SSC CHSL Tier-1 2021: Official Paper (Held On : 1 June 2022 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2021 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the option that expresses the given sentence in passive voice.

I laughed at the clown.

(a) The clown was laughed at by me.
(b) The clown was being laughed by me.
(c) The clown is being laughed at by me.
(d) The clown is laughed by me.

Q2. Identify the segment in the sentence which contains a grammatical error.

There was an interesting article in the newspaper about the dangers to an environment.

(a) to an environment
(b) an interesting article
(c) about the dangers
(d) in the newspaper

Q3. Select the INCORRECTLY spelt word.

(a) Aquaintance
(b) Treacherous
(c) Serendipity
(d) Malicious

Q4. Select the most appropriate option that can substitute the underlined segment in the given sentence.

We will leave towards 6.00 a.m.

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

Q5. Select the most appropriate ANTONYM of the given word.

Sacred

(a) Profane
(b) Maniacal
(c) Inquisitive
(d) Rational

Q6. Select the option that can be used as a one-word substitute for the underlined group of words.

The manager behaves as if he knows everything and has unlimited knowledge.

(a) Omnipotent
(b) Omniscient
(c) Omnipresent

(d) Omnivorous

Q7. Select the most appropriate synonym of the given word.

Rampart

(a) Denigration
(b) Fortitude
(c) Bulwark
(d) Portal

Q8. Select the option that can be used as a one-word substitute for the given group of words.

The action of examining with care or reading carefully

(a) Persuade
(b) Perverse
(c) Perusal
(d) Persiflage

Q9. Select the option that expresses the given sentence in active voice.

Our team has been defeated.

(a) Our team defeated the opposition.
(b) The opposition had been defeated by our team.
(c) The opposition defeated our team.
(d) The opposition has defeated our team.

Q10. The following sentence contains a grammatical error. Select the option that correctly rectifies the error.

He sees us coming, and unaware that we had learned of his treachery, greeted us with a smile

(a) He saw us coming, and unaware that we learned of his treachery, greeted us with a smile.
(b) He saw us coming, and unaware that we had learned of his treachery, greeted us with a smile.
(c) He saw us coming, and unaware that we were learning of his treachery, greeted us with a smile
(d) He saw us come, and unaware that we had learned of his treachery, greets us with a smile.

Q11. Select the option that will improve the underlined part of the given sentence.

Nowadays, many doctors advise to live in the countryside.

(a) to have live in the countryside
(b) lived in the countryside
(c) to lived in the countryside
(d) living in the countryside

Q12. From among the words given in bold, select the INCORRECTLY spelt word in the following sentence.

Jane Austen was already writing in the early 1790s, as the debates raged on radicalism, women's rights, and premitivism.

(a) radicalism
(b) premitivism
(c) raged
(d) debates

Q13. Select the option that can be used as a one-word substitute for the underlined group of words.

At the party, Rohan was pretending to be what he is not to influence the investors for his company's shares.

(a) Canter
(b) Autocrat
(c) Hypocrite
(d) Goody

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Q14. Select the most appropriate meaning of the given idiom.

Pull a long face.

(a) To look angry
(b) To look sad
(c) To flatter someone
(d) To chide someone

Q15. Select the most appropriate option to fill in the blank.

Towards the end of February the weather turned very_____.

(a) slight
(b) insipid
(c) mild
(d) thin

Q16. Select the correct homonym from the given options to fill in the blank.

A diary entry is a _____ account of one's day and is a very useful tool for celebrities.

(a) person
(b) personnel
(c) persona
(d) personal

Q17. Select the most appropriate ANTONYM of the given word.

Treacherous

(a) Fantastic
(b) Flexible
(c) Fluent
(d) Faithful

Q18. Complete the sentence with an appropriate ANTONYM of the word mentioned in the bracket.

There is _____ (scarce) evidence that he is the thief.

(a) strong
(b) mysterious
(c) scant
(d) abundant

Q19. Select the most appropriate option to substitute the underline segment in the given sentence.

It is a bad habit to talk in while someone is speaking.

(a) cut in
(b) intrude over
(c) burst in
(d) walk over

Q20. Select the most appropriate meaning of the given idiom.

Bed of roses

(a) Trying condition of life
(b) Lethargic condition of life
(c) Testing condition of life
(d) Pleasant condition of life

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.

Although everyone wants to be successful in life, there are (1)_____ people who know the elements of success, the factors that go to build up success. Today, success is being (2)_____ with making money, with amassing millions and

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billions. Some people equate it with power and position. Many of us tend to equate success with visible material acquisitions. Outer things and external achievements are not a (3)_____ of success. Power, prestige, position, social influence and higher degrees awarded by universities - all these are outer things. They only touch the fringe of life; they do not enter the depths within. A man may have all these and yet maybe intellectually barren; he may be emotionally barren and spiritually sterile. Would you call such a man (4)_____? What then is success all about? What is true success? Success can be defined as the ability to be happy and make others happy; the ability to love and be loved; the ability to remain in peaceful (5)_____ with oneself; with those around you and with God's cosmic laws.

Q21. Select the most appropriate option to fill in blank number 1.

(a) a few
(b) most of
(c) lot of
(d) a majority

Q22. Select the most appropriate option to fill in blank number 2.

(a) challenged
(b) confused
(c) decreased
(d) amazed

Q23. Select the most appropriate option to fill in blank number 3.

(a) reason
(b) measure
(c) thought
(d) gift

Q24. Select the most appropriate option to fill in blank number 4.

(a) sober
(b) successful
(c) sensible
(d) thoughtful

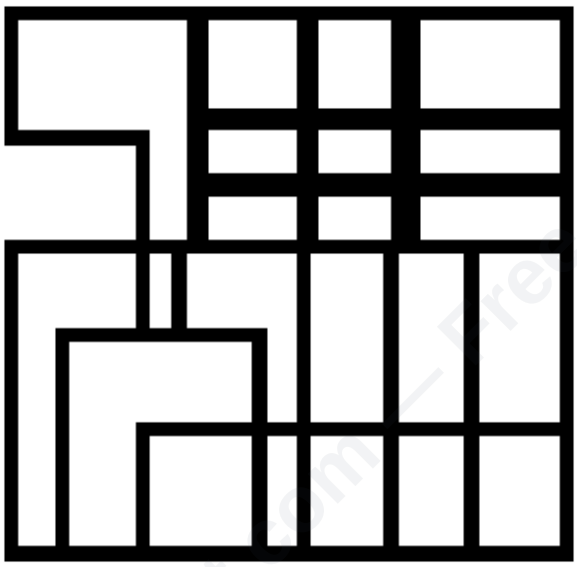
Q25. Select the most appropriate option to fill in blank number 5.

(a) harmony
(b) inner beauty
(c) pride
(d) praise

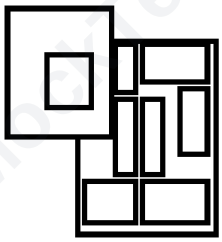
GENERAL INTELLIGENCE

Q26. Select the option that is embedded in the given figure as its part (rotation is NOT allowed).

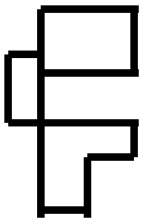
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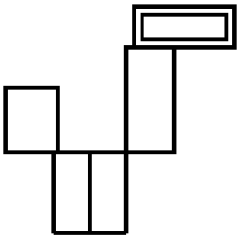
(a)



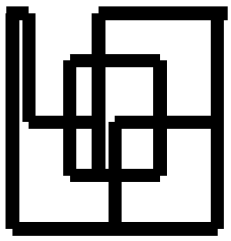
(b)



(c)



(d)



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Q27. In a certain code language, 'STRONG' is written as 'TSORGN', and 'PASTEL' is written as 'APTSLE'. How will 'WORKER' be written in that language?

(a) OWKRER
(b) OWKRRE
(c) OKWRER
(d) OWRKRE

Q28. Which of the following numbers will replace the question mark (?) in the given series?

6, 16, 29, 62, 121, ?

(a) 283
(b) 246
(c) 238
(d) 264

Q29. Which of the following numbers will replace the question mark (?) in the given series?

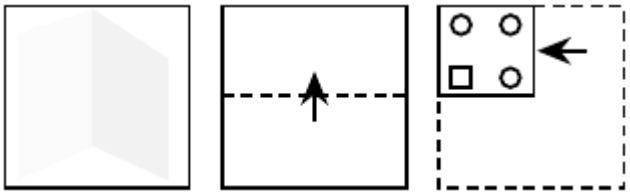
15, 30, 33, ?, 137, 822

(a) 126
(b) 132
(c) 128
(d) 130

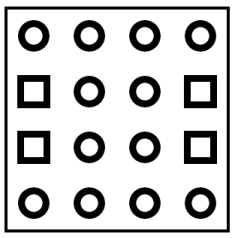
Q30. The second number in the given number pairs is obtained by performing certain mathematical operations on the first number. The same operations are performed in all the options except one pair. Find the odd one out.

(a) 4612-6412
(b) 7938-9873
(c) 5286-8652
(d) 8734-8743

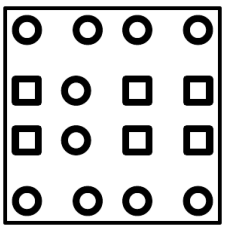
Q31. A paper is folded and cut as shown. How will it appear when unfolded?



(a)

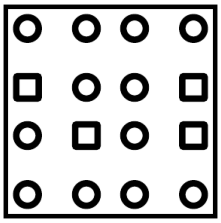


(b)

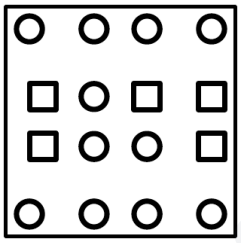


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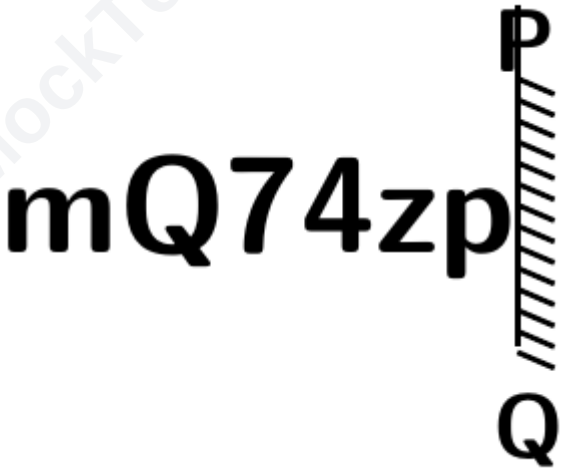
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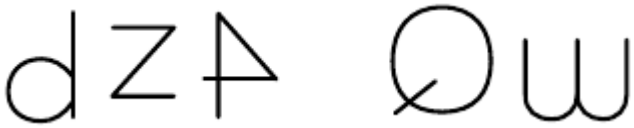
(d)



Q32. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.



(a)



(b)

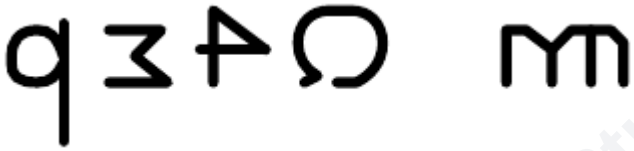


(c)



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(d)



Q33. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 9, 34, 72

Second row- 7, 26, 56

Third row- 23, 90,?

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

(a) 184
(b) 148
(c) 146
(d) 164

Q34. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 12, 36, 60

Second row: 24, 72, 120

Third row: 33, 99, ?

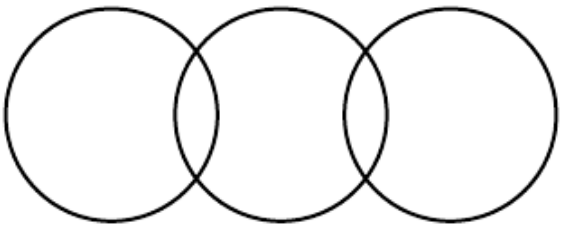
(NOTE: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. For example, 13 - Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1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

(a) 160
(b) 175
(c) 140
(d) 165

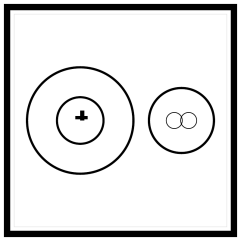
Q35. Select the Venn diagram that best represents the relationship between the following classes.

Galaxy, Earth, Moon

(a)

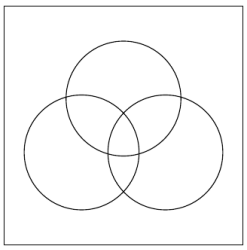


(b)

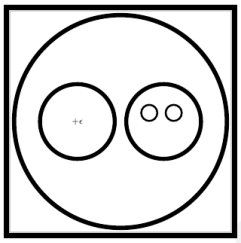


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(c)



(d)



Q36. Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

d _ c d _ b_ d _ c d c _ d d b c _ c b d

(a) b d d b b d
(b) d c d d b d
(c) b c d b b d
(d) d c d b b d

Q37. Which of the following numbers will replace the question mark (?) in the given series?

294, 326, 252, 273, 210, 220, 168, 167, ?

(a) 115
(b) 126
(c) 120
(d) 125

Q38. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Mathematic
2. Malfunction
3. Masterpiece
4. Manipulation
5. Manageable

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

Q39. Which of the following numbers will replace the question mark (?) in the given series?

74, 62, 82, 78, 109, 159, 173, ?

(a) 223
(b) 375
(c) 415
(d) 295

Q40. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(18, 5, 65)

(14, 3, 61)

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

(a) (22, 16, 87)
(b) (24, 16, 90)
(c) (23, 19, 57)
(d) (25, 11, 4)

Q41. Which letter-cluster will replace the question mark (?) to complete the given series?

QESC, ?, QOSM, QTSR, QYSW

(a) RLSJ
(b) QJSH
(c) QIRG
(d) RKSI

Q42. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 9, 7, 48

Second row: 12, 5, 44

Third row: 8, 13, ?

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

(a) 76
(b) 94
(c) 96
(d) 84

Q43. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 86, 82, 56

Second row: 74, 67, 47

Third row: 54, 48, ?

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

(a) 34
(b) 38
(c) 32
(d) 37

Q44. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

INCLUDE : CNILEDU :: KEYNOTE : YEKNETO :: NOTABLY : ?

(a) TOYANLB
(b) BLYANOT
(c) TONAYLB
(d) TONABLY

Q45. In a certain code language, 'HEAT' is written as 'VSGZ' and 'CLAY' is written as 'OXBZ'. How will 'BANK' be written in that language?

(a) YZMP
(b) YZPM
(c) ZYMP
(d) ZYPM

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Q46. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

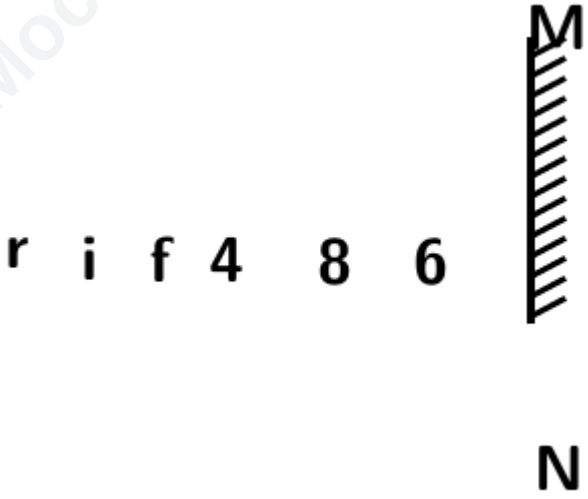
1. Immense
2. Induce
3. Implied
4. Interim
5. Invalid

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

Q47. Seven friends M, N, O, P, Q, R and S, each has a different height. Only two people are taller than Q. P is taller than Q but shorter than O. M is taller than R but shorter than S. Only three people are taller than S. N is the shortest among all. The height of how many persons is between the heights of Q and R?

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

Q48. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



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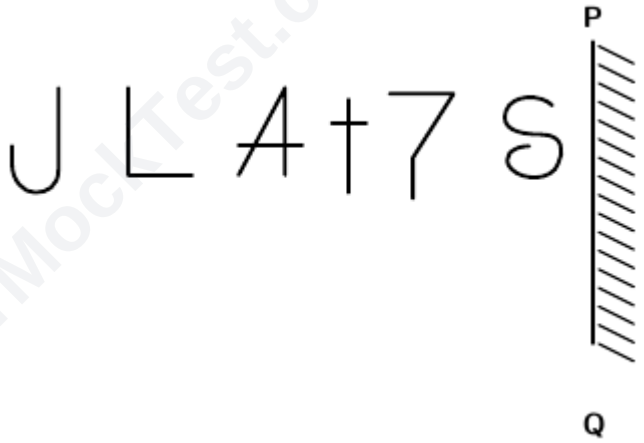
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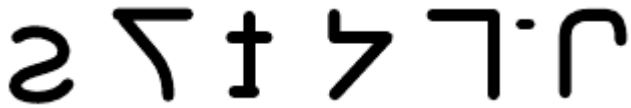
(d)



Q49. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.



(a)



(b)



(c)

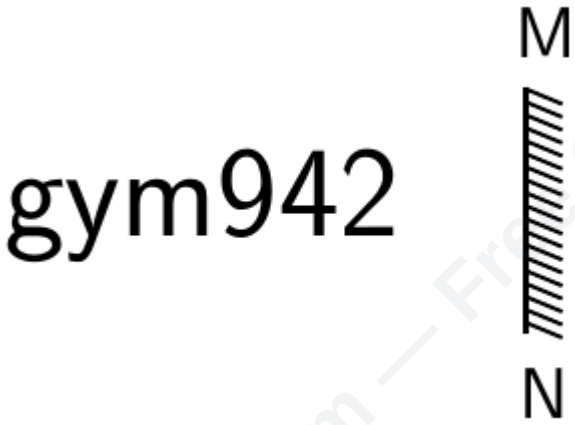


(d)



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Q50. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. For what angle D is ΔABC congruent to ΔDEF, given AC = 2.5 cm, BC = 5 cm, angle C = 75°, DE = 2.5 cm and DF = 5 cm?

(a) 75°
(b) 25°
(c) 35°
(d) 90°

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Q52. If $8x^2 + 9x + 8 = 0$, then the value of $x^3 + 1/(x^3)$ is:

(a) 999/212
(b) 199/212
(c) 999/512
(d) 199/512

Q53. The profit triples if the selling price is doubled. The profit percentage is:

(a) 110
(b) 50
(c) 100
(d) 28

Q54. A man can complete a work in 20 days, and a woman can complete the same work in 10 days. If they work on it together for 5 days, then how many days will the woman take to complete the rest of the work?

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

Q55. A family spends 8% of its monthly income on charity. In a particular month, the family spent Rs. 1,200 on charity. What is the income in that month?

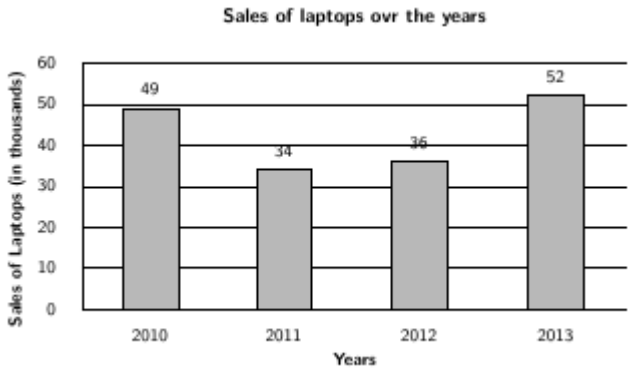
(a) Rs. 15,000
(b) Rs. 16,000
(c) Rs. 12,000
(d) Rs. 18,000

Q56. How many numbers between 100 and 1000 are divisible by 17?

(a) 51
(b) 53
(c) 52
(d) 54

Q57. Study the following bar-chart and answer the question that follows.

The bar-chart shows the sales of laptops (in thousands) over a period of four years.



Find the percentage increase in sales from 2012 to 2013, giving your answer correct to two places of decimal.

(a) 42.98%
(b) 48.54%
(c) 45.64%
(d) 44.44%

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Q58. The area of a triangle is 96 cm^2 and the length of one of its sides is 24 cm. What is the length of the perpendicular drawn to this side of the triangle from the opposite vertex?

(a) 16 cm
(b) 8 cm
(c) 4 cm
(d) 12 cm

Q59. Find the value of ((9³+9^4+9^5+9^6+9^7)/(9¹+9²+9³+9^4+9^5))^(1/2).

(a) 9
(b) 3
(c) 729
(d) 81

Q60. The value of sin 2θ (tan θ + cot θ) is:

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

Q61. Study the given table and answer the question that follows.

The following table gives the month-wise number of different types of scooters produced by a company during the first six months of 1992.

Months→ Types of scooters ↓	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
X	25	25	18	40	20	15
Y	25	27	50	45	30	20
Z	25	27	15	25	30	20
T	25	26	25	0	30	35
TOTAL	100	105	108	110	110	90

In which two of the six given months was the total number of scooters produced by the company, of all types taken together, equal?

(a) January and May
(b) April and May
(c) January and February
(d) January and march

Q62. Find the value of the given expression:

42 ÷ 7 × (5 + 7) ÷ 3

(a) 1.5
(b) 3
(c) 24
(d) 32

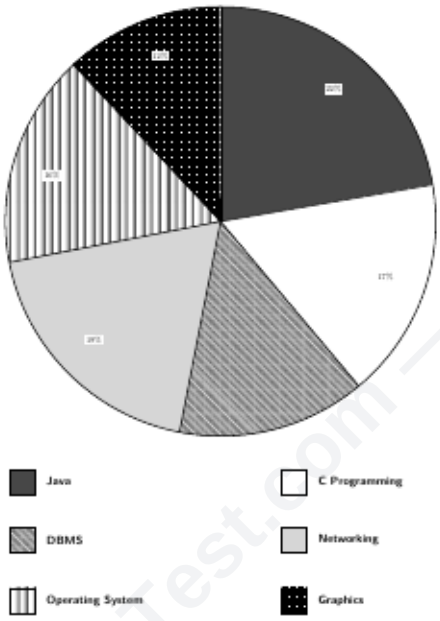
Q63. Bhanu spends 20% of his monthly salary on rent, 10% on stationery, 14% on transport, 18% on electricity, and the balance of Rs. 1,520 on remaining items. What is the monthly salary of Bhanu?

(a) Rs. 10,000
(b) Rs. 6,000
(c) Rs. 4,000
(d) Rs. 2,000

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Q64. The pie chart shows the percentage-wise break up of students in terms of specialisation in Engineering.

Total number of students = 8000



What is the ratio of the total number of students having either Networking or Graphics as their specialisations to the number of students having C programming as their specialisation?

(a) 18 : 13
(b) 29 : 11
(c) 11 : 19
(d) 31 : 17

Q65. A certain sum is invested at 26% p.a, interest compounded annually. In how many years (approx) will it double?

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

Q66. A watercraft is rowed down 32 km along a river in 4 hours and 10 km against the river in 5 hours. Find the speed of the watercraft and that of the river.

(a) 4.5 km/h and 2.5 km/h
(b) 4 km/h and 3 km/h
(c) 5 km/h and 3 km/h
(d) 3.5 km/h and 1.5 km/h

Q67. Roshni travelled at the speed of 66 km/h while going from point A to point B and returned via the same route at the speed of 92.4 km/h. What was Roshni's overall average speed during the two-way journey?

(a) 77 km/h
(b) 79.2 km/h
(c) 79 km/h
(d) 78 km/h

Q68. The ratio of the ages of two friends is 7 : 9, while after 10 years it will be 19 : 23. What will be their average age 7 years from now?

(a) 33 years
(b) 35 years
(c) 36 years
(d) 39 years

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Q69. If x-1/x=11, what is the value of (x^4+1/(x^4)) ?

(a) 14159
(b) 14163
(c) 15127
(d) 15131

Q70. A 37% discount was offered on an item with a marked price of Rs. 2,900. What was the selling price of the item?

(a) Rs. 1,827
(b) Rs. 1,073
(c) Rs. 1,823
(d) Rs. 1,829

Q71. What is the volume of a sphere whose diameter is 16.8 cm? [Use π=22/7]

(a) 2487.312 cm3
(b) 2473.812 cm3
(c) 2483.712 cm3
(d) 2483.172 cm3

Q72. If the radii of two cylinders are in the ratio of 2 : 3 and their heights are in the ratio of 5 : 3, then the ratio of their volumes is:

(a) 22 : 15
(b) 20 : 27
(c) 3 : 4
(d) 16 : 23

Q73. A man rides his bicycle for 10 kilometres at a speed of 12 kilometres per hour, then for another 12 kilometres at a speed of 10 kilometres per hour. What is his average speed for the entire trip approximately?

(a) 10.8 km/h
(b) 11.8 km/h
(c) 11.4 km/h
(d) 10 km/h

Q74. The marked price of a mobile phone was Rs. 35,600. The shop owner offered a 10% trade discount on the marked price but on further request by the customer, he sold the phone for Rs. 30,000 after giving a cash discount. How much is this cash discount as a percentage of the price after the trade discount? (Give your answer correct to 2 decimal places.)

(a) 6.37%
(b) 5.75%
(c) 4.95%
(d) 5.25%

Q75. A and B share a few marbles in the ratio 4 : 5. If B gets 10 marbles more than A, then what is A's share?

(a) 8 marbles
(b) 42 marbles
(c) 12 marbles
(d) 40 marbles

GENERAL AWARENESS

Q76. Which river basin covers an area of 8,60,000 km² and is spread across 11 Indian states?

(a) Mahanadi basin
(b) Ganga basin
(c) Indus basin
(d) Brahmaputra basin

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Q77. In August 2021, the Supreme Court in the Pichra Warg Kalyan Mahasabha vs. _____case reaffirmed that 'creamy layer' is based on social forwardness and not economic criteria alone.

(a) State of Rajasthan
(b) State of Gujarat
(c) State of Madhya Pradesh
(d) State of Haryana

Q78. Whose autobiography is called "half story"?

(a) Dayanand Saraswati
(b) Banarasi Das Jain
(c) Bhai Parmanand
(d) Satyanand Agrihotri

Q79. Which one of the following dances are associated with the Vaishnavism of the Meitai people?

(a) Chhau
(b) Sattriya
(c) Kuchipudi
(d) Manipuri

Q80. As of February 2022, the prize money (purse money) for Sangeet Natak Akademi Ratnasadasya (Fellow) is _____.

(a) Rs. 3 lakh
(b) Rs. 2 lakh
(c) Rs. 1 lakh
(d) Rs. 4 lakh

Q81. As per statistics published by National total number of crime incidences Records Bureau for 2020, which metropolitan city tops in crime against Scheduled Caste(s)?

(a) Lucknow
(b) Kanpur
(c) Patna
(d) Jaipur

Q82. To whom can the Judge of the Supreme Court address his/her resignation letter?

(a) The Prime Minister of India
(b) The President of India
(c) The Chief Justice of India
(d) The Law Minister of India

Q83. 'What I Talk About When I Talk About Running' is a book written by_____.

(a) Suematsu Kenchō
(b) Yukio Mishima
(c) Hiroaki Sato
(d) Haruki Murakami

Q84. Compounds containing dry ice, mothballs, iodine crystals, and zinc change directly from solid to gaseous state by which of the following methods without going into the liquid state?

(a) Evaporation
(b) Condensation
(c) Melting
(d) Sublimation

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Q85. Which of the following techniques uses a combination of a large magnet and radio waves to visualize the organs and structures inside our bodies?

(a) Computed tomography
(b) Fluoroscopy
(c) Positron Emission Tomography
(d) Magnetic resonance imaging

Q86. In running events who counts the laps?

(a) Lap counter
(b) Lap scorer
(c) Time keeper
(d) Lap recorder

Q87. In which year did Sonu Sood release his autobiography 'I Am No Messiah'?

(a) 2014
(b) 2020
(c) 2018
(d) 2007

Q88. Why are the outermost electrons lost easily down the group?

(a) The elements are inert
(b) The innermost electrons are farther away from the nucleus
(c) The outermost electrons are closest to the nucleus
(d) The outermost electrons are farther away from the nucleus

Q89. The NBFID bill was passed in Rajya Sabha on 25 March 2021, by which NBFID will be set up as a corporate body with an authorised share capital of _____ lakh crore rupees.

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

Q90. A R Rahman received the Academy Award in 2009 for which of the following movies?

(a) Lagaan
(b) Slumdog Millionaire
(c) Roja
(d) Bombay Dreams

Q91. What is the other name of trap shooting?

(a) Clay-pigeon shooting
(b) Crawl shooting
(c) Wood-pigeon shooting
(d) Pigeon shooting

Q92. When did Ernest Rutherford publish the results of the gold-foil experiment, which showed that scattering is caused by a rigid, dense core at the centre of the atom - the nucleus?

(a) 1905
(b) 1911
(c) 1921
(d) 1925

Q93. Who among the following personalities has been conferred with the Padma Shri in 2022 for his contribution to Baiga dance and Music?

(a) Girdhari Ram
(b) Savaji Bhai Dholakia

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(c) Arjun Singh Dhurve
(d) Chandra Prakash

Q94. Who among the following is known as a vocalist in Carnatic Music?
(a) Gangubai Hangal
(b) GN Balasubramaniam
(c) Kaushiki Chakraborty
(d) Girija Devi

Q95. In India, the tradition of singing ghazal was established by_____.
(a) Hazrat Ali
(b) Hazrat Amir Khusrau
(c) Hazrat Nizamuddin
(d) Hazrat Shahenshahwali

Q96. Pandit Bhimsen Joshi received the National Film Award for best male playback singer for his rendition in which of the following Hindi movies of 1985?
(a) Ankahee
(b) Tansen
(c) Sandhya Raga
(d) Basant Bahar

Q97. What is the common name of Parthenium hysterophorus?
(a) Lemon grass
(b) Lawn grass
(c) Horse grass
(d) Carrot grass

Q98. Identify the false statement in the context of the money supply.
(a) Total stock of money alone in an economy determines the overall liquidity in the economy.
(b) Commercial banks use primary deposits to create credit.
(c) The money held by the government is not included in the measure of money supply.
(d) Credit money refers to money whose money value is more than commodity value.

Q99. Which river rises near Mhow in the Malwa plateau of Madhya Pradesh?
(a) Chambal
(b) Mahi
(c) Varuna
(d) Betwa

Q100. Who among the following is the author of the famous novel 'The adventures of Huckleberry Finn'?
(a) Emily Bronte
(b) Ernest Hemingway
(c) Mark Twain
(d) Herman Melville

ANSWER KEY

1	a	2	a	3	a	4	a	5	a	6	b	7	c	8	c	9	d	10	b
11	d	12	b	13	c	14	b	15	c	16	d	17	d	18	d	19	a	20	d
21	a	22	b	23	b	24	b	25	a	26	c	27	b	28	b	29	b	30	a
31	a	32	d	33	a	34	d	35	d	36	c	37	b	38	d	39	c	40	d
41	b	42	d	43	a	44	c	45	d	46	a	47	a	48	d	49	c	50	b

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51	a	52	c	53	c	54	a	55	a	56	b	57	d	58	b	59	a	60	d
61	b	62	c	63	c	64	d	65	b	66	c	67	a	68	d	69	c	70	a
71	c	72	b	73	a	74	a	75	d	76	b	77	d	78	b	79	d	80	a
81	a	82	b	83	d	84	d	85	d	86	b	87	b	88	d	89	d	90	b
91	a	92	b	93	c	94	b	95	b	96	a	97	d	98	a	99	a	100	c

SOLUTIONS

Q1. Answer: (a) The clown was laughed at by me.

The correct answer is "The clown was laughed at by me."

Key Points

• There are a few things we need to keep in mind before changing a sentence from active to passive voice:

• The subject in the active voice becomes the object in the passive voice.

• In the given sentence, the subject pronoun "I" in the active voice changes to the object pronoun "me" in the passive voice.

• The object in the active voice becomes the subject in the passive voice.

• In the given sentence, "the clown" becomes the subject in a passive voice.

• We use the preposition "by" before the agent in the passive voice.

• In the given sentence, the preposition "by" is used before the object pronoun "me".

• The given sentence is in the simple past tense.

The correct sentence is: The clown was laughed at by me.

Hence, the correct answer is option 1.

Q2. Answer: (a) to an environment

The erroneous segment is "to an environment".

Key Points

• In the given sentence, the usage of indefinite article "an" in the given sentence is incorrect.

• We use the definite article before singular or plural noun.

• In the given sentence, we need to use the definite article "the" before the singular noun "environment".

The correct sentence is: There was an interesting article in the newspaper about the dangers to the environment.

Hence, the correct answer is option 1.

Q3. Answer: (a) Aquaintance

The erroneous spelling is "Aquaintance".

Key Points

• Let's look at the correct spelling and meaning of the word.

• Acquaintance: a person one knows slightly, but who is not a close friend.

• Example: Sania said," I don't know Mr. Vijay personally, he is more of an acquaintance to me."

Hence, the correct answer is option 1.

Additional Information

• Let's look at the meaning of other words.

• Treacherous: guilty of or involving betrayal or deception.

• Serendipity: the occurrence and development of events by chance in a happy or beneficial way.

• Malicious: characterized by malice; intending or intended to do harm.

• All the other words are spelled correctly.

Q4. Answer: (a) at

The correct answer is "at".

Key Points

• In the given sentence the usage of the preposition "towards" is incorrect.

• We need to use the preposition "at" in the given sentence.

• The preposition "at" is used before specific times of the day.

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• The preposition "at" is also known as the preposition of time.

The correct sentence is: We will leave at 6.00 a.m.

Hence, the correct answer is option 1.

Q5. Answer: (a) Profane

The correct answer is "Profane".

Key Points

• Let's look at the meaning of the given word:

• Sacred: connected with God or a god or dedicated to a religious purpose and so deserving veneration.

• Let's look at the meaning of the given options:

• Profane: (of a person or their behavior) not respectful of religious practice; irreverent.

• Maniacal: exhibiting extremely wild or violent behavior.

• Inquisitive: having or showing an interest in learning things; curious.

• Rational: based on or in accordance with reason or logic.

• As per the meaning of the given words, "Profane" is the antonym of the word "sacred".

• Example: The priest warned, " Don't profane the lord's name."

Hence, the correct answer is option 1.

Q6. Answer: (b) Omniscient

The correct answer is "Omniscient".

Key Points

• Let's look at the meaning of the given options:

• Omnipotent: (of a deity) having unlimited power.

• Omniscient: knowing everything.

• Omnipresent: widely or constantly encountered; widespread.

• Omnivorous: (of an animal or person) feeding on a variety of food of both plant and animal origin.

• As per the meaning of the given words, "Omniscient" is the one-word substitute for the underlined group of words.

• Example: The omniscient narrator in the novel was a crucial part of the plot structure.

Hence, the correct answer is option 2.

Q7. Answer: (c) Bulwark

The correct answer is "Bulwark".

Key Points

• Let's look at the meaning of the given word.

• Rampart: a defensive or protective barrier.

• Let's look at the meaning of the given options.

• Denigration: the action of unfairly criticizing someone or something.

• Fortitude: courage in pain or adversity.

• Bulwark: a person or thing that acts as a defence.

• Portal: a doorway, gate, or other entrance, especially a large and imposing one.

• As per the meaning of the given words, "bulwark" is the synonym of "rampart".

• Example: The Covid-19 vaccines acted as a bulwark against the virus.

**Hence, the correct answer is option 3.

Q8. Answer: (c) Perusal

The correct answer is "Perusal".

Key Points

• Let's look at the meaning of the given words:

• Persuade: induce (someone) to do something through reasoning or argument.

• Perverse: showing a deliberate and obstinate desire to behave in a way that is unreasonable or unacceptable.

• Perusal: the examination or reading of something paying attention to details.

• Persiflage: light and slightly contemptuous mockery or banter.

• As per the meaning of the given words,"perusal" is the one-word substitute for the given group of words.

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• Example: The salesman said, "The catalogue is at your perusal in case you have any doubts regarding or company's products."

Hence, the correct answer is option 3.

Q9. Answer: (d) The opposition has defeated our team.

The correct answer is "The opposition has defeated our team."

Key Points

• There are a few things to keep in mind before changing a sentence from passive to active voice:

• The subject in the passive voice becomes the object in active voice.

• In the given sentence, "our team" becomes the object(receiver of action) of the sentence in the active voice.

• The subject can be omitted in the passive voice whereas the subject is highlighted in the active voice.

• In the given sentence, "the opposition" is the subject(doer of action) of the active voice.

• We can avoid the usage of "to be" constructions such as "been" in the active voice.

• The given sentence is in the simple past tense.

The correct sentence is: The opposition has defeated our team.

Hence, the correct answer is option 4.

Q10. Answer: (b) He saw us coming, and unaware that we had learned of his treachery, greeted us with a smile.

The correct answer is "He saw us coming, and unaware that we had learned of his treachery, greeted us with a smile."

Key Points

• In the given sentence, the tense of the verb "sees" is incorrect, as the given sentence is in past perfect tense.

• Options 1,3, 4 are grammatically incorrect.

• In option 1, the auxiliary verb "had" is missing before the past participle form of the verb "learned".

• In option 3, the tense of the main verb "learning" is incorrect, as the given sentence was in past perfect tense.

• In option 4, the tense of the verb "come" is incorrect.

• Option 2 is correct answer with the appropriate tense of the verb "sees" which is "saw".

The correct sentence is:He saw us coming, and unaware that we had learned of his treachery, greeted us with a smile.

Hence, the correct answer is option 2.

Q11. Answer: (d) living in the countryside

The correct answer is "living in the countryside"

Key Points

• Options 1,2,3 are grammatically incorrect:

• Option 1 incorrectly uses the infinitive form in "to have live".

• Option 2 has the incorrect tense of the verb in "lived".

• Option 3 has the incorrect infinitive form and tense of the verb "lived".

• Option 4 is grammatically correct. The given option is in the present tense.

The correct sentence is: Nowadays, many doctors advise living in the countryside.

Hence, the correct answer is option 4.

Q12. Answer: (b) premitivism

The erroneous spelling is "premitivism".

Key Points

• Let's look at the correct spelling and meaning of the word:

• Primitivism: a belief in the value of what is simple and unsophisticated, expressed as a philosophy of life or through art or literature.

• Example: Primitivism was a key inspiration for a lot of painting schools such as cubism, fauvism and post-impressionism.

Hence, the correct answer is option 2.

Additional Information

• Let's look at the meaning of the other words.

• radicalism: the beliefs or actions of people who advocate thorough or complete political or social reform.

• raged: feel or express violent uncontrollable anger.

• debates: an argument about a particular subject, especially one in which many people are involved.

• All the other words are spelled correctly.

Q13. Answer: (c) Hypocrite

The correct answer is "Hypocrite".

Key Points

• Let's look at the meaning of the given words:

• Canter: a pace of a horse or other quadruped between a trot and a gallop, with not less than one foot on the ground at any time.

• Autocrat: a ruler who has absolute power.

• Hypocrite: a person who acts in contradiction to his or her stated beliefs or feelings.

• Goody: a good or favoured person, especially a hero in a book, film, etc.

• As per the meaning of the given words, "hypocrite" is the one-word substitute for the underlined group of words.

• Example: Amitava is such a hypocrite as he claims to treat everyone equally but he often engages in favoritism with female employees.

The correct sentence is: At the party, Rohan was a hypocrite to influence the investors for his company's shares.

Hence, the correct answer is option 3.

Q14. Answer: (b) To look sad

The correct answer is "To look sad".

Key Points

• The meaning of the given idiom is "to look sad, glum, disapproving, etc."

• We use the given idiom in a situation where we have just heard a piece of disappointing news or witnessed something disheartening.

• Example: Our daughter pulls a long face every time we ask her to study.

Hence, the correct answer is option 2.

Q15. Answer: (c) mild

The correct answer is "mild".

Key Points

• Let's look at the meaning of the given words:

• slight: small in degree; inconsiderable.

• insipid: lacking flavor; weak or tasteless.

• mild: not severe, serious, or harsh.

• thin: with opposite surfaces or sides that are close or relatively close together.

• As per the meaning of the given words, "mild" is the appropriate option to fill in the blank.

• Example: The doctor told us that my son was suffering from a mild fever.

The correct sentence is: Towards the end of February the weather turned very mild.

Hence, the correct answer is option 3.

Q16. Answer: (d) personal

The correct answer is "personal".

Key Points

• Let's look at the meaning of the given words:

• person: a human being regarded as an individual.

• personnel: people employed in an organization or engaged in an organized undertaking such as military service.

• persona: the aspect of someone's character that is presented to or perceived by others.

• personal: belonging to or affecting a particular person rather than anyone else.

• As per the meaning of the given words, "personal" is the appropriate homonym to fill in the blank.

• Example: Rani said, "I don't want to talk about my marriage, it's a bit personal for me."

Hence, the correct answer is option 4.

Q17. Answer: (d) Faithful

The correct answer is "Faithful".

Key Points

• Let's look at the meaning of the given word:

• Treacherous: guilty of or involving betrayal or deception.

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• Let's look at the meaning of the given words:
• Fantastic: of extraordinary size or degree.
• Flexible: capable of bending easily without breaking.
• Fluent: able to express oneself easily and articulately.
• Faithful: remaining loyal and steadfast.
• As per the meaning of the given words, "Faithful" is the appropriate antonym for the word "treacherous".
• Example: Arjun was faithful to his wife so he chose not to remarry after his wife's death.
Hence, the correct answer is option 4.

Q18. Answer: (d) abundant

The correct answer is "abundant".
Key Points
• Let's look at the meaning of the given word.
• Scarce: occurring in small numbers or quantities; rare.
• Example: The crops wilted as the rains were scarce.
• Let's look at the meaning of the given options.
• strong: able to perform a specified action well and powerfully.
• mysterious: difficult or impossible to understand, explain, or identify.
• scant: barely sufficient or adequate.
• abundant: existing or available in large quantities; plentiful.
• As per the meaning of the given words, "abundant" is the appropriate antonym for the word mentioned in the bracket.
• Example: The rainfalls were abundant in nature so the villagers didn't need to store the rainwater.
The correct sentence is: There is abundant evidence that he is the thief.
Hence, the correct answer is option 4.

Q19. Answer: (a) cut in

The solution is in Hindi. Read it online.

Q20. Answer: (d) Pleasant condition of life

The correct answer is "Pleasant condition of life".
Key Points
• The meaning of the given idiom is "a place or situation of agreeable ease."
• We use the given idiom to refer to a situation where we are faced with a comfortable scenario.
• Example: My mother told me, " Life is not a bed of roses rather one has to work really hard to be successful".
Hence, the correct answer is option 4.

Q21. Answer: (a) a few

The correct answer is "a few".
Key Points
• We need to use the quantifier "a few" in the given sentence.
• We use the quantifier "a few" before plural countable nouns.
• The quantifier "a few" means some or a small number.
• In the given sentence, the quantifier "a few" is used before the plural noun "people".
Hence, the correct answer is option 1.

The complete passage is: Although everyone wants to be successful in life, there are (1) a few people who know the elements of success, the factors that go to build up success. Today, success is being (2) confused with making money, with amassing millions and billions. Some people equate it with power and position. Many of us tend to equate success with visible material acquisitions. Outer things and external achievements are not a (3)measure of success. Power, prestige, position, social influence and higher degrees awarded by universities - all these are outer things. They only touch the fringe of life; they do not enter the depths within. A man may have all these and yet maybe intellectually barren; he may be emotionally barren and spiritually sterile. Would you call such a man (4) successful? What then is success all about? What is true success? Success can be defined as the ability to be happy and make others happy; the ability to love and be loved; the ability to remain in peaceful (5) harmony with oneself; with those around you and with God's cosmic laws.

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Q22. Answer: (b) confused

The correct answer is "confused".

Key Points

• Let's look at the meaning of the given words:

• challenged: used to indicate that someone or something is lacking or deficient in specified respect.

• confused: (of a person) unable to think clearly; bewildered.

• decreased: make or become smaller or fewer in size, amount, intensity, or degree.

• amazed: greatly surprised; astonished.

• As per the meaning of the given words, "confused" is the appropriate word choice for the blank.

• The implied meaning of the given sentence is that success is misunderstood as having material wealth by amassing millions and billions.

Hence, the correct answer is option 2.

The complete passage is: Although everyone wants to be successful in life, there are (1) a few people who know the elements of success, the factors that go to build up success. Today, success is being (2) confused with making money, with amassing millions and billions. Some people equate it with power and position. Many of us tend to equate success with visible material acquisitions. Outer things and external achievements are not a (3)measure of success. Power, prestige, position, social influence and higher degrees awarded by universities - all these are outer things. They only touch the fringe of life; they do not enter the depths within. A man may have all these and yet maybe intellectually barren; he may be emotionally barren and spiritually sterile. Would you call such a man (4) successful? What then is success all about? What is true success? Success can be defined as the ability to be happy and make others happy; the ability to love and be loved; the ability to remain in peaceful (5) harmony with oneself; with those around you and with God's cosmic laws.

Q23. Answer: (b) measure

The correct answer is "measure".

Key Points

• Let's look at the meaning of the given words:

• Reasons: a cause, explanation, or justification for an action or event.

• Measure: assess the importance, effect, or value of (something).

• Thought: an idea or opinion produced by thinking, or occurring suddenly in the mind.

• Gift: a thing given willingly to someone without payment; a present.

• As per the meaning of the given words, "measure" is the appropriate option for the blank.

• The implied meaning of the given sentence is that external achievements or material things are not the ideal way to asses one's success.

Hence, the correct answer is option 2.

The complete passage is: Although everyone wants to be successful in life, there are (1) a few people who know the elements of success, the factors that go to build up success. Today, success is being (2) confused with making money, with amassing millions and billions. Some people equate it with power and position. Many of us tend to equate success with visible material acquisitions. Outer things and external achievements are not a (3)measure of success. Power, prestige, position, social influence and higher degrees awarded by universities - all these are outer things. They only touch the fringe of life; they do not enter the depths within. A man may have all these and yet maybe intellectually barren; he may be emotionally barren and spiritually sterile. Would you call such a man (4) successful ? What then is success all about? What is true success? Success can be defined as the ability to be happy and make others happy; the ability to love and be loved; the ability to remain in peaceful (5) harmony with oneself; with those around you and with God's cosmic laws.

Q24. Answer: (b) successful

The correct answer is "successful".

Key Points

• Let's look at the meaning of the given words:

• sober: not affected by alcohol; not drunk.

• successful: accomplishing a desired aim or result.

• sensible: done or chosen in accordance with wisdom or prudence; likely to be of benefit.

• thoughtful: absorbed in or involving thought.

• As per the meaning of the given words, "successful" is the appropriate option for the blank.

• The implied meaning of the given sentence is that would we call a person with only material wealth as prosperous in life.

Hence, the correct answer is option 2.

The complete passage is: Although everyone wants to be successful in life, there are (1) a few people who know the elements of success, the factors that go to build up success. Today, success is being (2) confused with making money, with amassing millions and billions. Some people equate it with power and position. Many of us tend to equate success with visible material acquisitions. Outer things and external achievements are not a (3)measure of success. Power, prestige, position, social influence and higher degrees awarded by universities - all these are outer things. They only touch the fringe of life; they do not enter the depths within. A man may have all these and yet maybe intellectually barren; he may be emotionally barren and spiritually sterile. Would you call such a man (4) successful? What then is success all about? What is true success? Success can be defined as the ability to be happy and make others happy; the ability to love and be loved; the ability to remain in peaceful (5) harmony with oneself; with those around you and with God's cosmic laws.

Q25. Answer: (a) harmony

The correct answer is "harmony".

Key Points

• Let's look at the meaning of the given words:

• Harmony: the situation in which people live or work happily together without any big problems

• Inner beauty: refers to the personality of a person including his/her mind and character.

• Pride: consciousness of one's own dignity.

• Praise: the expression of approval or admiration for someone or something.

• As per the meaning of the given words, "harmony" is the appropriate option for the blank.

• The implied meaning of the given sentence is that Success can be defined as the ability to be happy and make others happy; the ability to love and be loved; the ability to remain in peace and happiness with oneself and others.

Hence, the correct answer is option 1.

The complete passage is: Although everyone wants to be successful in life, there are (1) a few people who know the elements of success, the factors that go to build up success. Today, success is being (2) confused with making money, with amassing millions and billions. Some people equate it with power and position. Many of us tend to equate success with visible material acquisitions. Outer things and external achievements are not a (3)measure of success. Power, prestige, position, social influence and higher degrees awarded by universities - all these are outer things. They only touch the fringes of life; they do not enter the depths within. A man may have all these and yet may be intellectually barren; he may be emotionally barren and spiritually sterile. Would you call such a man (4) successful? What then is success all about? What is true success? Success can be defined as the ability to be happy and make others happy; the ability to love and be loved; the ability to remain in peaceful (5) harmony with oneself; with those around you and with God's cosmic laws.

Q26. Answer: (c) [figure]

The figure is given below:

The shaded portion is the embedded figure.

Hence, 'option 3' is the correct answer.

Q27. Answer: (b) OWKRRE

The pattern used in the given codes is:

• The first and second alphabets are interchanged.

• The third and fourth alphabets are interchanged.

• The fifth and sixth alphabets are interchanged.

Similarly,

Hence the correct answer is option 2)

Q28. Answer: (b) 246

The pattern followed here is:

6 × 2 + 4 = 16

16 × 2 - 3 = 29

29 × 2 + 4 = 62

62 × 2 - 3 = 121

121 × 2 + 4 = 246

Hence, the correct answer is "246".

Q29. Answer: (b) 132

There is an alternate use of × and + with the increasing terms.

Hence the correct answer is option 2)

Q30. Answer: (a) 4612-6412

Logic : When the digits of the first number are written in the descending order, second number is obtained.

Lets check each option:

1) 4612-6412

=> When the digits of the first number are written in the descending order, 6421 is obtained. But 6421 ≠ 6412.

2) 7938-9873

=> When the digits of the first number are written in the descending order, 9873 is obtained.

3) 5286-8652

=> When the digits of the first number are written in the descending order, 8652 is obtained.

4) 8734-8743

=> When the digits of the first number are written in the descending order, 8743 is obtained.

So "4612-6412" is the odd one out.

Hence, 'option 1' is the correct answer.

Q31. Answer: (a) [figure]

We unfold the paper step by step:

Now we consider the given options:

Option 1) The pattern matches completely.

Option 2) The arrangement of squares and circles is incorrect.

Option 3) The arrangement of squares and circles is unsymmetrical and incorrect.

Option 4) The arrangement of squares and circles is not positioned correctly.

Hence the correct answer is option 1)

Q32. Answer: (d) [figure]

The mirror image of the given pattern is:

Now we consider the given options:

Option 1) The pattern is upside down and it is incorrect.

Option 2) The pattern is upside down except for the mirror image of p but the option is incorrect.

Option 3) The pattern is partially correct but z and Q are not mirrored.

Option 4) The pattern matches completely.

Hence the correct answer is option 4)

Q33. Answer: (a) 184

The logic followed here is:

Logic: First number × 4 - 2 = Second number and Second number × 2 + 4 = Third number

First row: 9, 34, 72

=> 9 × 4 - 2 = 34

=> 34 × 2 + 4 = 72

Second row: 7, 26, 56

=> 7 × 4 - 2 = 26

=> 26 × 2 + 4 = 56

Third row: 23, 90, ?

by applying the same logic,

=> 23 × 4 - 2 = 90

=> 90 × 2 + 4 = 184

Hence, the correct answer is "184".

Q34. Answer: (d) 165

The pattern followed in the given rows is:

First term × 3 = Second term

First term × 5 = Third term

We apply the pattern on the given rows:

First row: 12, 36, 60

12 × 3 = 36; 36 = 36

12 × 5 = 60; 60 = 60

Second row: 24, 72, 120

24 × 3 = 72; 72 = 72

24 × 5 = 120; 120 = 120

Third row: 33, 99, ?

33 × 3 = 99; 99 = 99

33 × 5 =?

165 = Answer

Hence the correct answer is option 4)

Q35. Answer: (d) [figure]

The least possible Venn diagram is shown below according to the given data.

1) Galaxy is a gravitationally bound system of stars, stellar remnants, interstellar gas, dust and dark matter. It comprises of earth and moon.

Hence, the correct answer is "Option 4".

Q36. Answer: (c) b c d b b d

Given: d _ c d _ b_ d _ c d c _ d d b c _ c b d

Let's check each option:

1) b d d b b d → d b c d d b d - d b c d c b d - d b c d c b d

2) d c d d b d → d d c d c b d - d d c d c b d - d b c d c b d

3) b c d b b d → d b c d c b d - d b c d c b d - d b c d c b d

• Here, there is a repeating pattern.

4) d c d b b d → d d c d c b d - d b c d c b d - d b c d c b d

So, Option 3) gives a pattern of d b c d c b d - d b c d c b d - d b c d c b d.

Hence, ‘ b c d b b d ’ is the correct answer.

Q37. Answer: (b) 126

Given: 294, 326, 252, 273, 210, 220, 168, 167, ?

Logic followed here is :

Hence, option 2) is the correct answer.

Q38. Answer: (d) 2, 5, 4, 3, 1

The option that represents the correct order of the given words as they would appear in an English dictionary is shown below:

2. Malfunction

5. Manageable

4. Manipulation

3. Masterpiece

1. Mathematic

Hence, '2, 5, 4, 3, 1' is the correct answer.

Q39. Answer: (c) 415

The logic followed here is:

.

Hence, option 3) is the correct answer.

Q40. Answer: (d) (25, 11, 4)

The logic followed here is:

Logic: {(Second number)^2 + Third number} ÷ 5 = First number

1) (18, 5, 65) : $5^2 = 25 \rightarrow 25 + 65 = 90 \rightarrow 90 \div 5 = 18$

And

2) (14, 3, 61) : $3^2 = 9 \rightarrow 9 + 61 = 70 \rightarrow 70 \div 5 = 14$

Similarly,

$11^2 = 121 \rightarrow 121 + 4 = 125 \rightarrow 125 \div 5 = 25$

Hence, the correct answer is "(25, 11, 4)".

Q41. Answer: (b) QJSH

The pattern followed here is:

Only 2nd and 4th letter are changing. 1st and 3rd letter are same as it is, i.e. Q and S.

On continuing the same pattern, we get,

Hence, 'QJSH' is the correct answer.

Q42. Answer: (d) 84

The logic followed here is:

Logic: (first number - 1) × (second number -1) = Third number

1) 9, 7, 48 → (9 - 1) × (7 - 1) = 8 × 6 = 48

And,

2) 12, 5, 44 → (12 - 1) × (5 - 1) = 11 × 4 = 44

Similarly,

3) 8, 13,? → (8 - 1) × (13 - 1) = 7 × 12 = 84

Hence, "84" is the correct answer,

Q43. Answer: (a) 34

The logic followed here is:

Logic: (First number + Second number) ÷ Third number = 3

First row: 86, 82, 56 → (86 + 82) ÷ 56 = 3

Second row: 74, 67, 47 → (74 + 67) ÷ 47 = 3

Similarly,

Third row: 54, 48,? → (54 + 48) ÷ 34 = 3

Hence, "34" is the correct answer.

Q44. Answer: (c) TONAYLB

The pattern followed here is:

• In INCLUDE : CNILEDU

• • In KEYNOTE : YEKNETO

• • Similarly, In NOTABLY : ?

• We get 'TONAYLB'.

Hence, Option 3) is the correct answer.

Q45. Answer: (d) ZYPM

The logic followed here:

According to the given table, 1st and 2nd letters are interchanged and the letters opposite to them are used in their place, same with 3rd and 4th letter.

• In HEAT,

• • So, we get VSGZ.

• In CLAY,

• • So, we get 'OXBZ'.

• Similarly, in BANK,

• • So, we get 'ZYPM'.

Hence, option 4) is the correct answer.

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Q46. Answer: (a) 1, 3, 2, 4, 5

The option that represents the correct order of the given words as they would appear in an English dictionary is shown below:

1. Immense
3. Implied
2. Induce
4. Interim
5. Invalid

Hence, '1, 3, 2, 4, 5' is the correct answer.

Q47. Answer: (a) 2

The logic followed here is:

1) Only two people are taller than Q => _ > _ > Q

2) P is taller than Q but shorter than O => O > P > Q

3) M is taller than R but shorter than S => S > M > R

4) Only three people are taller than S => O > P > Q > S

5) N is the shortest among all => O > P > Q > S > M > R > N

So, the correct order following above logic will be => O > P > Q > S > M > R > N

So, there are two persons (S and M) between Q and R.

Hence, the option 1) is the correct answer.

Q48. Answer: (d) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below :-

Detailed Explanation :-

• The line MN is the mirror.

• The word "

" ends with "

". So, the mirror image will start with "

" → Options 3 is eliminated.

• The first letter is "

". So, the last word in the mirror image will be "

"→ Options 2 is eliminated.

• The fourth letter is "

". So, the number in the mirror image will be "

"→ Options 1 is eliminated.

Hence, Option 4) is the correct answer.

Additional Information

• In a mirror image Left changes to rightand theright changes to leftwheretop and bottom remains the same.

• When placement of mirror not given, by default we will assume it in vertical direction.

• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q49. Answer: (c) [figure]

The correct mirror image of the given combination when the mirror is placed at 'PQ' is as shown below:-

Detailed Explanation:-

• The line PQ is the mirror.

• The word "

" ends with "

". So, the mirror image will start with "

" → Options 2, 4 are eliminated.

• The first letter is "

". So, the last letter in the mirror image will be "

"→ Options 1 eliminated.

Hence, Option 3) is the correct answer.

Additional Information

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• In a mirror image Left changes to rightand theright changes to leftwheretop and bottom remains the same.
• When placement of mirror not given, by default we will assume it in vertical direction.
• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q50. Answer: (b) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below :-
Detailed Explanation :-
• The line MN is the mirror.
• The word "
" ends with "
". So, the mirror image will start with "
"
• The second last letter is "
". So, the second letter in the mirror image will be "
"→ Options 3,4 are eliminated.
• The third last letter is "
". So, the third letter in the mirror image will be "
"→ Options 1 is eliminated.
Hence, Option 2) is the correct answer.
Additional Information
• In a mirror image Left changes to rightand theright changes to leftwheretop and bottom remains the same.
• When placement of mirror not given, by default we will assume it in vertical direction.
• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q51. Answer: (a) 75°

Given:
ΔABC congruent to ΔDEF
AC = 2.5 cm,
BC = 5 cm,
angle C = 75°,
DE = 2.5 cm
DF = 5 cm
Concept used:
Congruent sides and angle of 2 congruent triangles
Calculations:
According to the question,
In ΔABC and ΔDEF
=> AC = 2.5 cm = DE
=> BC = 5 cm = DF
Then,
=> angle C = 75° = angle D [Angles of congruent triangles are also equal]
Therefore Angle D = 75°.

Q52. Answer: (c) 999/512

Given:
8x2 + 9x + 8 = 0
Calculations:
8x2 + 9x + 8 = 0
=> 8x2 + 8 = - 9x
=> 8x + 8/x = - 9
=> 8(x + 1/x) = - 9
=> (x + 1/x) = - 9/8
Now,

$(x^3 + 1/x^3) = (x + 1/x)^3 - 3 (x + 1/x)$

=> $(x3 + 1/x3) = (-9/8)^3 - 3 (-9/8)$

=> $(x3 + 1/x3) = (-729/512) + 27/8$

=> $(x3 + 1/x3) = (-729 + 1728)/512 = 999/512$

Therefore The value of the given equation will be 999/512.

Q53. Answer: (c) 100

Given:

The profit triples if the selling price is doubled.

Concept used:

Profit% = [(SP - CP)/CP] × 100

Calculations:

According to the question,

=> P = SP – CP .....(1)

It is given in the problem that on doubling the selling price, the profit triples, we have,

=> 3P = 2SP – CP .....(2)

Subtract (1) from (2), we get –

=> 3P - P = SP

=> SP = 2P .....(A)

Putting this in (1), we get,

=> P = 2P – CP

=> CP = P .....(B)

From (A) and (B), we get that SP = 2CP

[(2CP−CP)/CP]×100

=> CP/CP × 100 = 100%

Therefore The profit percentage is 100%.

Q54. Answer: (a) 2 1/2

Given:

A man can complete a work in 20 days

A woman can complete the same work in 10 days.

They work on it together for 5 days

Calculation:

According to the question,

1- day work of man = 1/20

1- day work of woman = 1/10

When they work together = 1/20 + 1/10 = 3/20

They did work together for 5 days = 5 × 3/20 = 3/4

Remaining work = 1 - 3/4 = 1/4

Time to complete 1/4 work only by woman = (1/4) ÷ (1/10) = 10/4 = 5/2

Therefore The woman will take 5/2 or 2 1/2 to complete the rest of the work.

Q55. Answer: (a) Rs. 15,000

Given:

A family spends 8% of its monthly income on charity.

The family spent Rs. 1,200 on charity.

Calculations:

Let the income of the family be 'x'

According to the question,

Charity = 8% of income

=> 1200 = 8% × x

=> x = (1200/8) × 100

=> x = 150 × 100 = Rs. 15000

Therefore The income in that month was Rs. 15000.

Q56. Answer: (b) 53

Given:

Numbers between 100 and 1000

Divisible by 17

Concept used:

Arithmetic Progression (an) = a + (n – 1) × d

Calculations:

1^(st) no. between 100 and 1000 divisible by 17 = 102

Last no. between 100 and 1000 divisible by 17

=> 1000/17 = 58 × 17 + 14

=> 1000 - 14 = 986

Now Series divisible by 17

AP = 102 + (n - 1)17

=> 986 = 102 + (n - 1)17

=> 884/17 = n - 1

=> n = 52 + 1 = 53

Therefore 53 numbers between 100 and 1000 are divisible by 17.

Q57. Answer: (d) 44.44%

Given:

Graph representing the sales of laptops from the year 2010-2013.

Calculations:

Increase in sales in 2013 as compared to 2012

=> 52 - 36

=> 16

Now, the percentage increase in sales = (increase in sales)/(previous sales) × 100

=> 16/36 × 100

=> 400/9 = 44.44%

Hence, The required percentage value is 44.44%.

Q58. Answer: (b) 8 cm

Given:

The area of a triangle is 96 cm2

The length of one of its sides is 24 cm.

Formula used:

Area of a triangle = 1/2 × Base × Height

Calculations:

Considering the side given as the Base of the triangle then,

According to the question,

96 = 1/2 × 24 × H

=> 96 = 12 × H

=> H = 96/12 = 8 cm

Therefore The length of the perpendicular is 8 cm.

Q59. Answer: (a) 9

Shortcut Trick

Subtract the power of the first term of the denominator from the first term of the numerator: 3 − 1 = 2.

The ratio of the entire sum simplifies to the base raised to this difference: 9^2.

Expression = $(9^2)^{(1/2)} = 9$.

Therefore The correct answer is 9.

Alternate Method

Given: [(9³ + 9^4 + 9^5 + 9^6 + 9^7) ÷ (9¹ + 9² + 9³ + 9^4 + 9^5)]^(1/2)

Formula Used: a^m × aⁿ = a^(m+n); √x = x^(1/2)

=> Numerator = 9³ + 9^4 + 9^5 + 9^6 + 9^7

=> Numerator = 9²(9¹ + 9² + 9³ + 9^4 + 9^5)

=> Expression = [9²(9¹ + 9² + 9³ + 9^4 + 9^5) ÷ (9¹ + 9² + 9³ + 9^4 + 9^5)]^(1/2)

=> Expression = (9²)^(1/2)

=> Expression = 9^(2 × 1/2)

=> Expression = 9¹ = 9

Therefore The correct answer is 9.

Additional Information

Product Law of Exponents

a^m × aⁿ = a^(m+n). When multiplying powers with the same base, the exponents are added.

Quotient Law of Exponents

a^m ÷ aⁿ = a^(m−n). When dividing powers with the same base, the exponents are subtracted.

Power of a Power Rule

(a^m)ⁿ = a^(m×n). A base raised to a power and then to another power results in the product of powers.

Radical to Exponent Conversion

The n-th root of a number can be written as an exponent: ⁿ√a = a^(1/n).

Q60. Answer: (d) 2

Formula used:-

sin 2θ = 2 sin θ × cos θ, tan θ + cot θ = 1/(sin θ × cos θ)

Calculation:-

The given expression is sin 2θ (tan θ + cot θ)

By using the above-mentioned formulas,

sin 2θ (tan θ + cot θ) = (2×sin θ×cos θ)× (1/(sin θ × cos θ))

On reducing the numerator and denominator,

sin 2θ (tan θ + cot θ) = 2

The value of the expression is 2.

Q61. Answer: (b) April and May

Calculation:-

Total number of scooters produced in January = 100

Total number of scooters produced in February = 105

Total number of scooters produced in March = 108

Total number of scooters produced in April = 110

Total number of scooters produced in May = 110

Total number of scooters produced in June = 90

As it is visible that the production in April and May is the same (110 scooters produced in each)

Therefore April and May are the two months where scooters produced by the company are equal.

Q62. Answer: (c) 24

Concept used:-

BODMAS [Brackets, of, division, multiplication, addition, subtraction]

Calculation:- Solving the expression which is inside the bracket,

=> 42 ÷ 7 × 12 ÷ 3

=> 6 × 4

=> 24

The value of the expression is 24.

Q63. Answer: (c) Rs. 4,000

Concept used:-

A% of B + C% of B = (A+C)% of B

Calculation:-
Let the salary of Bhanu be 'x'
According to question,
Bhanu is spending his complete salary on different things,
=> x = 20% of x + 10% of x + 14% of x + 18% of x + 20% of x + 1520
By the mentioned concept,
x = 62% of x + 1520
=> x = 62x/100 +1520
100x = 62x + 152000
38x = 152000
=> x = 4000
The monthly salary of Bhanu is Rs. 4000

Q64. Answer: (d) 31 : 17

Calculation:
Let the Number of students having Graphics be G,
Number of students having Graphics(G) = 12/100× 8000
Let the Number of students having Networking be N,
Number of students having Networking(N) = 19/100× 8000
Let the Number of students having C programming be C,
Number of students having C programming= 17/100× 8000
The ratio of the total number of students having either Networking or Graphics as their specialisations to the number of students having C programming will be (N + G) : C
N+G:C=((12/100 × 8000)+(19/100×8000))/((17/100×8000))
Reducing the 8000/100 from both the numerator and denominator then,
(N + G) : C = (12+19)/17
=> (N + G) : C = 31 : 17
The ratio of students having either Networking or graphics to the number of students having C programming is 31 : 17

Q65. Answer: (b) 3

Given:-
Interest rate(r) = 26% p.a.
Formula used:-
A = P×(1+r/n)^(nt)
Calculation:-
Let the initial amount be X
It is given that interest is compounded annually which signifies that n = 1
It is mentioned that the interest is getting double,
Let after time 'T' the final amount will be 2X
By using formula of compound interest using n = 1,
=> 2X=X× (1+r)^T
=> 2=(1+r)^T
Put the value of r = 26% in the equation,
=> 2=(1.26)^T
Taking log _(1.26) on both sides,
log _(1.26)^(2) = log _(1.26)^((1.26)^T)
=> log _(1.26)^(2) =T
T = 2.99 years
The total required to double the initial sum is 3 years(approx).

Q66. Answer: (c) 5 km/h and 3 km/h

Formula used:-
Distance = Speed × time

Calculation:-
Let the speed of watercraft be x and river be y
Speed of the watercraft while moving down = speed of watercraft + speed of river
Moving down = x + y
Speed of the watercraft while moving up(against the river) = speed of watercraft - speed of river
Moving up = x - y
Time taken by watercraft while moving down for 32 km is 4 hours,
By using the formula Speed=Distance/Time
=> (x + y) = 32/4
(x + y) = 8km/h ----------(i)
Time taken by watercraft while moving against for 10 km is 5 hours,
Then by using the formula for speed,
=> (x - y) = 10/5
(x - y) = 2km/h --------(ii)
On solving the equation (i) and (ii)
x = 5 km/h and y = 3 km/h
The speed of the watercraft and the river are 5 km/h and 3 km/h respectively.

Q67. Answer: (a) 77 km/h

Formula used:-
Average speed = Total distance travelled/Total time taken
Calculation:-
Let Roshni travelled 'd' distance with a speed of 66 km/h
and while returning she covered the same distance 'd' with the speed of 92.4km/h
Total distance covered = d + d = 2d
Let the time taken by Roshni wile going and retuning be T1 and T2 respectively
By using the formula,
Time = Distance/Speed
T1 = d/66 and T2 = d/92.4
Total time taken = T1 + T2 = d/66+d/92.4
Average speed = 2d/(T1+T2)
=> 2d/(d/66 + d/92.4)
=> 77km/h
The average speed of Roshni is 77km/h

Q68. Answer: (d) 39 years

Given:
Present age ratio = 7 : 9
After 10 years their age ratio = 19 : 23
Calculations:
Let their ages be 7x and 9y.
Then according to question after 10 years the ratio of their ages will be
=> (7x + 10)/(9x + 10)= 19/23
=> (7x + 10) × 23 = 19 × (9x + 10)
=> 161x + 230 = 171x + 190
=> 10x = 40
Hence, x = 4
Now, their present are 7x = (7 × 4) = 28 and 9x = (9 × 4) = 36.
Therefore, the average age after 7 years = {(28 + 7) + (36 + 7)}/2 = 78/2 = 39 years
Therefore The Required average age is 39 years.

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Q69. Answer: (c) 15127

Formula used:- $(a+b)^2=a^2+b^2+2ab$ and $(a-b)^2=a^2+b^2-2ab$

Calculation:- It is given that, $x-1/x=11$

On squaring both sides,

$(x-1/x)^2= (11)^2$

$x^2+1/(x^2)-2\times 1/x\times x=121$

$\Rightarrow x^2+1/(x^2)-2=121$

$\Rightarrow x^2+1/(x^2)=123$ ----------(i)

Squaring equation(i) on both sides,

$(x^2+1/(x^2))^2=(123)^2$

$\Rightarrow x^4+1/(x^4)+2\times 1/(x^2)\times x^2=15129$

$\Rightarrow x^4+1/(x^4)+2=15129$

$\Rightarrow x^4+1/(x^4)=15127$

The value of $x^4+1/(x^4)$ is 15,127

Q70. Answer: (a) Rs. 1,827

Formula used:-

Discount = (Marked price - Selling price)/(Marked price)

Calculation:-

It is given that Marked price(MP) = 2,900 and, Discount(D) = 37%

By using the formula of discount,

D=(MP - SP)/MP

37/100=(2900 - SP)/2900

$\Rightarrow 2900 \times 100 - 100 \times SP = 2900 \times 37$

$\Rightarrow SP = 29 \times 100 - 29 \times 37$

$\Rightarrow SP = 1827$

The selling price of the item is Rs.1,827

Q71. Answer: (c) 2483.712 cm3

Formula used:-

Volume = $4/3\pi r^3$

Calculation:-

Diameter = 2 × radius(r)

radius = 8.4 cm

Volume = $4/3\pi r^3$

Taking r = 8.4cm and $\pi = 22/7$

Volume = $4/3 \times 22/7\times (8.4)^3$

Volume = 2483.712 cm3

The volume of the sphere is 2483.712 cm3

Q72. Answer: (b) 20 : 27

Given:-

Radius ratio = 2 : 3 and Height ratio = 5 : 3

Formula used:-

Volume of cylinder = πr^2h

Calculation:-

Let the radius and height of cylinder-1 and cylinder-2 be r, h and R, H respectively

As given,

r : R = 2 : 3 = 2/3 and,

h : H = 5 : 3 = 5/3

Let their volumes be V1 and V2, So

V1= πr^2h and V2=$\pi R^2 H$

Ratio, V1/V2=$(\pi r^2h)/(\pi R^2H)$

On reducing π from numerator and denominator then by substituting the values of radius and heights,
$V1/V2=(2^2\times5)/(3^2\times3) = 20/27$
=> V1 : V2 = 20 : 27
The ratio of volumes of two cylinders is 20 : 27

Q73. Answer: (a) 10.8 km/h

Formula used:-
Average speed = Total distance/Total time taken
Calculation:-
The time taken by man to cover 10 km is,
Using formula, Distance = Speed × Time
T1 = Distance/Speed = 10/12 km/h
The time taken by man to cover 12 km is,
T2 = Distance/Speed = 12/10 km/h
Average speed = (Total distance)/(T1+T2) = (10+12)/(10/12+12/10)
=> 22×120/(100+144)
=> 2640/244
=> 10.81km/h
The average speed of the entire trip is 10.81 km/h.

Q74. Answer: (a) 6.37%

Given:-
Selling price = Rs.35,000
Trade discount = 10%, Final selling price = 30,000
Formula used:-
Discount = (Marked price - Selling price)/(Marked price)
Calculation:-
The Selling price after a 10% trade discount will be-
SP = Marked Price - (discount %) × Marked Price
SP = 35,600 - (10% × 35,600)
=> SP = Rs. 32,040
The phone was sold at Rs. 30,000
∴ Cash Discount = (Selling Price- Price at Sold)/(Selling Price)
=> (32,040-30,000)/(32,040) = (2,040)/(32,040)
=> 0.0636
Percent Cash Discount = 100 × 0.06367
=> Percent Cash Discount = 6.367%
On rounding off, The Percent Cash Discount = 6.37%
The percent cash discount given after 10% trade discount is 6.37%.

Q75. Answer: (d) 40 marbles

Given:
Ratio of shared marbles between A and B = 4 : 5
Number of marbles with B = 10 more than A
Concept Used:
Marbles with B – Marbles with A = 10
Calculation:
Let the number of marbles with A be 4x and with B be 5x
According to the question,
=> 5x – 4x = 10
=> x = 10
Now, Marbles with A = 4x = 4 × 10 = 40
Hence, the share of marbles with A is 40

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Q76. Answer: (b) Ganga basin

The correct answer is Ganga Basin.

Key Points

• Ganga Basin, is also known as the Ganges- Brahmaputra- Meghna River Basin.

• It is among the northern most flowing in the eastern direction.

• It has many tributaries Gomti, Ghandhak, Kosi, Ghaghra etc.

• This river flows from the Himalayas to the southern and eastern direction.

Additional Information

• Mahanadi Basin, is the major river of the central eastern indian. This basin also have a dam built on it. which is Hirakund Dam. Mahanadi flows through Chhattisgarh and Orissa, having the tributaries as hasdo, mand, onk, jonk, tel etc.

• Indus basin, is one among the largest river basin in india. It flows from BoKhar Chu Glacier to the western direction. between Zaskar and the Great Himalayas.

• This river has the length of 3180 km.

• Brahmaputra river ,is also known as Tsangpo Tibet, this river basin flows in the eastern most direction in the states of Arunanchal Pradesh and Assam moving towards the southern direction. Brahmaputra have many left-right tributaries as lohit, subanshiri, teesta, dibang, dihang etc.

Q77. Answer: (d) State of Haryana

The correct answer is State of Haryana.

Key Points

• The Supreme Court in the Pichra Warg Kalyan Mahasabha vs State of Haryana case reaffirmed that 'creamy layer' based on social forwardness.

• The petition challenged two notifications issued on August 17th, 2016, and August 28th, 2018 by the Haryana government.

• Sub-classifying backward classes solely on an economic basis while fixing the criteria for creamy layer.

Additional Information

• As per the notifications issued under the Haryana Backward Classes (Reservation in Services and Admission in Educational Institutions) Act of 2016.

• All children having “gross annual income” of up to Rs. 3 lakh annually would get the benefit of reservation in services and admission in educational institutions

• The remaining quota would go to those from backward families, which earn between Rs. 3 lakh and Rs. 6 lakh per annum.

Q78. Answer: (b) Banarasi Das Jain

The correct answer is Banarasi Das Jain.

Key Points

• Banarsidas was a poet. He was originally a Shrimal Jain merchant.

• He is known for his poetic autobiography Ardha Kathanak.

• This autobiography is in Brajbhasha.

• This is the first autobiography written in an Indian language.

• He was 55 years old at the time he composed this.

• Life in Jain tradition is considered to be 110 years, hence the autobiography was called Ardha Kathanaka.

Additional InformationMajor autobiography of Hindi and its author

Author	Autobiography
Dayanand Saraswati	Biography
Bhartendu Harishchandra	Kuchh Aap beeti kuchh Jag Beeti
Bhai Parmanand	Aap Beeti
Mahatma Gandhi	My Experiments with Truth
Subhash Chandra Bose	Tarun Ke Swapn

Q79. Answer: (d) Manipuri

The correct answer is Manipuri.

Key Points

• Manipuri

• Manipuri dance is the main classical dance form of India.
• The Manipuri language is named after its native place Manipur.
• The dance is based on Hindu Vaishnava themes and culminates with the love story of Radha and Krishna.
• The dance form is slow-moving and graceful, with the arms flowing to the fingers in a symbolic splendor.
• This dance form is based on its early customs and magical dance forms.
• Themes from the works of Vishnu Purana, Bhagavata Purana, and Gita Govinda are mainly used in this.

Additional Information

• Chhau
• Chhau is a folk dance practiced in the states of West Bengal, Odisha, and Jharkhand.
• There are three types – Seraikela Chhau, Mayurbhanj Chhau and Purulia Chhau.
• This dance is a mixture of Samprik custom and dance and it depicts fighting techniques and animal movements and movements.
• This dance is performed by male dancers who are traditional artists or people of the local community.
• Sattriya
• Sattriya dance is a classical dance form of Assam.
• The founder of this dance is the great saint Srimanta Sankardev.
• This dance form is a tradition going on for more than 500 years.
• This dance is a tradition of the Vaishnava monasteries of Assam, known as Satra.
• Kuchipudi
• Kuchipudi is a famous dance form in Andhra Pradesh, India.
• It is famous all over South India.
• The dance derives its name from the village Kuchipudi in Divi taluk of Krishna district, where Brahmins reside in this traditional dance practice.
• According to tradition, the Kuchipudi dance was originally performed only by men and that too only by men from the Brahmin community.

Q80. Answer: (a) Rs. 3 lakh

The correct answer is Rs. 3 lakh.

Key Points

• Sangeet Natak Akademi Fellowship is the highest honor conferred by Sangeet Natak Akademi without distinction of nationality, race, caste, religion, creed, or gender.
• The Academy's Fellowship is the most prestigious and rarest honor, which can be awarded to a maximum of 40 people at a time.
• The honor of the Akademi Fellow consists of a cash prize of Rs.3,00,000/- along with a copper plate and angavastram.
• Awards are given to artists in the field of overall contribution/scholarship in music, dance, theatre, traditional/folk/tribal music/dance/theatre, puppetry and performing arts, etc.
• The Akademi Award consists of a cash prize of Rs 1,00,000/- along with Tamrapatra and Angavastram.

Additional Information

What is Sangeet Natak Akademi?

• Sangeet Natak Akademi is India's national academy for music, dance, and drama.
• In 1952 by a resolution of the (then) Ministry of Education, the Government of India, Dr. P.V. Rajamannar as its first president.
• It is presently an autonomous body of the Ministry of Culture, Government of India, and is fully funded by the Government for the implementation of its schemes and programs. The Academy establishes and looks after institutions and projects of national importance in the field of performing arts. Some important ones are:
• National School of Drama, New Delhi was established in 1959.
• Jawaharlal Nehru Manipur Dance Academy at Imphal - 1954.
• Kathak Kendra (National Institute of Kathak Dance) New Delhi - in 1964.
• National projects to support Kutiyattam (Sanskrit theater of Kerala), Chhau dance of Eastern India, Sattriya tradition of Assam, etc.

Q81. Answer: (a) Lucknow

The correct answer is Lucknow

Key Points

• Lucknow has topped as per statistics published by National total number of crime incidences Records Bureau for 2020,
• The oldest and the most prestigious publication brought out by NCRB(National Crime Records Bureau)

• The data for the report is collected by State Crime Records Bureaux (SCRBx) from the District Crime Records Bureaux (DCRBx) and sent to NCRB at the end of every calendar year under the reference.

Additional Information

• Crime in India has been recorded since the British Raj, with comprehensive statistics now compiled annually by the National Crime Records Bureau, which is an Indian government agency responsible for collecting and analyzing crime data as defined by the Indian Penal Code and Special and Local Laws.

• A total of 51.5 lakh (5.15 million) cognizable crimes comprising 32.2 lakh Indian Penal Code (IPC) crimes and 19.4 lakh Special and Local Laws (SLL) crimes were registered nationwide

Q82. Answer: (b) The President of India

The correct answer is The President of India.

Key Points

• A judge of the Supreme Court can resign by writing the letter to the President.

• Article 124 (2) of the constitution - A judge of the Supreme Court can resign by writing to the President. The tenure of the Supreme Court judge is 65 years whereas a high court judge 62 years.

• The president of India, is the nominal head of the state. He is the first citizen of the country

Additional Information

• The Chief Justice Of India, is officially the chief Justice of the Supreme Court. He is among the highest ranking officers in the state.

• The law minister of India, falls under the ministry of Law and Justice, is seeks the legal matter of the state and also guides up the president, prime minister and t[other senior heads when in need.

Q83. Answer: (d) Haruki Murakami

The correct answer is Haruki Murukami.

Key Points

• Haruki Murakami, is a Japanese writer. His novels, and the short stories are among the top sellers books all around the globe.

• Millions of the people come ahead in reading his books which is not only sold in the streets of Japan but also in various other countries worldwide.

Additional Information

• Suematsu Kencho, is one among the Japanese Politician who has a greatest hold in the field of politics and open thoughts. He stood forward for the rights of the japenese people. He was a compassionate and a kind soul. Also, he has many books written by him among the famous ones are The Risen Sun, The Russia and Japan etc.

• Yukio Mishima, is the famous of the Japanese Author known worldwide, He came up with the masterpiece in writing the mist famous books of Yukio are The sound of waves, The sun and steel, Spring snow etc.

• Hiroaki Sato, is the famous basketball player of Japan. He is also the foundation member of the Chubu Electric Power Coportion. He is an intellectual human. He works and enlightened the youths of today in the greater aspects.

Q84. Answer: (d) Sublimation

The correct answer is sublimation.

Key PointsSublimation

• Sublimation is a physical change where substances directly change from solid to gas without passing through a liquid state.

• When a substance is heated from the solid state, it does not acquire the liquid state, but directly changes into the gaseous state, and on cooling again, it does not change from the gaseous state to the liquid state and directly into the solid state, this is called sublimation.

• The major examples of sublimation are iodine, camphor, naphthalene, ammonium chloride, solid carbon dioxide, etc.

• By this method camphor, naphthalene, ammonium chloride, anthracene, benzoic acid etc. substances are purified.

Additional Information

• Evaporation

• Evaporation is the process in which an element or compound changes into a gas state.

• In chemistry, the process of change from liquid to vapor is called 'evaporation'.

• There are two types of evaporation- evaporation and boiling.

• Condensation

• Condensation is the process in which atmospheric water vapor changes into water or ice particles.

• It is the exact opposite process of evaporation.

• When the temperature of a saturated air falls below the dew point, that air cannot hold as much moisture inside it as it previously

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held.

• Therefore, the excess amount of moisture gets converted into tiny water droplets or ice particles according to the temperature.

• Melting

• Melting is the physical process in which a solid substance changes into a liquid phase.

• The melting point of a solid is the temperature at which it melts from its solid state to a liquid state.

• The solid and liquid phases are in equilibrium at the melting point.

Q85. Answer: (d) Magnetic resonance imaging

The correct answer is Magnetic Resonance Imaging.

Key Points

• Magnetic Resonance Imaging

• Magnetic resonance imaging (MRI) is a type of scan that uses strong magnetic fields and radio waves to produce detailed images of the inside of the body.

• An MRI scanner is a large tube with a powerful magnet attached to it.

• You lie inside this tube during the scan.MRI scans can be used to examine almost any part of the body, including:

• brain and spinal cord bones and pairs

• breast

• heart and blood vessels

• internal organs, such as the liver, womb, or prostate gland

Additional Information

• Computed tomography

• Computed tomography also known as CT scan.

• Uses X-ray images to create a three-dimensional view of a body part or internal organ by a computer.

• This allows physicians to visualize tissues throughout the body, reducing the need for exploratory surgery.

• Fluoroscopy

• Fluoroscopy is a type of X-ray that shows the movement of organs, tissues or other internal structures in real time.

• Fluoroscopy is like a film, it shows the body systems in action.

• These include the cardiovascular, digestive, and reproductive systems.

• Positron emission tomography

• Positron emission tomography is a nuclear medicine imaging technique that produces a three-dimensional image or picture of the body's functional processes.

• This system detects pairs of gamma rays emitted indirectly by a positron-emitting radionuclide (tracer).

Q86. Answer: (b) Lap scorer

The correct answer is Lap Scorer.

Key Points

• Lap Scorer- The official charged with keeping track of lamps remaining in a race.

• Lap scorers are required to keep a record of laps covered by each competitor for races of one mile or longer (USATF), and

• times for each competitor's lap for races of three miles/3000 meters or more.

Additional Information

• LAP COUNTER:-

• Lap counters are used by swimmers, coaches, spectators, officials, and timers to keep track of how many laps a wimmer has completed.

• TIME KEEPER:-

• A person or thing that keeps or records time.

• LAP RECORDER:-

• The fastest time ever set for one lap around a particular racetrack or in a particular race.

Q87. Answer: (b) 2020

The correct answer is 2020.

Key Points

• Sonu Sood, an Indian actor and social worker, and Meena Iyer collaborated on the memoir "I Am No Messiah."

• The book was initially published by Penguin Publishers in December 2020.

• Sonu Sood tested positive for coronavirus illness on April 17, 2021.

Additional Information

• The autobiography of former Indian cricketer Sachin Tendulkar, "Playing It My Way," was published in 2014.

• Former Delhi CM Sheila Dikshit published her book "Dilli Meri Dilli: Before and After 1998" in 2018.

• 2007 saw Khaled Hosseini's "A Thousand Splendid Suns" spend 13 weeks at the top of the charts.

Q88. Answer: (d) The outermost electrons are farther away from the nucleus

The correct answer is The outermost electrons are farther away from the nucleus.

Key Points

• Tendency of an element to lose electrons increases when we go down the group.

• This is because atomic size increases when we go down the group.

• Force of attraction of nucleus for valence electrons decreases for the valence electrons decreases down the group.`

Additional Information

• An inert element has completely filled valence shell and thus has no capacity to bond to other atoms.

• The innermost electrons are farther away from the nucleus because in an atom, an electron is attracted to the nucleus by the "electromagnetic force", similar to your rubber band.

• Electrons that are closer to the nucleus are in filled orbitals and are called core electrons.

Q89. Answer: (d) 1

The correct answer is 1.

Key Points

• The National Bank for Financing Infrastructure and Development (NBFID) is set up as the principal development financial institution (DFIs) for infrastructure financing.

• NBFID is set up as a corporate body with authorised share capital of one lakh crore rupees.

• The government announced the appointment of veteran banker K.V. Kamath as chairperson.

Additional Information

• The government has set up NBFID as a development financial institution.

• The central bank, said NBFID will be regulated and supervised as an all India financial institution.

• It is under the RBI Act, 1934.

Q90. Answer: (b) Slumdog Millionaire

The correct answer is Slumdog Millionaire.

Key Points

• A.R. Rahman had won two Academy Awards in 2009 for Danny Boyle's Slumdog Millionaire.

• He won the award for both Best Original Score and Best Original Song for the single Jai Ho.

• A.R. Rahman won two awards at the Oscars.

Additional Information

• Roja had won the National award for best lyricist and best music director.

• Bombay Dreams is a Swedish comedy film from 2004.

• Nadine Kirschon won Best Actress 2005 at the GAFFA.

• German actor Emil Jannings won the Best Actor honor.

Q91. Answer: (a) Clay-pigeon shooting

The correct answer is Clay-pigeon shooting.

Key Points

• Clay-pigeon shooting, also known as clay target shooting.

• It is a shooting sport involving shooting a firearm at special flying targets known as clay pigeons or clay targets.

• The terminology commonly used by clay shooters.

Additional Information

• Trap shooting, or trapshooting in North America.

• It is one of the three major disciplines of competitive clay pigeon shooting.

• They are distinguished roughly as follows.

Q92. Answer: (b) 1911

The correct option is 1911.

Key Points

• The Gold-foil experiment is also known as the Geiger-Marsden Experiment.

• In this experiment, an alpha particle beam is scattered when it strikes a thin gold foil.

• The experiments were performed between 1908 and 1913 by Hans Geiger and Ernest Marsden under the direction of Ernest Rutherford.

• The result was published by them after the experiment was conducted by them in 1910.

• After the series of these experiments, it was concluded that every atom has a nucleus where all of its positive charge and most of its mass are concentrated.

Additional Information

Some other experiments/models on the structure of the atom:

Experiments/models	Name
Cathode-ray experiment	J.J. Thompson in 1897
Thomson's model of Atom	J. Thomson in 1898
Neils Bohr model	Neils Bohr in 1913

Q93. Answer: (c) Arjun Singh Dhurve

The correct option is Arjun Singh Dhurve.

Key Points

• Arjun Singh Dhurve was born on 12 August 1953 in the Dindori district in Madhya Pradesh.

• He is famous for popularising Baiga folk songs and dance.

• The Baiga Pardhauni dance is the main dance of the Baiga tribe.

• In this form of dance, the performers wear the masks of peacocks, elephants, horses, etc.

• He was also awarded by Tulsi Samman Award by Madhya Pradesh Govt in 1993-94.

• He also authored a book titled "Baiga Geet: Baiga Janjaati ke Prachalit Paramparik Geet" which was published in 2010 by Adivasi Lok Kala evam Boli Vikas Academy, Madhya Pradesh Sanskriti Parishad.

Additional Information

• Girdhari ram Gonjhu was awarded for his contribution to the field of literature and Education in Jharkhand posthumously in 2022.

• Shivaji Bhai Dholakia was awarded for his contribution to the field of social work in 2022 by the Government if India.

• He is a diamond businessman from Gujrat.

• Chandra Prakash Dvivedi was awarded for his contribution in the field of art.

• Total of 107 persons have been awarded by Padma Shri Award in 2022.

Q94. Answer: (b) GN Balasubramaniam

The correct option is GN Balasubramaniam.

Key Points

• Gudalur Narayanaswamy Balasubramaniam (6 January 1910 – 1 May 1965), popularly known as GNB, was an Indian Carnatic singer.

• He was born in Gudalur, a small village near Mayavaram in Tamil Nadu.

• He had also worked as an actor in the Tamil film industry.

• He had worked as the Deputy Chief Producer of Carnatic Music and also served as the Principal in Swathi Thirunal College of Music, Thiruvananthapuram, Kerala.

• He composed over 250 krithis (a format of musical composition typical to Carnatic Music), most in Telugu with a few in Sanskrit and Tamil.

Additional Information

• Purandara Dasa is known as the ‘Father of Carnatic Music'.

• Tyagaraja, Muthuswami Dikshitar, and Syama Shastri were the three saint composers of Carnatic Music of the 19th century.

• Sarangadeva, TM Krishna and O.S. Arun are some of the famous composers of Carnatic Music.

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Q95. Answer: (b) Hazrat Amir Khusrau

The correct option is Hazrat Amir Khusrau.

Key Points

• The full name of Hazrat Amir Khusrau was Abu'l Hasan Yamīn ud-Dīn Khusrau.

• He was an Indo-Persian Sufi singer, musician, poet and scholar who lived under the Delhi Sultanate.

• He was a disciple of Nizamuddin Auliya of Delhi.

• He is also known as 'father of Qawwali','Parrot of India' and also referred as 'father of Urdu Literature'.

• Amir Khusrau was the court poet of Alauddin Khilji.

Additional Information

• Hazrat Ali was a cousin, son-in-law and companion of the Islamic prophet Muhammad. He was killed by ibn Muljam, who wanted revenge for the Battle of Nahrawan.

• Hazrat Nizamuddin was an sunni muslim scholar, contemporary to Ghiyas-ud-din tughluq.

• Hazrat Nizamuddin Aulia was the teacher of Amir Khusrau. His tomb is in Delhi.

• Hazrat Shahenshahwali also known as Hussain Shah Wali was a sufi saint of Golkonda during the reign of Qutb-Sahi Dynasty. He died in 1620.

Q96. Answer: (a) Ankahee

The correct answer is Ankahee.

Key Points

• Ankakhee is one among the best movies that came into light in 2006.

• This movie is quiet loved by millions of the people all around the globe

•. This movie is among the best Bollywood movies which was been directed By Vikram Bhatt who is popular for his best movie themes all around and is loved by everyone mostly.

Additional Information

• Tansen Movie, is one among the romantic movies of the Bollywood which came into light in 1943. Tansen was also a great musician in the courts of the Mughal emperor Akbar. He was loved and praised by the people all around.

• Sandhaya Raga, is the Dramatic movie of 1989, which was one of the southern movies that came into prominent structure in the town of Chennai. The actual cost of the movie was quiet high. It was filled with the seats in the theatre when it had it first opening.

• Basant Bahar, is one among the most loved romantic and the dramatic movies of its times. The rating of this movie was not quiet high but was loved by the thematic structure it contains as a story.

Q97. Answer: (d) Carrot grass

The correct answer is Carrot Grass.

Key Points

• Parthenium hysterophorus L, commonly known as carrot weed white top or congress grass in India, is an herbaceous, erect and annual plant belonging to the family Asteracae (compositae).

• It is most popularly known as gajar ghas due to its appearance like carrot plant.

Additional Information

• Of the grass mixtures evaluated, horses preferred a stand of endophyte-free tall fescue, perennial ryegrass, Kentucky bluegrass, and timothy. However, over time, these pastures evolved to mostly tall fescue and Kentucky bluegrass. Horses had less preference for any pasture mix with 30 percent or more orchardgrass

• Cymbopogon, also known as lemongrass, barbed wire grass, silky heads, Cochin grass, Malabar grass, oily heads, citronella grass or fever grass, is a genus of Asian, African

• A lawn is an area of grass that is kept cut short and is usually part of someone's garden or backyard, or part of a park.

Q98. Answer: (a) Total stock of money alone in an economy determines the overall liquidity in the economy.

The correct Option is Total stock of money alone in an economy determines the overall liquidity in the economy.

Key Points

• The total stock of money alone in the economy determines the overall liquidity in the economy.

• The money can be from the various sources either internationally or the domestic which is gained more from the direct and the indirect taxes been charged by the government.

Additional Information

• Commercial banks use the primary deposits to credit creation, a bank accepts the cash from the people around and opens a deposit which is called the primary deposit.

• The money held by the government is not included in the measure of the money supply, the total amount of the money in the circulation in the country is called the money supply

• Credit money refers to money whose money value is more than commodity value.The credit value is greater than the intrinsic value.

Q99. Answer: (a) Chambal

The correct answer is Chambal.

Key Points

• The Chambal River is a tributary of the Yamuna River in Central and Northern India, and thus forms part of the greater Gangetic drainage system.

• The Chambal River is used for hydropower generation at Gandhi Sagar dam, Rana Pratap Sagar dam and Jawahar Sagar Dam.

Additional Information

• The Mahi is a river in western India. It rises in Madhya Pradesh and, after flowing through the Vagad region of Rajasthan, enters Gujarat and flows into the Arabian Sea

• The Varuna River is a minor tributary of the Ganges River in Uttar Pradesh, India. It originates at Phulpur in the Prayagraj district and merges into the Ganges.

• The Betwa is a river in Central and Northern India, and a tributary of the Yamuna. It rises in the Vindhya Range.

Q100. Answer: (c) Mark Twain

The correct answer is Mark Twain.

Key Points

• The Adventures of Huckleberry Finn, by American author Mark Twain, is a novel set in the pre-Civil War South

• It examines institutionalized racism and explores themes of freedom, civilization, and prejudice.

Additional Information

• Ernest Hemingway, is the american Novelist, a short story writer, and also a journalist of his time.

• Emily Bronte,was an English novelist and poet who is best known for her only novel, Wuthering Heights, now considered a classic of English literature

• Herman Melville, is the American novelist and a poet of the renaissance,

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