP/IP protocol suite.

• SMTP is used to transfer messages from the sender's email client to the recipient's email server.

• For receiving emails, protocols like IMAP (Internet Message Access Protocol) and POP3 (Post Office Protocol) are commonly used.

• SMTP works in conjunction with these protocols to ensure the complete transmission and reception of email messages.

Additional Information

• SSH (Secure Shell Protocol) is used for secure remote login and other secure network services over an unsecured network.

• FTP (File Transfer Protocol) is used for transferring files between a client and server on a computer network.

• HTTP (Hypertext Transfer Protocol) is used for transmitting hypertext requests and information on the internet.

• Each of these protocols has its specific use case, and they are not interchangeable.

Q130. Answer: (a) Printer

The correct answer is Printer

Key Points

• A Printer is an example of an output device.

• Output devices are used to send data from a computer to another device or user.

• Other examples of output devices include monitors, speakers, and projectors.

• These devices receive data from the computer and translate it into a form that is understandable to the user.

Additional Information

• A Microphone is an example of an input device, which is used to input sound data into the computer.

• A Scanner is also an input device, used to input images or documents into the computer.

• A Mouse is another input device, used for navigating and providing input to the computer's user interface.

• Output devices play a crucial role in the overall functioning of computer systems by providing a way for the computer to communicate information to the user.

Q131. Answer: (a) It executes program instructions by performing calculations and logical comparisons.

The correct answer is 1) It executes program instructions by performing calculations and logical comparisons.

Key Points

• The Arithmetic Logic Unit (ALU) is a critical component of the CPU that executes program instructions by performing calculations and logical comparisons.

• The ALU handles arithmetic operations like addition, subtraction, multiplication, and division.

• It also performs logical operations such as AND, OR, NOT, and XOR, which are essential for decision-making processes in programs.

• By executing these operations, the ALU enables the CPU to process data and run applications effectively.

Additional Information

• The Control Unit (CU) and the ALU together form the CPU's core, where the CU directs the operations and the ALU performs the actual data processing.

• The ALU can be found in various types of processors, including general-purpose CPUs, microcontrollers, and graphics processing units (GPUs).

• Modern CPUs may have multiple ALUs to handle parallel processing tasks, thereby improving performance and efficiency.

• The development and optimization of ALUs have been fundamental in advancing computer technology and enabling more complex computing tasks.

Q132. Answer: (d) Press Ctrl + O.

The correct answer is Press Ctrl + O

Key Points

• Press Ctrl + O is the shortcut to open an existing document in Microsoft Word 2016.

• Using this shortcut will bring up the Open dialog box, allowing you to browse and select the document you want to open.

• This shortcut is a quick and efficient way to access previously created documents without having to navigate through multiple menus.

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• Other common shortcuts in Microsoft Word include Ctrl + S to save a document, Ctrl + P to print a document, and Ctrl + N to create a new document.

Additional Information

• Microsoft Word is a widely used word processing software developed by Microsoft.

• Word allows users to create, edit, format, and print documents.

• It includes various features such as spell check, grammar check, text formatting options, and templates for different types of documents.

• Microsoft Word is part of the Microsoft Office suite, which also includes other productivity tools like Excel, PowerPoint, and Outlook.

• Learning keyboard shortcuts can significantly improve efficiency and productivity when working with Microsoft Word.

Q133. Answer: (b) Win + E

The correct answer is Win + E

Key Points

• Win + E is the keyboard shortcut to open File Explorer in Windows 10.

• File Explorer, previously known as Windows Explorer, is a file management application that is part of the Windows operating system.

• Using the Win + E shortcut quickly opens File Explorer, allowing users to manage files and folders efficiently.

• Other common keyboard shortcuts in Windows include Ctrl + C for copy, Ctrl + V for paste, and Alt + Tab for switching between open applications.

Additional Information

• File Explorer is a crucial tool for navigating the file system in Windows.

• It provides a graphical user interface to access files, folders, and drives on your computer.

• File Explorer also includes features such as file search, quick access to frequently used folders, and the ability to manage network locations.

• In addition to Win + E, other useful Windows shortcuts include Win + D to show the desktop, Win + L to lock the computer, and Win + R to open the Run dialog box.

Q134. Answer: (b) To search and retrieve relevant information from the web.

The correct answer is To search and retrieve relevant information from the web.

Key Points

• To search and retrieve relevant information from the web is the primary purpose of a search engine on the internet.

• Search engines use algorithms to index web pages and provide the most relevant results based on the user's query.

• Popular search engines include Google, Bing, and Yahoo, among others.

• They help users find websites, images, videos, and other content online.

• Advanced search features may include filters for date, type of content, and specific keywords.

Additional Information

• Search engines use web crawlers to gather information from websites.

• They store data in an index to quickly retrieve relevant results.

• Search engine optimization (SEO) is a practice to improve the visibility of a website in search engine results.

• Search engines also offer features like autocomplete to assist users in finding information faster.

• Besides web pages, search engines can also index images, videos, news articles, and academic papers.

• Users can perform advanced searches using operators like quotes for exact phrases, minus sign to exclude words, and site: to search within a specific website.

Q135. Answer: (d) DHCP (Dynamic Host Configuration Protocol)

The correct answer is DHCP (Dynamic Host Configuration Protocol)

Key Points

• DHCP (Dynamic Host Configuration Protocol) is the networking protocol used to assign IP addresses dynamically to devices on a network.

• It allows devices to join a network without the need for manual configuration of IP addresses.

• DHCP operates on a client-server model where the DHCP server assigns an IP address from a defined range to a client device for a specific lease time.

• This protocol simplifies the management of IP addresses in large networks and ensures that IP address conflicts are minimized.

Additional Information

• FTP (File Transfer Protocol) is used for transferring files between computers on a network.

• HTTP (Hypertext Transfer Protocol) is the foundation of data communication for the World Wide Web.

• SMTP (Simple Mail Transfer Protocol) is used for sending emails across networks.

• DHCP is a critical protocol in modern networks, ensuring efficient IP address management and reducing administrative overhead.

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