SSC CHSL Tier-1 2023: Official Paper (Held On: 11 Aug, 2023 Shift 4) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. H is the father of M. M is the brother of C. C is the daughter of I and married to F. D is the daughter of C. Z is the daughter of M.Given H has no brothers or sisters.

How is H related to I?

(a) Husband
(b) Sister
(c) Brother
(d) Son

Q2. Select the number from among the given options that can replace the question mark (?) in the following series.

183, 173, 153, 123, 83, ?

(a) 43
(b) 33
(c) 23
(d) 53

Q3. Which letter-cluster should come in place of ? in the given series based on the English alphabetical order?

HTD, DPZ, ?, VHR, RDN

(a) ZLX
(b) XMW
(c) ZLV
(d) YMV

Q4. In a certain code language, 'WASTE' is coded as '60' and 'BRANDED' is coded as '84'. What is the code for 'CEILINGFANS' in the given code language?

(a) 128
(b) 132
(c) 120
(d) 148

Q5. If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

31 C 48 B 7 D 322 A 23 = ?

(a) 349
(b) 351
(c) 353
(d) 359

Q6. Select the option in which the letter-clusters share the same relationship as that shared by the given pair of letter-clusters.

EAT : IEX

TGX : XKB

(a) NBP : RXT
(b) QMF : UQJ
(c) MIB : RMF
(d) JKM : NPI

Q7. Select the number from among the given options that can replace the question mark (?) in the following series.

71, 74, 72, 75, 73, 76, ?

(a) 75
(b) 74
(c) 77
(d) 78

Q8. Based on the alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which of the following does NOT belong to that group?

(a) KMQ
(b) BDH
(c) YAE
(d) JLN

Q9. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

_QRS_QRSPQ_SPQ_S

(a) PPRR
(b) PQRS
(c) PPQQ
(d) RRSQ

Q10. If 19 June 2001 is Tuesday, then what will be the day of the week on 14 August 2007?

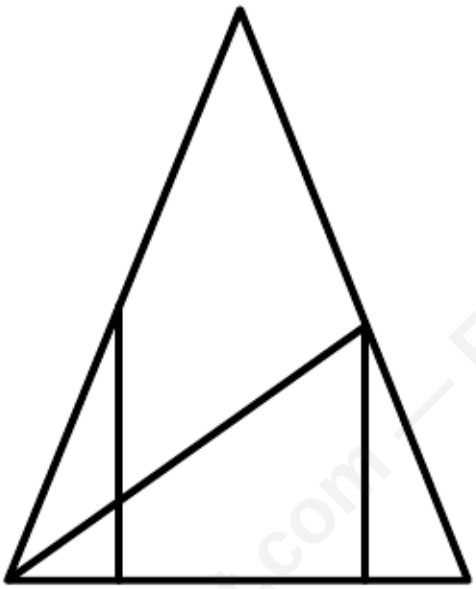
(a) Sunday
(b) Monday
(c) Tuesday
(d) Friday

Q11. OLFE is related to NKED in a certain way based on the English alphabetical order. In the same way, VHNS is related to UGMR. To which of the following is XBOP related following the same logic?

(a) YDRT
(b) YCPQ
(c) WANO
(d) WCNQ

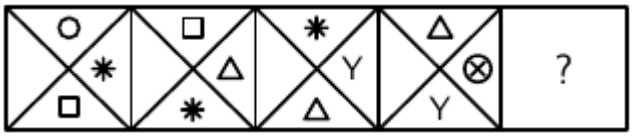
Q12. How many triangles are there in the given figure?

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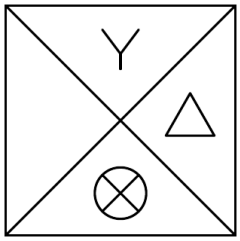


(a) 10
(b) 9
(c) 8
(d) 7

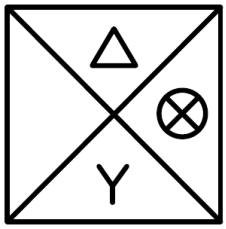
Q13. Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



(a)



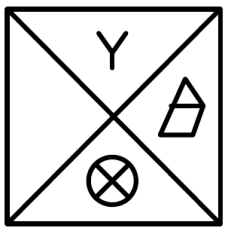
(b)



(c)



(d)



Q14. In a certain code language, ‘DARK’ is coded as ‘3501' and ‘READ’ is coded as ‘1037'. What is the code for ‘K' in the given code language?

(a) 1
(b) 0
(c) 5
(d) 3

Q15. If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

11 B 145 A 29 C 69 D 17 = ?

(a) 107
(b) 109
(c) 101
(d) 111

Q16. The position of how many letters will remain unchanged if each of the letters in the word KINGDOM is arranged in alphabetical order?

(a) Three
(b) None
(c) One
(d) Two

Q17. Select the option in which the numbers do NOT share the same relationship as that shared by the given pairs of numbers.

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

32 : 65 and 35 : 71

(a) 21 : 43
(b) 46 : 93
(c) 17 : 35
(d) 30 : 59

Q18. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All Indians are Americans.

Some Chinese are Americans.

All Chinese are Russians.

Conclusions:

(I) Some Chinese are Indians is a possibility.

(II) No Russian is an Indian.

(III) Some Americans are Russians.

(a) Both conclusions I and II follow

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(b) Only conclusion III follows
(c) Both conclusions I and III follow
(d) Only conclusion I follows

Q19. Select the triad from the below options that has the same analogy as the following triads.

(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)

425 : 85 : 423

315 : 63 : 313

(a) 235 : 47 : 233
(b) 326 : 48 : 472
(c) 152 : 89 : 684
(d) 548 : 62 : 631

Q20. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the option in which the numbers are related in the same way as are the numbers of the following pairs.

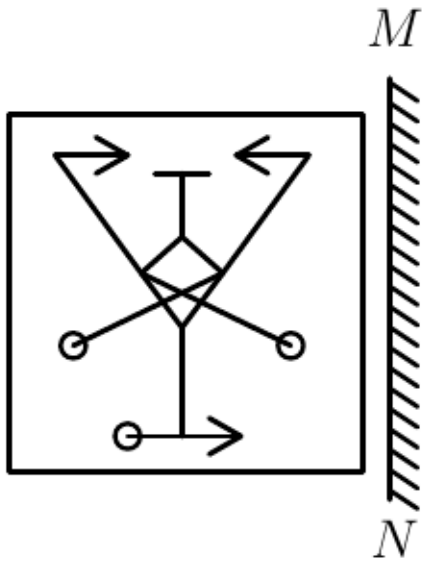
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is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

16, 99

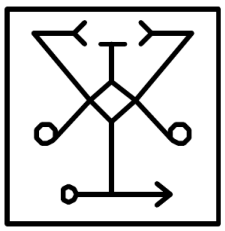
13, 81

(a) 9, 57
(b) 8, 42
(c) 11, 74
(d) 17, 115

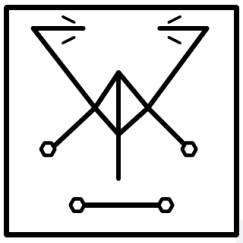
Q21. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.



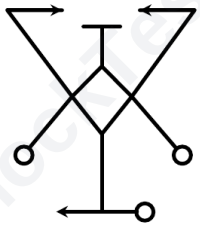
(a)



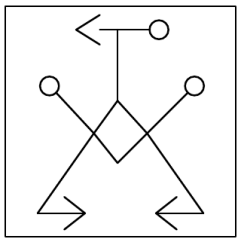
(b)



(c)



(d)



Q22. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

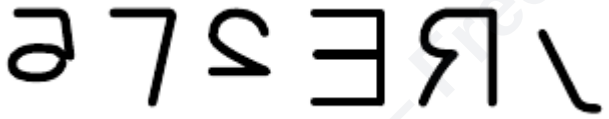


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(a)



(b)



(c)



(d)



Q23. R is the father of P, P is the sister of Q, Q is the grandson of T, S is the only child of M, M is married to T, R is married to S. How is S related to P?

(a) Sister
(b) Daughter
(c) Mother's mother
(d) Mother

Q24. 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?

(1) 4 - 27
(2) 6 - 125
(3) 7 - 216
(4) 5 - 63

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

Q25. Select the word-pair that does NOT represent a similar relationship to the one expressed in the pair 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.)

Astonishing : Incredible

(a) Clarify : Elaborate
(b) Descend : Ascend
(c) Stop : Terminate
(d) Brave : Fearless

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GENERAL INTELLIGENCE

Q26. According to the Census of India 2011, what is the literacy rate among the male population in India?

(a) 74.04%
(b) 90.01%
(c) 65.46%
(d) 82.14%

Q27. Which of the following Provisions of the Indian Constitution is taken from the US Constitution?

(a) Post of vice president
(b) Fundamental duties
(c) Procedure for amendment of constitution
(d) Bicameralism

Q28. In October 2022, Harmanpreet Singh, who was honoured with the Player of the Year award is related to _____.

(a) hockey
(b) badminton
(c) cricket
(d) football

Q29. What is the nominal GDP if the real GDP is 500 and the price index is 150?

(a) 650
(b) 450
(c) 750
(d) 350

Q30. How many digits does the MMID code of any commercial bank have?

(a) 7
(b) 10
(c) 12
(d) 8

Q31. What are the events in powerlifting?

(a) Squats, bench press and dead lift
(b) Squats, lat pull down and curl
(c) Curls, bench press and squat
(d) Curls, over arm lift and dead lift

Q32. Identify the correct match.

A) Pension to retired government employees - Revenue Receipt
B) Purchase of Machinery in Railways - Capital Expenditure

(a) Both A and B
(b) Only A
(c) Neither A nor B
(d) Only B

Q33. The IUPAC name of an element is Unnilennium. What is the symbol of the element?

(a) Une
(b) Unl
(c) Unm
(d) Unu

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Q34. By what name did Vinayak Savarkar form a secret organization of revolutionaries in the year 1904?

(a) Hinduastan Republic Association
(b) Naujawan Bharat Sabha
(c) Abhinav Bharat
(d) Forward Bloc

Q35. Which of the following has Kharif crops only?

(a) Maize and peas
(b) Barley and gram
(c) Cotton and paddy
(d) Paddy and mustard

Q36. In November 2022, Manika Batra created history by becoming the first Indian woman paddler to win a bronze medal in which event?

(a) Euro-Asia Cup
(b) Pan America Table Tennis Cup
(c) ITTF-AATU Asian Cup
(d) Table Tennis World Cup

Q37. Which of the following is an open-pit copper mine?

(a) Malanjkhand
(b) Bastar
(c) Singhbhum
(d) Ballari

Q38. Mopin is an agricultural festival celebrated in the state of _____.

(a) Bihar
(b) Arunachal Pradesh
(c) West Bengal
(d) Himachal Pradesh

Q39. On April 21, 2023, which state assembly passed a bill amending the Factories Act 1948, for flexible working hours and extending factory workers 'working hours from 8 to 12 hours?

(a) Bihar Assembly
(b) Tamil Nadu Assembly
(c) Punjab Assembly
(d) Kerala Assembly

Q40. The minimum distance of distinct vision for a young adult person with no defect in eyes is:

(a) 20 m
(b) 25 cm
(c) 20 cm
(d) 25 m

Q41. Nati is the folk dance of which of the following Indian states?

(a) Jharkhand
(b) Arunachal Pradesh
(c) Gujarat
(d) Himachal Pradesh

Q42. Which of the following classification bases of industry applies to the products - cotton, jute, wool, silk textile, rubber, tea, sugar, coffee, and edible oil?

(a) Key industries
(b) Consumer industries
(c) Agro based industries

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(d) Mineral based industries

Q43. In the 1930s, which of the following theories was propounded by Arthur Holmes about the mantle?

(a) Theory of Faunal Succession
(b) Slab Pull Theory
(c) Convectional Current Theory
(d) Theory of Faulting

Q44. Who composed 'Shahnama'?

(a) Abdulla
(b) Alberuni
(c) Ferdowsi
(d) Utbi

Q45. Manju Barggavee was awarded the Sangeet Natak Akademi Award 2019 for her contribution to which Indian classical dance?

(a) Kathak
(b) Bharatanatyam
(c) Kuchipudi
(d) Mohiniyattam

Q46. The Harbour phase of the 29^(th) edition of the Singapore-India Maritime Bilateral Exercise (SIMBEX)-2022, hosted by the Indian Navy, was held at:

(a) Guwahati
(b) Kolkata
(c) Kochi
(d) Vishakhapatnam

Q47. X has been exercising his freedom of trade in Chennai to earn his livelihood.

Such kind of freedom is provided in which of the following Articles of the Indian Constitution?

(a) Article 18
(b) Article 19
(c) Article 17
(d) Article 16

Q48. Rabindra Sangeet is associated with:

(a) Rabi
(b) Ravindra Jain
(c) Rabindranath Tagore
(d) Ravi Shankar

Q49. Which of these is one of the seven priorities adopted in the Union Budget for the fiscal year 2023-24?

(a) Gender equality
(b) Zero poverty
(c) Inclusive development
(d) Zero hunger

Q50. Which of the following nutrients is available mainly in apples?

(a) Co
(b) Na
(c) K
(d) S

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QUANTITATIVE APTITUDE

Q51. If sin θ + tan θ = p and tan θ - sin θ = q, then which of the relation satisfies for given values of p and q?

(a) $p^2-q^2=4\sqrt{pq}$
(b) $p^2-q^2=8\sqrt{pq}$
(c) $p^2+q^2=4\sqrt{pq}$
(d) $p^2+q^2=4pq$

Q52. A fruit seller buys 480 bananas for Rs. 1,200. Some of these bananas are rotten and hence, they are thrown away. He sells the remaining bananas at Rs. 3.5 each and makes a profit of Rs. 396. What is the percentage of bananas thrown away?

(a) 6%
(b) 4.5%
(c) 5%
(d) 4%

Q53. On an item having a marked price of Rs. 500, Ravi was offered successive discounts of 36% and 5%, respectively, while Prabhat was offered a single discount of 40%. Who paid more for the item and by how much?

(a) Ravi, Rs. 4
(b) Prabhat, Rs. 5
(c) Ravi, Rs. 5
(d) Prabhat, Rs. 4

Q54. If θ is an acute angle and sin θ = 21/25, then what is the value of tan θ?

(a) $2\sqrt{46}/21$
(b) $25/2\sqrt{46}$
(c) $21/2\sqrt{46}$
(d) $2\sqrt{46}/25$

Q55. The simple interest on a sum of money in 6 years at the rate of 15% per annum is Rs. 1,440 less than the simple interest accrued on the same sum in 9 years at 18% per annum. What is the sum of money (in Rs.)?

(a) 1,800
(b) 2,000
(c) 2,700
(d) 2,400

Q56. Simplify the given expression.

(3(sin ^4z-cos ^4z+1))/(sin²z)

(a) 9
(b) 2
(c) 4
(d) 6

Q57. The remainder of the term 9 + 9² +..+ 9^((2n+1)) when divided by 6 is:

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

Q58. If a - b = 9 and ab = 20, then $a^2 + b^2$:

(a) 111
(b) 115
(c) 121
(d) 118

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Q59. A metallic sphere of radius 21 cm is melted and then recast into smaller cones each with a radius of 7 cm, and a height of 3 cm. Find the number of cones obtained.

(a) 225
(b) 325
(c) 522
(d) 252

Q60. An item was sold at Rs. 5,474 after two successive discounts of 12.5% and 8% were offered on its Marked Price. What was the Marked Price (in Rs.) of the item?

(a) 6,750
(b) 7,000
(c) 6,800
(d) 6,600

Q61. Two jars A and B are containing the solutions of two liquids P and Q. The ratio of the liquids P and Q in the jars A and B are 2 : 19 and 1 : 11, respectively. If 7 litres of the solution of jar A and 4 litres of the solution of jar B are mixed, what is the ratio of the solutions P and Q in the new mixture?

(a) 10 : 1
(b) 1 : 9
(c) 9 : 1
(d) 1 : 10

Q62. In a ΔPMN, S is a point on PM which divides PM in the ratio of 5 : 7. The line segment ST is parallel to MN. If MN = 24 cm, then what is the length (in cm) of segment ST?

(a) 16
(b) 17
(c) 14
(d) 10

Q63. If x+1/x=2, then the value of x^{11}+1/(x^(20)) is:

(a) 0
(b) 1
(c) 2
(d) 7

Q64. The data given in the table shows the number of boys and girls enrolled for different games in an academy over 5 years.

Years	**Basketball**	**Football**	**Cricket**			
Boys	Girls	Boys	Girls	Boys	Girls	
2018	46	34	42	37	45	35
2019	40	41	44	38	42	32
2020	43	40	40	32	44	38
2021	37	44	43	25	34	28
2022	34	41	41	32	41	39

Which game has the maximum enrollment and during which year?

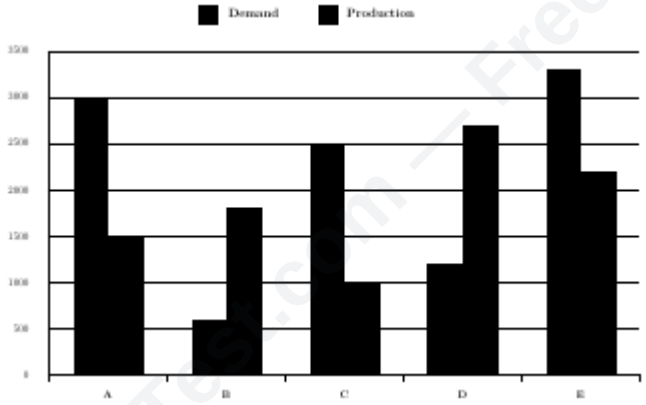
(a) Cricket in 2020
(b) Basketball in 2019
(c) Football in 2019
(d) Basketball in 2020

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Q65. A chord is drawn in a circle of radius 10 cm, if the distance of the chord from the centre is 6 cm, then the length of the chord (in cm) is:

(a) 10
(b) 12
(c) 16
(d) 8

Q66. Study the following graph carefully and answer the questions given below it.



The demand for company B is approximately what per cent of the demand for company C?

(a) 25%
(b) 23%
(c) 20%
(d) 24%

Q67. A sum of Rs. 10,000 was invested at a rate of 10% per annum for a period of 2 years, compounded half-yearly. Find the compound interest.

(a) Rs. 2,151.0625
(b) Rs. 2,055
(c) Rs. 2,255
(d) Rs. 2,155.0625

Q68. Three persons A, B and C invested some money in a business. The share of A is twice the share of B, and the share of B is thrice the share of C. After 1 year, they earned Rs. 6,000. Find the money A received.

(a) Rs. 3,200
(b) Rs. 3,000
(c) Rs. 3,600
(d) Rs. 3,500

Q69. If $ax + by = 1$ and $bx + ay = 2ab/(a^2+b^2)$, then the value of x (in terms of a and b) is:

(a) $2b/(a^2+b^2)$
(b) $a/(a^2+b^2)$
(c) $b/(a^2+b^2)$
(d) $2a/(a^2+b^2)$

Q70. After allowing a discount of 12.5% on the marked price, an article is sold for Rs. 2,625. Find its marked price.

(a) Rs. 2,975
(b) Rs. 2,900
(c) Rs. 2,950
(d) Rs. 3,000

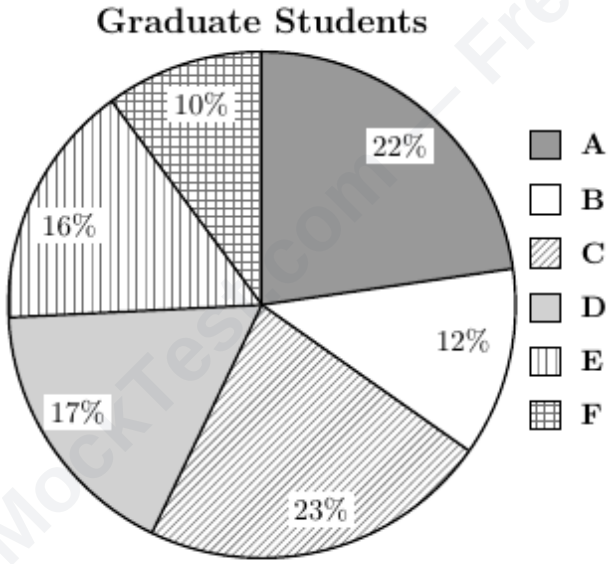
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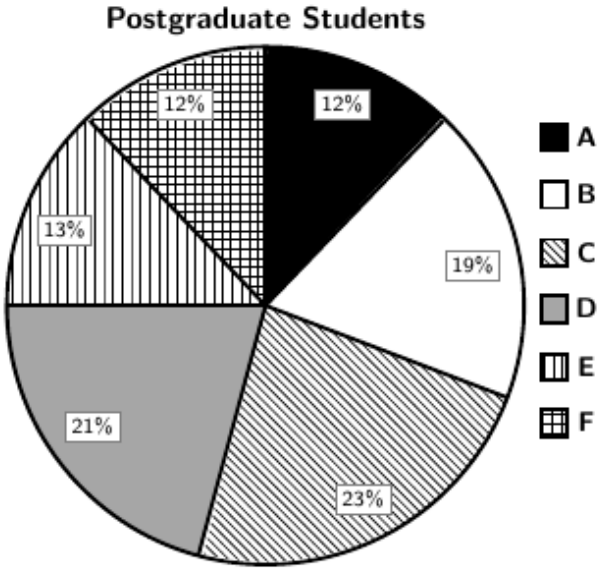
Q71. If 18 mechanics can repair 90 cars in 10 days, how many mechanics will be required to repair 150 cars in 12 days?

(a) 25
(b) 30
(c) 20
(d) 27

Q72. Study the given pie-charts and answer the question that follows.

The pie-charts show the details of graduate and post graduate students of the Universities A, B, C, D, E, F.





If the total number of graduates across all universities is 24,800 and that of postgraduates is 18,400, then the ratio of the graduates in the universities A and E together to the postgraduates in the universities B and C will be:

(a) 249 : 131
(b) 589 : 483
(c) 128 : 269
(d) 358 : 249

Q73. Savitha and Parnika decided to run a 2250 m long race on a track as long as the length of the race. But Savitha gave Parnika a 396 m head start and also allowed her to start 9 seconds before Savitha started running. Parnika ran at 6 m per second and Savitha caught up with Parnika 250 seconds after Savitha started running. What was Savitha's speed (in m/s) during the race?

(a) 7.2
(b) 7.8
(c) 8
(d) 7.5

Q74. Two circles with centres A and B touch each externally, PQ is a direct common tangent which touches the circle at P and Q. If the radii of the circles 9 cm and 4 cm, respectively, then the length of PQ (in cm) is equal to:

(a) 5
(b) 13
(c) 6.5
(d) 12

Q75. AB and BC are two chords of a circle with centre O. Both chords are on either side of the centre O. Point A and point C are connected to the centre O, such that angle BAO = 36° and angle BCO = 48°. What is the degree measure of the angle subtended by the minor arc AC at the centre O?

(a) 136°
(b) 144°
(c) 120°
(d) 168°

GENERAL AWARENESS

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

The shareholders are planning to _____ control of the company from the current directors.

(a) roost
(b) roast
(c) wrest
(d) rest

Q77. Identify the INCORRECTLY spelt word in the following sentence.

Research has proved that meteors have largely destructed and impackted earth.

(a) impackted
(b) Research
(c) proved
(d) destructed

Q78. Select the most appropriate option that can substitute the underlined words in the given sentence.

No less than eight pedestrians were killed in the accident.

(a) No few than
(b) None less than
(c) No fewer than
(d) No lesser than

Q79. Select the most appropriate ANTONYM of the given word from the following sentence.

Leisure

He was relaxing and enjoying last week in Spain but now he is working hard for the firm.

(a) enjoying
(b) working
(c) relaxing
(d) hard

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Q80. Select the option that expresses the following sentence in active voice.

A remarkable discovery was made by the scientist.

(a) The scientist made a remarkable discovery.
(b) The discovery made by the scientist was remarkable.
(c) The remarkable scientist made a discovery.
(d) A remarkable discovery is made by the scientist.

Q81. 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.

He speaks pleasantly / with her yesterday / evening but not today.

(a) He speaks pleasantly
(b) with her yesterday
(c) No error
(d) evening but not today.

Q82. Given below are four jumbled sentences. Select the option that gives their correct logical sequence.

A) The young lion tore through the formation and decimated the enemy lines.
B) The enemy soldiers panicked and started killing each other.
C) It is said that he used a weapon with a hallucinating agent that created a chimera of hundreds of Abhimanyus.
D) Seeing the rout they were facing, young Abhimanyu led a powerful counterattack.

(a) CDAB
(b) DACB
(c) ACBD
(d) ABCD

Q83. Select the option that can be used as a one-word substitute for the given group of words.

A person who does not believe in the existence of God

(a) Atheist
(b) Priest
(c) Theist
(d) Satan

Q84. Select the most appropriate active form of the given sentence.

The movie was directed by the famous filmmaker and produced by the studio.

(a) The famous filmmaker directed the movie and the studio produced it.
(b) The movie was being directed by the famous filmmaker and produced by the studio.
(c) The movie was directed and produced by the famous filmmaker and the studio.
(d) The famous filmmaker and the studio collaborated to make the movie.

Q85. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Though Ravi is silent and reserved, he has got a finger in every pie.

(a) special interest in certain things
(b) involved in many things
(c) an opinion of his own
(d) a cold attitude toward everything

Q86. Select the option with the correct spellings to replace the underlined words in the given sentence.

He exhibitad his senseles behaviour at that conference.

(a) exhibited; sanseless
(b) exhibited; senseless
(c) exibited; senseless
(d) exhebited; sanseless

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Q87. Select the most appropriate synonym of the underlined word in the given sentence.

She became frantic as she lost her purse on the busy streets of the markets.

(a) Hectic
(b) Composed
(c) Audacious
(d) Agitated

Q88. Select the most appropriate option that can substitute the underlined words in the given sentence.

How do you think the internet has influenced how we utilise news and media?

(a) has managed the patterns we ingest
(b) has revoked the way we interact
(c) has maintained how we receive
(d) has impacted the way we consume

Q89. Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

(P) and the challenges faced in its
(Q) the report discusses
(R) the state of renewable energy
(S) implementation along with potential solutions

(a) QSRP
(b) QRPS
(c) RQPS
(d) PQRS

Q90. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Meenakshi called out for the neighbourhood to get support for her campaign.

(a) called by the neighbourhood
(b) called of the neighbourhood
(c) called in the neighbourhood
(d) called around the neighbourhood

Q91. Select the most appropriate synonym of the given word.

Indispensable

(a) Destructive
(b) Imperative
(c) Drastic
(d) Invariable

Q92. Select the most appropriate synonym of the given word.

Soothe

(a) More
(b) Pacify
(c) Instigate
(d) Escalate

Q93. Select the most appropriate option that can substitute the underlined words in the given sentence.

After he let the cat out of the bag about the surprise party, it was no longer a secret.

(a) murmur in the ears
(b) reveal a confidential information
(c) show off to his friends
(d) take the gifts and brag

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

Fervour

(a) Apathy
(b) Hatred
(c) Enthusiasm
(d) Disgust

Q95. Select the most appropriate option that can substitute the underlined segment in the given sentence.

He tends to put off doing his work until the last minute, leaving important tasks unfinished and causing himself unnecessary stress.

(a) decline
(b) adjourn
(c) procrastinate
(d) dwindle

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.

If there was such a thing as perfect food, eggs would be a _____ (1)____. They are readily available, easy to cook, affordable and packed ____ (2) ____ protein. An egg is meant to be something that has all the right ingredients to grow an organism, so obviously, it is very nutrient-dense. Eating eggs alongside other food can ____ (3) ____ our bodies absorb more vitamins too. For example, one study found that adding an egg to a salad can increase how much vitamin E we get from the salad. But for decades, eating eggs has also been controversial due to their ____ (4) ____ cholesterol content—which some studies have linked to an increased risk of heart disease. Cholesterol, a yellowish fat produced in our liver and intestines, can be found in every one of our body's cells. We ____ (5) _____ think of it as ‘bad’. But cholesterol is a crucial building block in our cell membranes. It also is needed for the body to make vitamin D and the hormones testosterone and oestrogen.

Q96. Select the most appropriate option to fill in blank number 1.

(a) contender
(b) compete
(c) contend
(d) quickly

Q97. Select the most appropriate option to fill in blank number 2.

(a) for
(b) with
(c) on
(d) at

Q98. Select the most appropriate option to fill in blank number 3.

(a) interrogate
(b) abate
(c) questioned
(d) help

Q99. Select the most appropriate option to fill in blank number 4.

(a) low
(b) medium
(c) ideal
(d) high

Q100. Select the most appropriate option to fill in blank number 5.

(a) normally
(b) remotely
(c) excitedly

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(d) intermittently

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) Husband

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

Clearly, H is husband of I.

Hence, 'Husband' is the correct answer.

Q2. Answer: (b) 33

The logic followed here is:

Hence, '33' is the correct answer.

Q3. Answer: (c) ZLV

The logic followed here is:

Hence, 'ZLV' is the correct answer.

Q4. Answer: (b) 132

The logic followed here is:

Logic: Number of letters in the given word × 12 = Code for the word

'WASTE' is coded as '60'

• 5 × 12 = 60

'BRANDED' is coded as '84'

• 7 × 12 = 84

Similarly,

'CEILINGFANS'

• 11 × 12 = 132

Hence, '132' is the correct answer.

Q5. Answer: (c) 353

Letter	A	B	C	D
Meaning	÷	×	•	•

After replacing the letters by their meaning, we get:

31 + 48 × 7 - 322 ÷ 23 = ?

=> 31 + 48 × 7 - 14 = ?

=> 31 + 336 - 14 = ?

=> 367 - 14 = ?

=> 353 = ?

Hence, '353' is the correct answer.

Q6. Answer: (b) QMF : UQJ

The logic followed here is:

• • Similarly,

• Hence, 'QMF : UQJ' is the correct answer.

Q7. Answer: (b) 74

The logic followed here is:

Hence, '74' is the correct answer.

Q8. Answer: (d) JLN

The logic followed here is:

Logic: First letter + 2 = Second letter; Second letter + 4 = Third letter

1. KMQ → K + 2 = M; M + 4 = Q
2. BDH → B + 2 = D; D + 4 = H
3. YAE → Y + 2 = A; A + 4 = E
4. JLN → J + 2 = L; L + 2 = N

Hence, 'JLN' is the correct answer.

Q9. Answer: (a) PPRR

The logic followed here is:

1. PRRP → PQRS / PQRS / PQRS / PQRS
2. PQRS → PQRS / QQRS / PQRS / PQSS
3. PPQQ → PQRS / PQRS / PQQS / PQQS
4. RRSQ → RQRS / RQRS / PQSS / PQQS

• In option 1, PQRS is repeated.

Hence, 'PPRR' is the correct answer.

Q10. Answer: (c) Tuesday

An ordinary year has 1 odd day and a leap year has 2 odd days.

So, the day on the same date for an ordinary year will be 1 day ahead and the day on the same date for a leap year will be 2 days ahead for the next year.

If 19 June 2001 is Tuesday, then the day on these dates will be:

19 June 2002 → Wednesday

19 June 2003 → Thursday

19 June 2004 → Saturday

19 June 2005 → Sunday

19 June 2006 → Monday

19 June 2007 → Tuesday

Number of days between 19 June 2007 to 14 August 2007 = (11 + 31 + 14) = 56

56 when divided by 7, we get 0 as remainder.

Tuesday + 0 = Tuesday

Therefore, it will be Tuesday on 14 August 2007.

Hence, 'Tuesday' is the correct answer.

Q11. Answer: (c) WANO

The logic followed here is:

• • Similarly,

• Hence, 'WANO' is the correct answer.

Q12. Answer: (c) 8

The number of triangles in the figure is shown below:

Hence, '8' is the correct answer.

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Q13. Answer: (d) [figure]

The logic followed in the given figure series is:

From Figure (1) to (2):

The shapes are moving as shown below and the upper shape (Circle) changes into the other shape (Triangle).

From Figure (2) to (3):

The shapes are moving as shown below and the upper shape (Rectangle) changes into the other shape (Y).

From Figure (3) to (4):

The shapes are moving as shown below and the upper shape changes into the other shape.

From Figure (4) to Answer Figure:

The shapes are moving as shown below and the upper shape (Triangle) changes into the other shape.

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

Q14. Answer: (c) 5

The code for each letter is shown below:

Clearly, '5' is the code for ‘K' in the given code language.

Hence, '5' is the correct answer.

Q15. Answer: (a) 107

Letter	A	B	C	D
Meaning	÷	×	•	•

After replacing the letters by their meaning, we get:

11 × 145 ÷ 29 + 69 - 17 = ?

=> 11 × 5 + 69 - 17 = ?

=> 55 + 69 - 17 = ?

=> 124 - 17 = ?

=> 107 = ?

Hence, ‘107’ is the correct answer.

Q16. Answer: (b) None

The position of letters which will remain unchanged if each of the letters in the word KINGDOM is arranged in alphabetical order is shown below:

Clearly, none of the letters have their position unchanged.

Hence, ‘None’ is the correct answer.

Q17. Answer: (d) 30 : 59

The logic followed here is:

Logic: (First number × 2) + 1 = Second number

• 32 : 65 → (32 × 2) + 1 = 64 + 1 = 65

• 35 : 71 → (35 × 2) + 1 = 70 + 1 = 71

Similarly,

1. 21 : 43 → (21 × 2) + 1 = 42 + 1 = 43

2. 46 : 93 → (46 × 2) + 1 = 92 + 1 = 93

3. 17 : 35 → (17 × 2) + 1 = 34 + 1 = 35

4. 30 : 59 → (30 × 2) + 1 = 60 + 1 = 61 ≠ 59

Hence, '30 : 59' is the correct answer.

Q18. Answer: (c) Both conclusions I and III follow

The least possible Venn diagram is:

Conclusions:

(I) Some Chinese are Indians is a possibility. → Follows (As, there is no definite relation between Chinese are Indians, it is possible that some Chinese are Indians)

(II) No Russian is an Indian. → Does not follow (As, there is no definite relation between Russian and Indian. Hence, false)

(III) Some Americans are Russians. → Follows (As, Some Chinese are Americans and All Chinese are Russians, which implies

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some Americans are Russians)

Hence, 'Both conclusions I and III follow' is the correct answer.

Q19. Answer: (a) 235 : 47 : 233

The logic followed here is:

Logic: First number ÷ 5 = Second number and First number - 2 = Third number

• 425 : 85 : 423 → 425 ÷ 5 = 85 and 425 - 2 = 423

• 315 : 63 : 313 → 315 ÷ 5 = 63 and 315 - 2 = 313

Similarly,

• 235 : 47 : 233 → 235 ÷ 5 = 47 and 235 - 2 = 233

Hence, '235 : 47 : 233' is the correct answer.

Q20. Answer: (a) 9, 57

The logic followed here is: (First number × 6) + 3 = Second number.

For, 16, 99

(16 × 6) + 3

96 + 3 = 99

99 = Second number.

For, 13, 81

(13 × 6) + 3

78 + 3 = 81

81 = Second number.

Similarly,

9, 57

(9 × 6) + 3

54 + 3 = 57

57 = Second number.

So, the correct pair of number is 9, 57.

Hence, the correct answer is 'Option 1'.

Q21. Answer: (c) [figure]

The correct mirror image of the given figure when the mirror is placed at MN is shown below:

Hence, 'option 3' is the correct answer.

Q22. Answer: (b) [figure]

The correct mirror image of the given figure when the mirror is placed at MN is shown below:

Hence, 'option 2' is the correct answer.

Q23. Answer: (d) Mother

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

Clearly, S is the mother of P.

Hence, 'Mother' is the correct answer.

Q24. Answer: (c) 4

The logic followed here is:

Logic: (First number - 1)^3 = Second number

1. 4 - 27 → (4 - 1)^3 = 3^3 = 27

2. 6 - 125 → (6 - 1)3 = 53 = 125

3. 7 - 216 → (7 - 1)3 = 63 = 216

4. 5 - 63 → (5 - 1)3 = 43 = 64 ≠ 63

Hence, '4' is the correct answer.

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Q25. Answer: (b) Descend : Ascend

The logic followed here is:

Logic: Words are synonyms of each other.

• Astonishing : Incredible → Astonishing is synonym of Incredible.

But,

• Descend : Ascend → Descend is antonym of Ascend.

Hence, 'Descend : Ascend' is the correct answer.

Q26. Answer: (d) 82.14%

The correct answer is 82.14%.

Key Points

• The literacy rate among the male population in India has shown a steady increase over the years.

• In 2001, it was 75.26%, and in 2011, it increased to 82.14%.

• The literacy rate among males is higher than that of females in India.

• According to the same census report, the literacy rate among the female population in India is 65.46 %.

Additional Information

• 74.04 is the literacy rate among the total population of India, which includes both males and females.

• The literacy rate is defined as the percentage of the population aged seven years and above who can read and write with understanding.

• Literacy is an important indicator of a country's development, and higher literacy rates are associated with better economic and social outcomes.

Q27. Answer: (a) Post of vice president

The correct answer is the Post of vice president.

Key Points

• The provision of the post of vice president in the Indian Constitution is taken from the US Constitution.

• The vice president of India is the second-highest constitutional office in the country and is elected indirectly by an Electoral College consisting of members of both houses of Parliament.

• The US Constitution also provides for a vice president who serves as the second-in-command to the President and is elected through a similar Electoral College system.

• The Indian Constitution also draws inspiration from other constitutions, such as the British Constitution, the Irish Constitution, and the Australian Constitution.

Additional Information

• Fundamental duties are a unique provision of the Indian Constitution that was added through the 42^(nd) Amendment in 1976.

• It imposes certain obligations on citizens to uphold the sovereignty, unity, and integrity of India, and to promote harmony and the spirit of common brotherhood among all people.

• The procedure for amendment of constitution is also a unique provision of the Indian Constitution that outlines the steps required to amend the Constitution.

• It requires a special majority of both houses of Parliament, as well as ratification by at least half of the state legislatures.

• Bicameralism refers to the division of the legislature into two houses - the Lok Sabha and the Rajya Sabha in the case of India.

• This is not a provision that is taken from the US Constitution, as the US has a unicameral legislature consisting of a single House of Representatives and a Senate.

Q28. Answer: (a) hockey

The correct answer is hockey.

Key Points

• Harmanpreet Singh is related to hockey and was honoured with the Player of the Year award in October 2022.

• He is an Indian professional field hockey player who plays as a defender for the Indian national team.

• Harmanpreet Singh has represented India in several international tournaments including the Olympics, Commonwealth Games, and Asian Games.

• He was also a part of the Indian team that won the FIH Junior World Cup in 2016.

Additional Information

• Hockey is a popular sport in India and the Indian men's hockey team has won 8 Olympic gold medals, the most recent being in Tokyo 2020.

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• Known as one of the best field hockey players of all time, Dhyan Chand was an Indian athlete.

• Badminton is another popular sport in India and has produced many world-class players such as Saina Nehwal, PV Sindhu, and Kidambi Srikanth.

• Cricket is the most popular sport in India and the Indian cricket team is one of the top teams in the world.

• The team has won 2 ODI World Cups and 1 T20 World Cup.

• Football is also gaining popularity in India, with the Indian Super League being a major professional league in the country.

• However, the Indian national football team is not ranked highly in the FIFA rankings.

Q29. Answer: (c) 750

The correct answer is 750.

Key Points

• In this question, the real GDP is given as 500 and the price index is given as 150.

• To calculate the nominal GDP, we need to multiply the real GDP by the price index and divide by 100.

• Hence, the nominal GDP would be (500 x 150) / 100 = 750.

• Therefore, the correct answer is 750.

Additional Information

• Nominal GDP refers to the monetary value of all final goods and services produced within a country's borders during a specified period.

• Real GDP is an inflation-adjusted measure of a country's economic output.

• GDP calculates the monetary worth of finished goods and services—those purchased by the end user—that are generated in a nation during a specific time period.

Q30. Answer: (a) 7

The correct answer is 7.

Key Points

• The MMID code of any commercial bank has 7 digits.

• MMID stands for Mobile Money Identifier.

• It is a unique 7-digit code assigned by banks to their customers for mobile banking transactions.

Additional Information

• Every mobile banking account has a distinct MMID that the bank assigns to the user.

• There can only be one MMID Code associated with a bank account.

• To transfer money using this function, an MMID is required for both the sender and the recipient.

• To take advantage of this service, one must register for mobile banking services with your bank.

Q31. Answer: (a) Squats, bench press and dead lift

The correct answer is Squats, bench press and dead lift.

Key Points

• Powerlifting is a strength sport that involves lifting as much weight as possible in three different exercises: squats, bench press, and deadlift.

• These exercises are collectively known as the "big three" in powerlifting.

• Squats involve lifting a barbell on your shoulders and lowering your body until your thighs are parallel to the ground.

• This exercise primarily targets your quadriceps, glutes, and hamstrings.

• Bench press involves lying on a bench and lifting a barbell off a rack, lowering it to your chest, and then pressing it back up.

• This exercise primarily targets your chest, shoulders, and triceps.

• Deadlift involves lifting a barbell off the ground and standing up with it.

• This exercise primarily targets your lower back, glutes, and hamstrings.

Additional Information

• The sport known as "odd lifts" gave rise to powerlifting.

• It was based on the same three-attempt pattern but featured a wider range of events, similar to strongman competition.

• Odd lifts eventually became the current three standard lifts.

• Lifts may be performed equipped or unequipped during competition.

• In this context, "equipment" is a supporting bench shirt, briefs, or a squat/deadlift suit.

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Q32. Answer: (d) Only B

The correct answer is Only B.

Key Points

• The purchase of machinery in Railways is a Capital Expenditure as it involves the acquisition of a fixed asset that will be used over a period of time to generate revenue for the Railways.

• Capital Expenditure refers to the expenditure incurred on acquiring or improving fixed assets such as land, buildings, machinery, etc.

Additional Information

• Revenue Expenditure refers to the expenditure incurred on the day-to-day running of the business or government.

• They are essentially the same as operating expenses (OPEX) because they comprise all of the costs necessary to cover the business's present operating costs.

• Pension to retired government employees is a Revenue Expenditure as it is a recurring expense for the government.

Q33. Answer: (a) Une

The correct answer is Une.

Key Points

• Unnilennium is the IUPAC name for the element with atomic number 109.

• The symbol for Unnilennium is Une, which is derived from the Latin word "unus" meaning one, and the French word "neuf" meaning nine.

• Ds is the symbol for the element with atomic number 110, which is known as Darmstadtium.

Additional Information

• IUPAC stands for International Union of Pure and Applied Chemistry, which is the organization responsible for developing and maintaining the naming conventions for chemical elements.

• The naming convention for elements involves using a combination of letters, often derived from the element's name or its discoverer's name, along with a unique atomic number.

• Unnilennium is a hypothetical element that has not yet been discovered or synthesized in a laboratory.

Q34. Answer: (c) Abhinav Bharat

The correct answer is Abhinav Bharat.

Key Points

• Vinayak Savarkar formed a secret organization of revolutionaries called Abhinav Bharat in the year 1904.

• First established as "Mitra Mela" in Nasik, it was Vinayak Savarkar's final year at Fergusson College in Pune.

• Following a few assassinations of British officials, the Savarkar brothers were found guilty and sentenced to prison.

• In 1952, the society was formally dissolved.

Additional Information

• Hindustan Republic Association was formed by Sachindra Nath Sanyal.

• It was founded in 1924.

• Naujawan Bharat Sabha was founded in the year 1926, Bhagat Singh founded the Naujawan Bharat Sabha whose aim was to encourage revolution against British Rule by rallying the peasants and the workers.

• Forward Bloc was a political party formed by Subhas Chandra Bose.

• It was founded in 1939.

Q35. Answer: (c) Cotton and paddy

The correct answer is Cotton and paddy.

Key Points

• Kharif crops are those crops that are sown in the rainy season and harvested in the winter season.

• They require high rainfall and warm temperature for their growth.

• Cotton and paddy are two major Kharif crops that are widely grown in India.

Additional Information

• Maize and peas are not Kharif crops.

• Maize is a summer crop, while peas are grown in both Kharif and Rabi seasons.

• Barley and gram are Rabi crops.

• These are sown in the winter season and harvested in the summer season.

• Mustard is also a Rabi crop.

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• It is grown in the winter season.

Q36. Answer: (c) ITTF-AATU Asian Cup

The correct answer is the ITTF-AATU Asian Cup.

Key Points

• Manika Batra won a bronze medal in the ITTF-AATU Asian Cup in November 2022.

• This event is one of the most prestigious table tennis tournaments in Asia.

• The event featured top players from different countries in Asia, including China, Japan, and South Korea.

• Manika Batra's historic achievement has put India on the map of table tennis and has inspired many young players in the country.

Additional Information

• Euro-Asia Cup is a team table tennis event where players from Europe and Asia compete against each other.

• Compared to Europe's three victories, Asia has won the competition nine times.

• Pan America Table Tennis Cup is a regional tournament for players from North, Central, and South America.

• There are events for both men and women who are single.

• Each tournament can have a maximum of 16 invited players and no more than 2 players per association.

• Table Tennis World Cup is a major international tournament featuring the best players from different countries.

• Since 1980, the World Cup of Table Tennis has been held every year.

Q37. Answer: (a) Malanjkhand

The correct answer is Malanjkhand.

Key Points

• Malanjkhand is an open-pit copper mine located in the Balaghat district of Madhya Pradesh, India.

• It is the largest copper deposit in India and one of the largest in the world.

• The mine is owned by Hindustan Copper Limited, a public sector undertaking under the Ministry of Mines, Government of India.

• The mining method used in Malanjkhand is an open pit or surface mining, which involves the removal of overlying rock and soil to access the copper ore.

Additional Information

• Bastar is a district in the Indian state of Chhattisgarh, which has significant reserves of iron ore and limestone.

• There are no copper mines in Bastar.

• Singhbhum is a district in the Indian state of Jharkhand, which has significant reserves of iron ore, coal, and copper.

• However, the copper mines in Singhbhum are underground mines, not open pit mines.

• Ballari is a district in the Indian state of Karnataka, which has significant reserves of iron ore, manganese, and limestone.

• There are no copper mines in Ballari.

Q38. Answer: (b) Arunachal Pradesh

The correct answer is Arunachal Pradesh.

Key Points

• Mopin is a festival celebrated by the Galo tribe of Arunachal Pradesh, India.

• This festival is usually celebrated in the month of April.

• Mopin is celebrated to thank the gods for a good harvest and to pray for the well-being of the community.

• During this festival, people wear traditional attire, perform traditional dances, and offer prayers and sacrifices to the gods.

• The festival is also known for its unique customs like the Mithun dance and the Popir dance.

Additional Information

• Bihar is a state in eastern India, which is known for its rich history and culture.

• The state celebrates many festivals like Chhath Puja, Durga Puja, and Diwali.

• West Bengal is a state in eastern India, which is known for its rich culture and literature.

• The state celebrates many festivals like Rash Mela, Poush Mela, Vasant Panchami and Ratha Yatra Kolkata.

• Himachal Pradesh is a state in northern India, which is known for its scenic beauty and adventure sports.

• The state celebrates many festivals like Pori Festival Lahaul, Minjar Fair Chamba, Summer Festival Shimla, Halda Festival and Sazo Festival.

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Q39. Answer: (b) Tamil Nadu Assembly

The correct answer is Tamil Nadu Assembly.

Key Points

• Tamil Nadu Assembly passed a bill amending the Factories Act 1948 on April 21, 2023, for flexible working hours and extending factory workers' working hours from 8 to 12 hours.

• The amendment was made to increase the productivity and competitiveness of the manufacturing sector in the state and to provide more employment opportunities for workers.

• The bill also includes provisions for adequate rest intervals, overtime pay, and safety measures for workers who work for extended hours.

Additional Information

• The Factories Act of 1948 is an Indian law that regulates the working conditions in factories, including the safety, health, welfare, and working hours of workers.

• The amendment made by the Tamil Nadu Assembly is a controversial one, as it has been criticized by labor unions and workers' rights groups for compromising the safety and health of workers and violating their rights.

• The Bihar Assembly is the legislative body of the state of Bihar, Punjab Assembly is the legislative body of the state of Punjab, and Kerala Assembly is the legislative body of the state of Kerala.

Q40. Answer: (b) 25 cm

The correct answer is 25 cm.

Key Points

• 25 cm is the average minimum distance of distinct vision for a young adult person with no defect in eyes.

• The minimum distance of distinct vision is the closest distance at which a person can see an object clearly.

• The distance varies for each individual and can change with age or eye defects.

Additional Information

• The nearest object that a person with "normal" vision (20/20 vision) can comfortably stare at is known as the least distance of distinct vision (LDDV) or reference seeing distance (RSD) in optometry.

• Stated differently, LDDV is the smallest reasonable distance that may be found between a visible item and the unaided eye.

• When viewed with the human eye, a lens's magnifying power (M) with a focal length (f in millimeters) can be computed as follows:

• M = 250/f

Q41. Answer: (d) Himachal Pradesh

The correct answer is Himachal Pradesh.

Key Points

• Nati is a popular folk dance of Himachal Pradesh, performed during various occasions such as weddings, festivals, and other celebrations.

• The dance involves a group of men and women dancing in a circle, with the participants holding hands and moving in a rhythmic pattern.

• The music for Nati is usually provided by traditional instruments such as dhol, nagara, shehnai, and flute, among others.

• The dance is known for its colorful costumes, which are typically made of woolen fabric and adorned with intricate embroidery and designs.

Additional Information

• Jharkhand is known for its vibrant tribal culture, and the state has several traditional dance forms such as Chhau, Jhumar, and Santhali dance, among others.

• Arunachal Pradesh is a state in Northeast India, and the region is known for its diverse tribal cultures.

• The state has several traditional dance forms such as Aji Lamu, Popir, and Rekham Pada, among others.

• Gujarat is a state in Western India, and the region has a rich cultural heritage.

• The state is known for its traditional dance forms such as Garba, Dandiya Raas, and Bhavai, among others.

Q42. Answer: (c) Agro based industries

The correct answer is Agro-based industries.

Key Points

• Agro-based industries are the correct answer as all the products listed are derived from agricultural sources.

• Agro-based industries refer to those industries that rely heavily on agricultural products as their raw materials.

• Key industries are those industries that are considered crucial for the growth and development of an economy, such as steel,

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petroleum, and automobile industries.

• Consumer industries are those industries that produce goods and services for direct consumption by individuals, such as food, clothing, and entertainment industries.

• Mineral-based industries are those industries that rely on the extraction and processing of minerals and ores, such as mining and metallurgical industries.

Additional Information

• Cotton is a natural fiber that is derived from the cotton plant and is used to produce textiles and clothing.

• Rubber is a natural polymer that is derived from the sap of the rubber tree and is used to produce various products, including tires, footwear, and industrial products.

• Tea, coffee, and sugar are agricultural products that are grown and harvested for consumption as beverages and sweeteners.

• Edible oil is a cooking oil that is derived from various plant sources, including soybeans, sunflowers, and palm trees.

Q43. Answer: (c) Convectional Current Theory

The correct answer is Convectional Current Theory.

Key Points

• Arthur Holmes propounded the Convectional Current Theory about the mantle in the 1930s.

• This theory suggests that the mantle is in constant motion due to convection currents caused by the heat generated by the core.

• The theory explains the movement of tectonic plates and the formation of features like mid-ocean ridges and subduction zones.

• The theory was a significant contribution to the field of geology and helped explain many geological phenomena.

Additional Information

• Theory of Faunal Succession:

• This theory is related to the study of fossils and suggests that the relative ages of rocks can be determined based on the fossils they contain.

• William Smith was the first to recognize the principle at the start of the 1800s.

• Slab Pull Theory:

• This theory explains the movement of tectonic plates due to the weight of the subducting plate pulling the rest of the plate along.

• Harry Hess first suggested this idea after using echo sounding to map out the topology of the ocean basins.

• Theory of Faulting:

• This theory explains the formation of faults and how they contribute to the movement of tectonic plates.

• Michael Balint proposed the Basic Fault Theory.

Q44. Answer: (c) Ferdowsi

The correct answer is Ferdowsi.

Key Points

• 'Shahnama', also known as 'Book of Kings', is a long epic poem written by Ferdowsi in the Persian language.

• The poem narrates the history of Persia and its kings from the creation of the world up until the Islamic conquest of Persia in the 7th century.

Additional Information

• Alberuni was a scholar and historian from Central Asia who wrote extensively on various subjects including history, geography, and astronomy.

• In a work titled Tarikh al-Hind, Alberuni detailed the political, social, and economic circumstances that existed in India in the eleventh century.

• Utbi was a historian and chronicler who wrote about the early Islamic conquests.

• The history of Sebuktigin and Mahmud's reigns is told in the Arabic Tarikh i Yamini, also known as Kitab i Yamini, which is written in an ornate, flowery rhetorical rhymed style.

Q45. Answer: (c) Kuchipudi

The correct answer is Kuchipudi.

Key Points

• Manju Barggavee was awarded the Sangeet Natak Akademi Award 2019 for her contribution to Kuchipudi, an Indian classical dance form that originated in the state of Andhra Pradesh.

• Kuchipudi is characterized by fast footwork, graceful body movements, and expressive facial expressions.

• It is traditionally performed by both male and female dancers, and often tells mythological stories through dance dramas.

Additional Information

• Bharatanatyam, another popular Indian classical dance form, originated in the state of Tamil Nadu.

• It is known for its intricate hand gestures, precise footwork, and elaborate facial expressions.

• Kathak, yet another classical dance form, originated in North India.

• It is characterized by fast spins, rhythmic footwork, and storytelling through dance.

• Mohiniyattam, a classical dance form from the state of Kerala, is known for its graceful movements and subtle expressions.

• It is performed mainly by female dancers and often tells stories of love and devotion through dance.

Q46. Answer: (d) Vishakhapatnam

The correct answer is Vishakhapatnam.

Key Points

• Vishakhapatnam is a coastal city in the southeastern state of Andhra Pradesh.

• It is home to the Eastern Naval Command of the Indian Navy, which has the necessary infrastructure to host the Harbour phase of SIMBEX-2022.

• SIMBEX is an annual bilateral naval exercise conducted between the Indian Navy and the Republic of Singapore Navy (RSN) since 1993.

• The exercise aims to enhance mutual cooperation and interoperability between the two navies, and includes a range of activities such as air defense, anti-submarine warfare, maritime security, and search and rescue operations.

Additional Information

• Guwahati is a city in the northeastern state of Assam and does not have a coast or a naval base.

• Kolkata is a city in the eastern state of West Bengal and although it has a port, it is primarily a commercial port and not a naval base.

• Koch is a city in the southern state of Kerala and does have a naval base, but it is primarily used for training and does not have the infrastructure to host a large-scale naval exercise like SIMBEX.

• The two stages of SIMBEX-2023 were the Harbour Phase, which took place in Singapore from September 21 to 24, 2023, and the Sea Phase.

• In addition to Kavaratti, Sindhukesari, and Ranvijay, Long-Range Maritime Patrol Aircraft P8I took part in the drill.

Q47. Answer: (b) Article 19

The correct answer is Article 19.

Key Points

• Article 19 of the Indian Constitution provides the freedom to practice any profession, occupation, trade, or business.

• Article 18 deals with the abolition of titles, whereas Article 17 abolishes untouchability.

• Article 16 talks about equality of opportunity in matters of public employment.

• The Constitution of India guarantees various fundamental rights to its citizens, including the right to freedom of speech and expression, the right to life and liberty, the right to equality, the right to education, and the right against exploitation.

• The freedom of trade and commerce is an essential part of the right to livelihood, which is a fundamental right under Article 21 of the Indian Constitution.

Additional Information

• Article 14 of the Indian Constitution guarantees equality before the law and equal protection of the law to all persons.

• Article 15 prohibits discrimination on the grounds of religion, race, caste, sex, or place of birth.

• Article 21A provides the right to education to all children between the ages of six and fourteen years.

• Article 23 prohibits trafficking in human beings and forced labor.

Q48. Answer: (c) Rabindranath Tagore

The correct answer is Rabindranath Tagore.

Key Points

• Rabindra Sangeet is a genre of music that originated in Bengal and is primarily associated with the works of Rabindranath Tagore.

• The music of Rabindra Sangeet is characterized by its poetic lyrics, melodic tunes, and the use of traditional Indian instruments such as the harmonium and tabla.

• Rabindra Sangeet has had a significant cultural impact in Bengal and is often sung at social gatherings, religious ceremonies, and cultural events.

Additional Information

• Ravindra Jain was a popular Indian music composer and lyricist who worked primarily in Hindi cinema.

• He is known for his contributions to films such as Chitchor, Ankhiyon Ke Jharokhon Se, and Ram Teri Ganga Maili.

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• Ravi Shankar was a renowned Indian classical musician and sitar player who achieved international fame for his collaborations with Western musicians such as George Harrison and Philip Glass.

Q49. Answer: (c) Inclusive development

The correct answer is Inclusive development.

Key Points

• Inclusive development is a priority that focuses on ensuring that economic growth benefits all segments of society, including marginalized and vulnerable groups.

• Inclusive development aims to reduce inequalities and promote social justice by providing access to education, healthcare, and other basic services to all citizens.

• Inclusive development also seeks to create employment opportunities and promote entrepreneurship, particularly in rural areas and among women and youth.

• The adoption of inclusive development as one of the seven priorities in the Union Budget for the fiscal year 2023-24 demonstrates the government's commitment to building an equitable and sustainable economy that benefits all citizens.

Additional Information

• In order to steer the nation toward "Amrit Kaal," the Union Budget for FY 2023–2024 adopts the seven priorities known as Saptarishi.

• This serves as a model for an empowered and inclusive economy.

• The budget "Saptarishi" has seven key areas of focus:

• youth power, green growth, inclusive development, infrastructure, and investment, reaching the last mile, and the financial sector.

Q50. Answer: (c) K

The correct answer is K.

Key Points

• Potassium (K) is the nutrient that is available mainly in apples.

• Apples are a good source of potassium, which is an essential mineral required for various bodily functions such as heart health, nerve function, and muscle contraction.

• Apples are also a good source of fiber, vitamin C, and antioxidants that can help promote overall health.

Additional Information

• Cobalt is required in trace amounts for the production of vitamin B12 in the body.

• Vitamin B12, which aids in the synthesis of red blood cells, contains cobalt.

• Apples are low in sodium and can be a good addition to a low-sodium diet.

• The body needs sodium, an essential nutrient, to keep bodily fluids balanced and to maintain healthy muscles and neurons.

• Sulfur is required for the production of certain amino acids and proteins in the body.

• Sulfur is necessary for the body to assemble and repair DNA and shield cells from harm that could result in life-threatening conditions like cancer.

Q51. Answer: (a) $p^2-q^2=4\sqrt{pq}$

Given

$\sin\theta + \tan\theta = p$

$\tan\theta - \sin\theta = q$

Calculation

$\sin\theta + \tan\theta = p$ ..(1)

$\tan\theta - \sin\theta = q$ ...(2)

Squaring and subtracting eq 2 from eq 1.

=> p 2 - q 2 = sin 2 θ + tan 2 θ + 2sin θ tan θ - (sin2 θ + tan2 θ - 2sin θ tan θ)

=> p2 - q2 = 4sin θ tan θ

$4\sin\theta\tan\theta = 4\sqrt{(\sin2\theta\tan2\theta)}$

$= 4\sqrt{(\sin2\theta(\sec2\theta - 1)}$

$= 4\sqrt{(\sin2\theta/\cos2\theta - \sin2\theta)}$

$= 4\sqrt{(\tan2\theta - \sin2\theta)}$

$= 4\sqrt{pq}$

Hence, $p2 - q2 = 4\sqrt{pq}$

Therefore Option 1 is the correct answer.

Q52. Answer: (c) 5%

Shortcut Trick

Total Revenue = Cost Price + Profit = 1,200 + 396 = 1,596.

Bananas Sold = Total Revenue ÷ Price per banana = 1,596 ÷ 3.5 = 456.

Bananas Thrown = Total Bananas − Bananas Sold = 480 − 456 = 24.

Percentage Thrown = (24 ÷ 480) × 100 = 5%.

Therefore The correct answer is 5%.

Alternate Method

Given: Cost Price (CP) = Rs. 1,200, Profit = Rs. 396, Selling Price (SP) per banana = Rs. 3.5, Total Bananas = 480.

Formulas: SP = CP + Profit | Number of units = Total SP ÷ Rate per unit | Percentage = (Value ÷ Total) × 100.

=> Total Selling Price (SP) = 1,200 + 396 = Rs. 1,596.

=> Number of good bananas sold = 1,596 ÷ 3.5 = 456.

=> Number of rotten bananas thrown away = 480 − 456 = 24.

=> Percentage of bananas thrown away = (24 ÷ 480) × 100.

=> Percentage = (1 ÷ 20) × 100 = 5%.

Therefore The correct answer is 5%.

Additional Information

Profit and Loss Basics

Profit occurs when the Selling Price (SP) is greater than the Cost Price (CP). Formula: Profit = SP − CP.

Percentage Calculation

To find what percent X is of Y, use the formula: (X ÷ Y) × 100. In this case, X is the number of rotten bananas and Y is the initial quantity.

Q53. Answer: (a) Ravi, Rs. 4

Given

Marked price = Rs. 500

Successive discounts of 36% and 5%.

Prabhat was offered a single discount of 40%

Formula used

Successive discounts = x + y - xy/100

Calculation

Ravi was offered = 36 + 5 - 180/100

= 39.2%

Prabhat was offered a single discount of 40%.

Hence we can conclude that Ravi paid 0.8% extra which is:

= 0.8% of 500

= 4

The answer is Ravi paid Rs. 4 more than Prabhat.

Q54. Answer: (c) 21/2√46

Given

sin θ = 21/25

Formula used:

tan θ = P/B

sin θ = P/H

$P^2 + B^2 = H^2$

Calculation

From the above-mentioned formula:

sin θ = 21/25 = P/H

=> 212 + B2 = 252

=> B2 = 252 - 212

=> B2 = 625 - 441

=> B2 = 184

=> B = 2√ 46

tan θ = P/B = 21/2√46

The value is 21/2√46.

Q55. Answer: (b) 2,000

Given:

Interest difference = Rs. 1440,

T = 6 years and 9 years,

R = 15% and 18%

Formula Used:

A = P + (P × R × T)/100

Calculation:

Let the principal be P.

According to the question,

1440 = [(P × 18 × 9)/100] - [(P × 15 × 6)/100]

=> 1440 = 162P/100 - 90P/100

=> 1440 = 72P/100

=> P = 2000

The answer is 2000.

Q56. Answer: (d) 6

Formula used

sin2 z + cos2z = 1

sin2 z - cos2z = (sin z + cosz)(sin z - cos)

Calculation

= 3(sin^4 z - cos^4z + 1)/sin²z

= 3 [(sin² z + cos²z)(sin2 z - cos²) + 1]/sin²z

= 3 [(sin2 z - cos2) + 1]/sin2z

= 3 [(sin2 z - cos2) + sin2 z + cos2z]/sin2z

= 3 [2 sin2 z]/sin2z

= 6

The answer is 6.

Q57. Answer: (d) 3

Given:

9 + 92 +..+ 9(2n+1)

Concept used:

When any odd multiple of 3 is divided by 6, it will leave a remainder of 3.

Calculations:

When any odd multiple of 3 is divided by 6, it will leave a remainder of 3. For e.g when 9 an odd multiple of 3 is divided by 6, you will get a remainder of 3.

9 is an odd multiple of 3. And all powers of 9 are odd multiples of 3.

Therefore, when each of the 8 powers of 9 listed above is divided by 6, each of them will leave a remainder of 3.

The answer is 3.

Q58. Answer: (c) 121

Given

a - b = 9

ab = 20

Formula used

(a - b)2 = a² + b2 - 2ab

Calculation

Applying the formula

$(a - b)2 = a^2 + b2 - 2ab$

$=> 9^2 = a2 + b2 - 2 \times 20$

$=> 81 + 40 = a2 + b2$

$a2 + b2 = 121$

The answer is 121.

Q59. Answer: (d) 252

Given:

Metallic sphere of radius 21 cm

The radius and height are 7 cm and 3 cm

Formula used:

The volume of sphere = $4/3 \times \pi \times (r)3$

Volume of one cone = $1/3 \times \pi \times (r)2 \times h$

Calculation:

The volume of sphere = $4/3 \times \pi \times (21)3$

Volume of one cone = $1/3 \times \pi \times (7)2 \times 3$

The number of cones obtained = $(4/3 \times \pi \times (21)3)/(1/3 \times \pi \times (7)2 \times 3)$

$= 4 \times 3 \times 21$

$= 252$

The answer is 252.

Q60. Answer: (c) 6,800

GIVEN:

The selling price is Rs 5474

Successive discounts are 12.5% and 8%

FORMULA USED:

S.P. = $(1 - d1/100) \times (1- d2/100) \times M.P.$

Where, S.P. = Selling price, M.P. = Marked price,

d1 and d2 are successive discount percent respectively

CALCULATION:

We know that,

S.P. = $(1- d1/100) \times (1- d2/100) \times M.P.$

$=> 5474 = (1- 12.5/100) \times (1 - 8/100) \times M.P.$

$=> 5474 = 7/8 \times 23/25 \times M.P.$

$=> M.P = 8 \times 25 \times 34$

$=> M.P. = 6800$

Hence, the Marked Price of an article is Rs 6800.

Q61. Answer: (d) 1 : 10

Given

The ratio of liquids P and Q in jars A and B are 2 : 19 and 1 : 11, respectively

7 litres of the solution of jar A and 4 litres of the solution of jar B are mixed

Concept used

If some mixture is taken out, it's drawn in the same initial ratio.

Calculation

When 7 litres of mixture is taken out from jar A:

P = $7 \times 2/21$ and Q = $7 \times 19/21$

When 4 litres of mixture is taken out from jar B:

P = $4 \times 1/12$ and Q = $4 \times 11/12$

Adding the withdrawn mixture we get,

P = $7 \times 2/21 + 4 \times 1/12$

= 2/3 + 1/3 = 1

and Q = 7 × 19/21 + 4 × 11/12

= 19/3 + 11/3 = 30/3 = 10

P = 1 and Q = 10

The ratio of the solutions P and Q in the new mixture is 1:10

Q62. Answer: (d) 10

Given:

In C, S and T are points on the sides PM and PN, respectively

MN || ST and PS : SM = 5 : 7

Concept Used:

ΔPST ~ ΔPMN

(PS/PM) = (ST/MN) = (PT PN)

Calculation:

According to the question,

ΔPST ~ ΔPMN

=> (PS/PM) = (ST/MN)

=> 5/12 = ST/24

=> ST = 10 cm

Therefore The length of ST is 10 cm.

Q63. Answer: (c) 2

Given

$x + 1/x = 2$

Formula used

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

Calculation

$x + 1/x = 2$

$x^2 + 1 - 2x = 0$

$(x - 1)^2 = 0$

$x = 1$

$x^{11} + 1/x^{(20)} = 1 + 1 = 2$

The answer is 2.

Q64. Answer: (d) Basketball in 2020

Calculation

As we can easily comprehend from the given data in the year 2020 where,

the number of boys and girls enrolled in basketball is 43 and 40 respectively.

= 40 + 43 = 83 students.

Hence this makes the year 2020 the year where maximum enrollment took place.

Q65. Answer: (c) 16

Given:

The distance of the chord from the centre = 6 cm

Radius OA = 10 cm

Concepts used:

Perpendicular drawn from the centre of the circle to the chord, bisects the chord.

Calculation:

AC = AB/2 ….(perpendicular to drawn from the centre of the circle, bisects the chord)

Using Pythagorean Theorem,

$OA^2 = OC^2 + AC^2$

$=> 10^2 = 6^2 + AC^2$

$=> 100 - 36 = AC^2$

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=> $AC^2 = 64$

=> AC = 8 cm

AB = AC × 2 = 16

Therefore The length of the chord from centre is 16 cm.

Q66. Answer: (d) 24%

Calculation

The demand for company B = 600

The demand for company C = 2500

= 600/2500 × 100

= 24%

The demand for company B is 24% of the demand for Company C

Q67. Answer: (d) Rs. 2,155.0625

Shortcut Trick

For half-yearly compounding, Rate = 10% ÷ 2 = 5% and Time = 2 × 2 = 4 periods.

Effective rate for 4 periods at 5% = 21.550625%.

CI = 10,000 × 21.550625% = Rs. 2,155.0625.

Therefore The correct answer is Rs. 2,155.0625.

Alternate Method

Given: Principal (P) = Rs. 10,000, Rate (R) = 10% p.a., Time (n) = 2 years.

Formula Used: Amount (A) = P(1 + r/100)^t; CI = A − P.

=> For compounded half-yearly:

=> New Rate (r) = 10% ÷ 2 = 5% per half-year.

=> New Time (t) = 2 × 2 = 4 half-years.

=> A = 10,000 × (1 + 5/100)^4

=> A = 10,000 × (21/20)^4

=> A = 10,000 × (194481 / 160000)

=> A = 194481 ÷ 16 = Rs. 12,155.0625

=> CI = A − P = 12,155.0625 − 10,000

=> CI = Rs. 2,155.0625

Therefore The correct answer is Rs. 2,155.0625.

Additional Information

Compounding Frequency

If compounded quarterly, divide rate by 4 and multiply time by 4. If compounded monthly, divide rate by 12 and multiply time by 12.

Effective Rate Formula

For two successive cycles of r%, effective rate = $(r + r + r^2/100)\%$.

CI vs SI Difference

Difference for 2 years = $P(R/100)^2$. Difference for 3 years = $P(R/100)^2 \times (3 + R/100)$.

Q68. Answer: (c) Rs. 3,600

Given:

A's share = 2 of B's share

B's share = 3 of C's share

Total profit = Rs. 6000

Concept used:

Profit will be directly proportional to amount invested if time period is same

Calculation:

Let the share of C be x.

Then, share of B = 3x and share of A = 6x

Total profit = x + 3x + 6x = 6000

10x = 6000

x = 600

Therefore A has received rs 3600.

Q69. Answer: (b) a/(a²+b²)

Calculation

ax + by = 1 ----------(1)

bx + ay = 2ab/(a²+ b²) ----------(2)

On dividing eq (1)/(2) we get,

=> (ax + by)/(bx + ay) = (a² + b²)/2ab

=> 2a²xb + 2ab²y = a²bx + b³x + a³y + ab²y

=> a²xb + ab²y = b³x + a³y

=> a²bx - b³x = a³y - ab²y

=> x(a²b - b³) = y(a³ - ab²)

=> x/y = (a³ - ab²)/(a²b - b³)

=> x/y = a(a² - b²)/b(a² - b²)

x/y =a/b ----------(3)

Now putting value of x and y from eq (3) in eq (1) we get,

x = a/(a² + b²)

The answer is a/(a2 + b2).

Q70. Answer: (d) Rs. 3,000

Given:

The selling price = Rs. 2625

Discount = 12.5%

Formula used:

S.P. = (100 - Discount%)/100 × M.P.

Where, S.P. = Selling price; M.P. = Marked price

Calculation:

The marked price of the article = 100/(100 - 12.5) × 2625

= 8/7 × 2625

= 8 × 375

= 3000

Therefore The marked price is 3000.

Q71. Answer: (a) 25

Given :

M1 = 18 mechanics, M2 = ?

D1 = 10 days, D2 = 12?

work1 = 90 cars, work2 = 150 cars

Formula used :

M1× D1 × H1/ work1= M2 × D2 × H 2 / work2

Calculation :

Let the number of mechanics required be a.

Substituting the values in the formula

18 x 10/90 = a × 12 ×/150

=> a = 150/6 = 25 mechanics

Therefore 25 mechanics will complete the given work.

Q72. Answer: (b) 589 : 483

Calculation

For Graduate.

A = 22%

E = 16%

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For Postgraduate
B = 19%
C = 23%
The graduates in the universities A and E together = 24800 × (22 + 16)%
The postgraduates in the universities B and C together = 18400 × (19 + 23)%
Hence the ratio of the two will be:
= 248 × (38) : 184 × (42)
= 31× 19 : 23 × 21
= 589 : 483
The ratio of the graduates in universities A and E together to the postgraduates in universities B and C will be 589 : 483.

Q73. Answer: (b) 7.8

Given:
Distance = 2250 m
Savitha gave Parnika a 396 m head start and also allowed her to start 9 seconds before Savitha started running
Speed of Parnika = 6 m/s
Savitha caught up with Parnika 250 seconds after Savitha started running
Concept Used:
Relative Speed
Calculation:
Let the speed of Savita be x m/s.
Distance travelled by Parnika in 9 second head start = 6 × 9 = 54 m
The total distance that Parnika will be ahead of Savita = 54 + 396 = 450
The distance for Savita to cover at a relative speed of (x - 6) m/s in 250 seconds = 450 m
=> (x - 6) × 250 = 450
=> 250x - 1500 = 450
= 1950/250 = x
x = 7.8 m/s
Therefore, the speed of Savitha to finish the race is 7.8 m/s.

Q74. Answer: (d) 12

Given
PQ is a direct common tangent
The radii of the circles are 9 cm and 4 cm, respectively.
Formula used:
Length of direct common tangent = √[d2 - (R - r)2]
where d is the distance between the centres and R and r are the radii of the circles.
Calculation
We know,
Length of direct common tangent = $\sqrt{[d^2 - (R - r)^2]}$
d = 9 + 4 = 13 cm
PQ = $\sqrt{[13^2 - (9 - 4)^2]}$
=> PQ = √[169 - 25]
=> PQ = √144
=> PQ = 12 cm
The answer is 12 cm.

Q75. Answer: (d) 168°

Given:
AB and BC are two chords of a circle with centre O.
Point A and point C are connected to the centre O
angle BAO = 36°
angle BCO = 48°

Concept used:

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

Calculation:

According to the question

angle BAO = 36°

angle BCO = 48°

Since, AO, BO and CO are the radius of the circle.

angle OAB = angle OBA = 36° (angles opposite to equal sides are equal)

=> angle OCB = angle OBC = 48°

=> angle ABC = angle OBC + angle OBA

= 48° + 36°

= 84°

The angle subtended by the minor arc AC at the centre O = angle AOC

angle AOC = 2angle ABC (angle subtended on the centre of the circle is twice that of angle subtended by same arc on the circumference)

=> angle AOC = 2 × 84 = 168

Therefore The degree measure of the angle subtended by the minor arc AC at the centre O is 168°.

Q76. Answer: (c) wrest

The solution is in Hindi. Read it online.

Q77. Answer: (a) impackted

The solution is in Hindi. Read it online.

Q78. Answer: (c) No fewer than

The correct answer is: No fewer than.

Key Points

• In this context, the phrase "No less than" is used to emphasize a minimum quantity or number.

• However, when referring to a countable number of individuals (like pedestrians), the appropriate phrase is "No fewer than."

• The phrase "no fewer than" means "at least" or "not less than".

• It is used to indicate a minimum number or amount.

• In this sentence, "no fewer than eight" means that there were at least eight pedestrians killed in the accident.

Therefore, the correct answer is option 3

Q79. Answer: (b) working

The solution is in Hindi. Read it online.

Q80. Answer: (a) The scientist made a remarkable discovery.

The correct answer is: The scientist made a remarkable discovery.

Key Points

• In the passive voice construction, the emphasis is on the action or the result rather than the doer of the action.

• The sentence starts with the receiver of the action ("A remarkable discovery") and then introduces the doer ("by the scientist").

• In the active voice, we shift the focus to the doer of the action, which is "the scientist" in this case.

• The sentence begins with the subject, followed by the verb and then the object.

• Passive Voice Structure: Object + be verb + past participle of the main verb + by + agent

• Active Voice Structure: Subject+Verb+Object

• By transforming the sentence into active voice, we make the sentence more straightforward, putting the focus on the scientist as the doer of the action.

Therefore, the correct answer is option 1.

Q81. Answer: (a) He speaks pleasantly

The correct answer is: He speaks pleasantly

Key Points

• "speaks" is in the present tense, which doesn't align with the specified time frame of "yesterday evening."

• The structure of the sentence is inconsistent.

• The use of "yesterday evening" indicates a past time, but the present tense "speaks" is used.
• When narrating events that occurred in the past, it's essential to use the past tense of the verb.
• In this case, the action of speaking with her took place in the past, specifically "yesterday evening."
• Therefore, "spoke" is the appropriate past tense verb to use.
• Corrected sentence: He spoke pleasantly with her yesterday evening but not today.
• The corrected sentence maintains consistency in verb tense and accurately reflects the temporal sequence of events.

Therefore, the correct answer is option 1.

Q82. Answer: (b) DACB

The correct answer is: DACB

Key Points

• Sentence D: This sentence sets the stage by describing the situation and introducing Abhimanyu as the central character taking action.
• Sentence A: This sentence follows, describing the aggressive and successful action taken by Abhimanyu against the enemy lines. The metaphorical use of "young lion" adds vividness to the description.
• Sentence C: This sentence provides additional information about Abhimanyu's tactics, introducing the use of a weapon with a hallucinating agent. It adds depth to the narrative.
• Sentence B: This sentence follows logically as a consequence of Abhimanyu's powerful counterattack and the use of the hallucinating agent. The panic and chaos among the enemy soldiers are a result of these actions.
• So, the logical sequence follows the development of the situation, Abhimanyu's actions, the tactics employed, and the consequences for the enemy soldiers.

Therefore, the correct answer is option 2.

Q83. Answer: (a) Atheist

The solution is in Hindi. Read it online.

Q84. Answer: (a) The famous filmmaker directed the movie and the studio produced it.

The correct answer is: The famous filmmaker directed the movie and the studio produced it.

Key Points

• In this passive sentence, the focus is on the movie, and the actions of directing and producing are being done to it.
• The structure is: Subject + Verb (Past Participle) + Agent.
• Subject: The movie
• Verb: was directed, produced
• Past Participle: directed, produced
• Agent: by the famous filmmaker, by the studio
• In the active voice, the focus is on the doer of the actions, which makes the sentence more direct and concise.
• The structure is: Subject + Verb + Object.
• Subject: The famous filmmaker, The studio
• Verb: directed, produced
• Object: the movie
• In the active voice, the sentence becomes clearer, and the doers of the actions are explicitly stated at the beginning of each clause.

Therefore, the correct answer is option 1.

Q85. Answer: (b) involved in many things

The solution is in Hindi. Read it online.

Q86. Answer: (b) exhibited; senseless

The solution is in Hindi. Read it online.

Q87. Answer: (d) Agitated

The solution is in Hindi. Read it online.

Q88. Answer: (d) has impacted the way we consume

The solution is in Hindi. Read it online.

Q89. Answer: (b) QRPS

The correct answer is: QRPS

Key Points

• The sentence talks about a report discussing renewable energy and its implementation challenges.

• Q: This part introduces the main action of the sentence, indicating that the content of the sentence is centered around a report.

• R: This part provides additional information about the report's focus, specifying that it concerns the current condition or status of renewable energy.

• P: This part follows, expanding on the report's content by explaining that the challenges related to the implementation of renewable energy will be discussed.

• S: Finally, this part concludes the sentence by stating what aspects of the implementation will be addressed, specifically mentioning potential solutions.

• The correct order follows the standard sentence structure of subject-verb-object.

Therefore, the correct answer is option 2.

Q90. Answer: (d) called around the neighbourhood

The solution is in Hindi. Read it online.

Q91. Answer: (b) Imperative

The solution is in Hindi. Read it online.

Q92. Answer: (b) Pacify

The solution is in Hindi. Read it online.

Q93. Answer: (b) reveal a confidential information

The solution is in Hindi. Read it online.

Q94. Answer: (c) Enthusiasm

The solution is in Hindi. Read it online.

Q95. Answer: (c) procrastinate

The solution is in Hindi. Read it online.

Q96. Answer: (a) contender

The solution is in Hindi. Read it online.

Q97. Answer: (b) with

The correct answer is: With

Key Points

• With is the correct preposition to use when talking about being accompanied or having something in your possession.

• In this case, the blank is asking for the appropriate preposition to use.

• Example: I am filling out a form with my friend.

Therefore, the correct answer is option 2.

Additional Information

• "For" is often used to indicate purpose or reason.

• "On" is often used to indicate location or topic.

• "At" is often used to indicate a specific time or place.

Q98. Answer: (d) help

The solution is in Hindi. Read it online.

Q99. Answer: (d) high

The correct answer is: High

Key Points

• The blank is asking for an appropriate option to fill in the fourth space.

• The word "high" is appropriate in this context because it accurately describes the elevated or considerable level of cholesterol found in eggs.

• "High" is the best choice as it completes the sequence of increasing levels.

Therefore, the correct answer is option 4.

Q100. Answer: (a) normally

The solution is in Hindi. Read it online.

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