SSC CHSL Tier-1 2021: Official Paper (Held On : 24 May 2022 Shift 2) (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 most appropriate meaning of the idiom given in bold in the following sentence.

At supper, everyone was in high spirits.

(a) cheerful
(b) drunk
(c) nervous
(d) anxious

Q2. Select the option that will improve the underlined part of the given sentence.

One’s family plays a very major role to continue the trends and age-old traditions.

(a) passive role in making the trends
(b) futile part in making trends
(c) significant role in enduring the trends
(d) docile part in enduring trends

Q3. Direction: Select the most appropriate ANTONYM of the underlined word in the following sentence.

I felt terribly jaded after working all weekend.

(a) glutted
(b) refreshed
(c) spent
(d) vigorous

Q4. Select the correctly spelt word to fill in the blank.

The people from sub-continent are very _____.

(a) superstitios
(b) superstitious
(c) superstıcious
(d) supersctitious

Q5. Select the denotation of the highlighted word.

The guile of the businessman is well known to his contemporaries.

(a) Courage
(b) Shyness
(c) Gentleness
(d) Slyness

Q6. Select the option that expresses the given sentence in active voice.

A trip to the village temple was made by Bhavani yesterday.

(a) Bhavani was going to make a trip to the temple yesterday.
(b) Bhavani made a trip to the village temple yesterday.

(c) Bhavani tripped to the village temple yesterday.
(d) Bhavani is going to make a trip to the temple today.

Q7. Select the most appropriate option that can substitute the underlined segment in the given sentence.

He dreams big than his friends.

(a) bigger
(b) more big
(c) biggest
(d) most big

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

Unable to speak distinctly or express oneself clearly

(a) Inane
(b) Inapt
(c) Inarch
(d) Inarticulate

Q9. Select the most appropriate synonym of the word given in the brackets to fill in the blank.

The university team won the match in the end with a _____ (cunning) move.

(a) brilliant
(b) slick
(c) random
(d) quick

Q10. Select the most appropriate meaning of the given idiom.

Gear up for

(a) Start off
(b) Pass into
(c) Get ready for
(d) Put on

Q11. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. The first time that I was seated behind a curtain in a dining car, I felt as if the curtain had been dropped on my selfhood and could never adjust to the separate waiting rooms, separate eating places, separate rest rooms, partly because the separate was always unequal, and partly because the very idea of separation did something to my sense of dignity and self-respect.

B. One Sunday, we went to church in Simsbury, and we were the only Negroes there and on Sunday mornings I was the religious leader and spoke on any text I wanted to 107 boys.

C. Just before going to college I went to Simsbury, Connecticut, and worked for a whole summer on a tobacco farm to earn a little school money to supplement what my parents were doing.

D. After that summer in Connecticut, it was a bitter feeling going back to segregation and it was hard to understand why I could ride wherever I pleased on the train from New York to Washington and then had to change to a Jim Crow car at the nation’s capital in order to continue the trip to Atlanta.

(a) ADBC
(b) BCDA
(c) CBDA
(d) CDBA

Q12. Select the most appropriate meaning of the given idiom.

Call upon

(a) To adjust
(b) To stop
(c) To follow

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(d) To order

Q13. Select the option that expresses the given sentence in passive voice.

The boy kicked the ball high into the air.

(a) The ball will be kicked high into the air by the boy.
(b) The ball was kicked high into the air by the boy.
(c) The boy kicks the ball high into the air.
(d) The boy had kicked the ball high into the air.

Q14. Select the most appropriate option to fill in the blank.

A wise king's wisdom _____the land like the sun.

(a) illuminates
(b) darkens
(c) dims
(d) spreads

Q15. Select the option that can be used as a one-word substitute for the given group of words.

A small organized dissenting group within a larger one.

(a) Band
(b) Set
(c) Faction
(d) Cluster

Q16. Select the most appropriate synonym of the given word.

Abundant

(a) Abysmal
(b) Ephemeral
(c) Scarce
(d) Plentiful

Q17. Select the option that expresses the given sentence in passive voice.

Kiara will sign all the documents tomorrow.

(a) Kiara was to be signed by tomorrow for all the documents.
(b) Tomorrow Kiara will be signed by all the documents.
(c) All the documents will be signed by Kiara tomorrow.
(d) Kiara would have been signed tomorrow by all the documents.

Q18. Select the most appropriate ANTONYM of the highlighted word.

The malice he developed for all caused a lot of damage.

(a) avarice
(b) grace
(c) sympathy
(d) oppression

Q19. Select the INCORRECTLY spelt word.

(a) Efficient
(b) Layer
(c) Committee
(d) Feeld

Q20. Select the INCORRECTLY spelt word.

(a) Martinet
(b) Congenital
(c) Phlegmatic

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(d) Occular

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.

Novelists when they write novels, tend to take an almost god-like attitude (1) _____ their subject, pretending to have a total comprehension of the story, a man's life, (2) _____ they can therefore recount as God Himself might, nothing standing between them and the naked truth, the entire story meaningful in (3) _____ detail. I am as little able to do this as the novelist is, even though my story is more important to me than any novelist's is to him – for this is my story; it is the story of a man, not of an invented, or possible, or idealized or otherwise (4) _____ figure, but of a unique (5) _____ of flesh and blood.

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

(a) despite
(b) under
(c) through
(d) towards

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

(a) whose
(b) whom
(c) who
(d) which

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

(a) every
(b) self
(c) last
(d) present

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

(a) callous
(b) absent
(c) ordinary
(d) profuse

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

(a) organism
(b) being
(c) cripple
(d) stance

GENERAL INTELLIGENCE

Q26. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

25 * 5 * 10 * 2 * 8 * 60

(a) ÷,×,+,–, =
(b) ÷,×,–,+, =
(c) ×, ÷,–,+, =
(d) –,+,÷,×, =

Q27. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

42 * 4 * 69 * 3 * 29 * 60 * 5

(a) +,=,–,×,÷,–
(b) ×,–,=, ×,+,÷

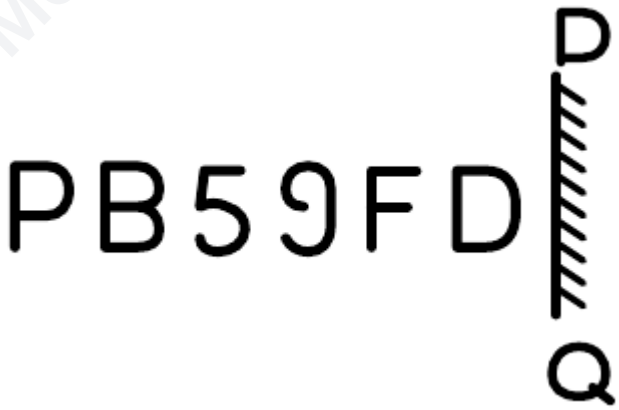
(c) +,÷,=,−,×,+
(d) −,=,×,+,×,÷

Q28. Which of the following numbers will replace the question mark (?) in the given series?
286, 303, 320, 371, 422, 507, ?
(a) 626
(b) 592
(c) 602
(d) 582

Q29. Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1. Dish
2. Disease
3. Discuss
4. Disjoin
5. Disgrace

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

Q30. 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)



Q31. 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.

DETAILS : TEDASLI :: EMPATHY : PMEAYHT :: FORMULA : ?

(a) ROFMALU
(b) RFMALUO
(c) RFOMALU
(d) ALUMROF

Q32. In a certain code language, 'WORTH' is written as 'ZRRWK' and ‘TRACK’ is written as ‘WUAFN’. How will 'FAITH' be written in that language?

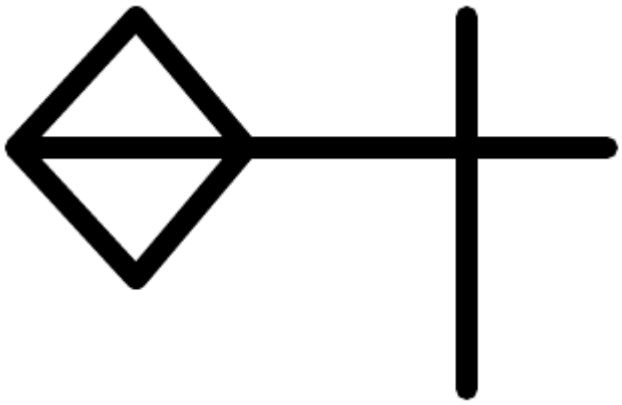
(a) JDIWK
(b) HDIWL
(c) KDIVK
(d) IDIWK

Q33. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

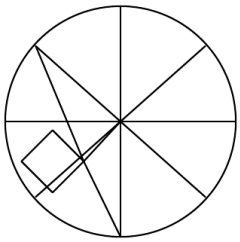
52 : 5 :: 100 : 7 :: 164 : ?

(a) 7
(b) 8
(c) 11
(d) 9

Q34. Select the option figure in which the given figure (X) is embedded as its part.

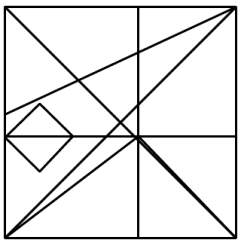


(a)

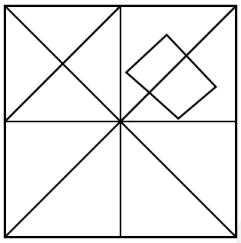


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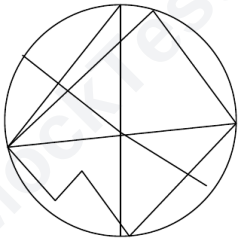
(b)



(c)



(d)



Q35. Select the option that represents the letters that, when placed from left to right in the blanks, will complete the letter series.

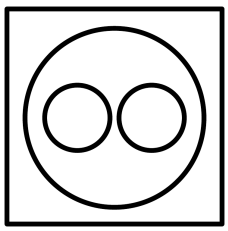
S _ O Z Q T L O _ Q U _ O _ Q V L O Z _

(a) L Z L Z Q
(b) Z L Z Q L
(c) Z L Q L Z
(d) L Z Q Z L

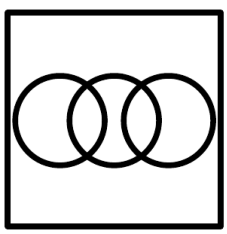
Q36. Select the Venn diagram that best represents the relationship between the following classes.

Bed, Bedroom, House

(a)

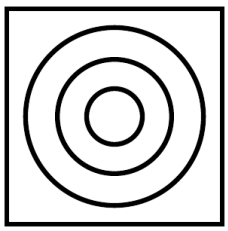


(b)

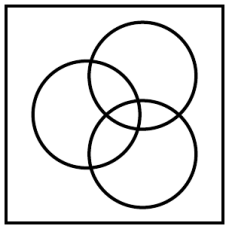


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(c)



(d)



Q37. In a certain code language, 'SAMPLE' is written as ‘RYJLGY’ and ‘MAPLE’ is written as ’LYMHZ’. How will 'PEOPLE' be written in that language?

(a) OCLLGL
(b) GCLLGY
(c) OBGLGY
(d) OCLLGY

Q38. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

91 * 15 * 5 * 18 * 37

(a) =, ÷, ×, +
(b) +, =, ×, −
(c) +, −, =, ×
(d) −, =, +, −

Q39. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

37 * 3 * 21 * 79 * 18 * 4 * 19

(a) −, −, =, ×, +, ÷
(b) ×, +, −, =, ×, −
(c) +, ×, −, =, +, −
(d) =, −, ×, +, −, ×

Q40. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

25 * 5 * 10 * 2 * 8 * 44

(a) ÷, ×, +, –, =
(b) ×, ÷, –, +, =
(c) ÷, ×, –, +, =
(d) –, +, ÷, ×, =

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

DRBZ, ABKX, ?, UVCT, RFLR

(a) YDMC
(b) YDBE
(c) XUIV
(d) XLTV

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Q42. The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number-pairs EXCEPT one. Find that odd number-pair.

(a) 169 : 14
(b) 225 : 18
(c) 196 : 17
(d) 256 : 19

Q43. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

16 * 4 * 8 * 10 * 2 * 24

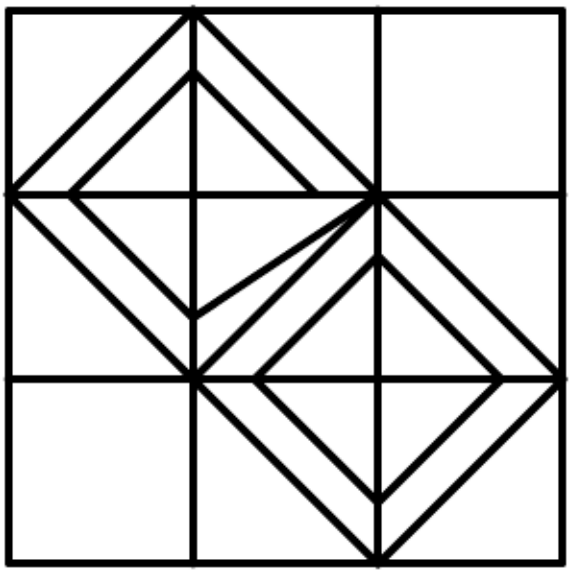
(a) ÷, ×, –, +, =
(b) –, ÷, +, ×, =
(c) ×, ÷, –, +, =
(d) ÷, +, ×, –, =

Q44. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Negotiation
2. Negate
3. Networking
4. Negligible
5. Newspaper

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

Q45. How many squares are there in the given figure?



(a) 24
(b) 9
(c) 12
(d) 18

Q46. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

57 * 35 * 44 * 11 * 13 * 74

(a) +, –, ×, ÷, =

(b) +, –, ÷, ×, =
(c) ×, +, ÷, –, =
(d) –, +, ÷, ×, =

Q47. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



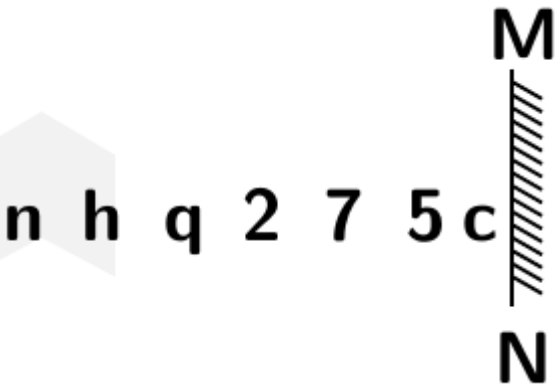
(c)



(d)



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



(a)



(b)



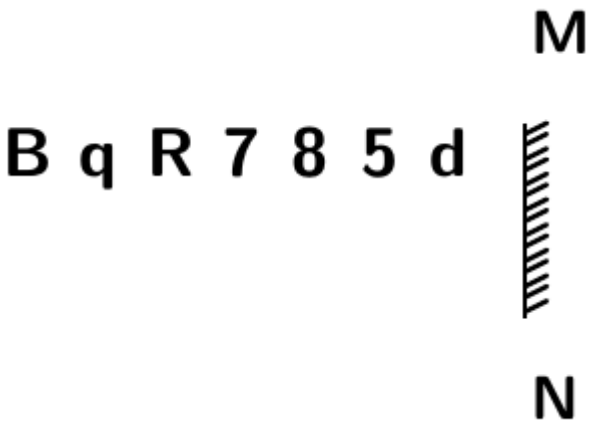
(c)



(d)



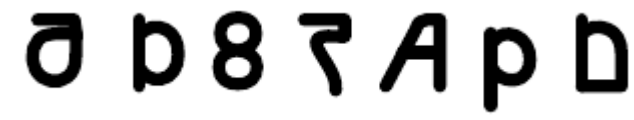
Q49. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



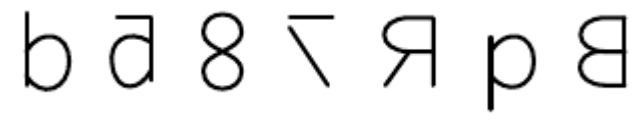
(a)



(b)



(c)



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(d)



Q50. 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.

AMOUNT : MOUNT :: BRIDGE : RIDGE :: BRIGHT : ?

(a) RIGHT
(b) SIGHT
(c) KIGHT
(d) NIGHT

QUANTITATIVE APTITUDE

Q51. If the volume of a cube is 27 m^3, find its surface area (in m^2).

(a) 9
(b) 27
(c) 54
(d) 24

Q52. A trader marks his goods at 45% above the cost price. He offers a discount of 21% to his customers. What is his percentage profit (rounded off to the nearest integer)?

(a) 12%
(b) 18%
(c) 14%
(d) 15%

Q53. Which of the following numbers is divisible by 7?

(a) 3739
(b) 3661
(c) 3659
(d) 3915

Q54. A new mobile is introduced into the market and is marked at 25% above its original cost price. What discount should be given on the marked price to gain a profit of 20%?

(a) 2.50%
(b) 5%
(c) 4%
(d) 10%

Q55. If $2a + b = 10$, $2ab = 9$, and $2a > b$, then find the value of $2a – b$.

(a) 12
(b) 6
(c) 8
(d) 10

Q56. Find the mean proportion of 3 and 27.

(a) 5
(b) 10
(c) 6
(d) 9

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Q57. Shovik purchases two types of sugar: the first type at Rs. 45 per kg and the second type at Rs. 80 per kg. In what ratio should Shovik blend the first type of sugar with the second type so that, by selling each kg of the blended sugar at Rs. 72 per kg, he makes a profit of 20%?

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

Q58. Find the volume of a hemisphere whose diameter is 6 cm. (Take π=22/7)

(a) 144π cm^3
(b) 48π cm^3
(c) 18π cm^3
(d) 36π cm^3

Q59. The value of 11 ÷ [1 + 1 ÷ {1 + 1 ÷ (1 + 1 ÷ 3)}] is:

(a) 1
(b) 7
(c) 9
(d) 11

Q60. If a + b = 12 and ab = 35, find the value of a^4 + b^4 – 10^3?

(a) 2226
(b) 2026
(c) 2126
(d) 1226

Q61. The table below gives the numbers of seats own in the local body elections in a state by different political parties in the years 2019 and 2014.

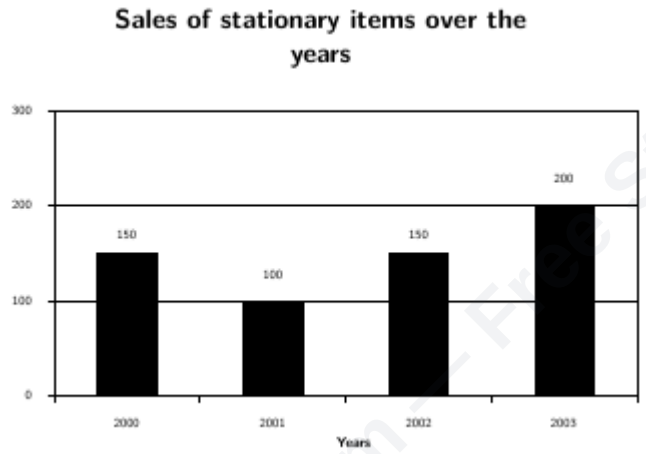
Name of the Party	Result in 2019	Result in 2014
AGP	303	282
Con Party	52	43
CMK	23	0
AICT	22	34
Kanta Dal	16	2
Shiv Party	18	18

Find the ratio of the total number of seats won by Con party in 2014, Kanta Dal in 2019, and the Shiv Party in 2019 taken together to the number of seats won by AGP in 2014.

(a) 77 : 282
(b) 77 : 141
(c) 283 : 77
(d) 145 : 77

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Q62.



Find the approximate percentage increase in sales from 2002 to 2003?

(a) 33.3%
(b) 19%
(c) 54%
(d) 25%

Q63. Inside a triangle ABC, a straight line parallel to BC intersects AB and AC at the points P and Q, respectively. If AB = 6PB, then PQ : BC is _____.

(a) 2 : 6
(b) 3 : 4
(c) 5 : 4
(d) 5 : 6

Q64. The heights of 48 students of a class are shown in the following table.

Height (in cm)	No. of students
up to 150	12
up to 155	16
up to 160	18
up to 165	33
up to 170	48

What is the percentage of students whose height is more than 160 cm?

(a) 37.5%
(b) 66.6%
(c) 33.3%
(d) 62.5%

Q65. Simplify:

3p - [3p - p+q - {3p - (p - q-p)}]

(a) 3p – q
(b) p + 2q
(c) 3p + 2q
(d) 2p + 2q

Q66. In a test, the average score of 50 students is 66. Out of the total students, 40% are girls and the rest are boys. The average score of the boys is 20% less than that of the girls. What is the average score of the girls?

(a) 70
(b) 80

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(c) 75
(d) 65

Q67. If the base radius and height of a cylinder are 4 cm and 5 cm, respectively, then find the curved surface area of the cylinder [use π = 3.14].
(a) 125.6 cm2
(b) 138 cm2
(c) 129.8 cm2
(d) 119.6 cm2

Q68. Sin (−A) = ?
(a) Cos A
(b) −Cos A
(c) −Sin A
(d) Sin A

Q69. The population of a village is 9,000. If the annual birth rate is 12.5% and the annual death rate is 2.5%, calculate the population after three years.
(a) 12256
(b) 11979
(c) 10959
(d) 10755

Q70. In an election between two candidates, Ravi gets 65% of total valid votes. If total votes were 6000, what is the number of valid votes that the other candidate Sushil gets, if 25% of total votes were invalid?
(a) 1775
(b) 1625
(c) 1575
(d) 1525

Q71. Find the average of the following data :
1, 2, 3, 5, 17, 21 and 28
(a) 13
(b) 11
(c) 9
(d) 12

Q72. A and B together can do a piece of work in 12 days, while A alone can complete the same work in 18 days. How long will B alone take to complete the work?
(a) 6 days
(b) 12 days
(c) 24 days
(d) 36 days

Q73. A man can row 5 km/h in still water. If the speed of the current is 2.5 km/h, it takes 4 hours more in upstream than in the downstream for the same distance. The distance is:
(a) 10.5 km
(b) 15 km
(c) 7.5 km
(d) 12 km

Q74. A man P purchased a land for Rs. 4,32,000 on the outskirts of a city. Due to some reason, its value depreciated at 25% per annum and he sold it to Q after 2 years. At this time, the city expanded and new projects of infrastructures started coming up. As a result of the expansion, there was an appreciation of real estate prices at the rate of 50%. What would be the value (in Rs.) of the land after 2 years, from the time Q bought the land from P?
(a) Rs. 5,46,750

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(b) Rs. 5,57,450
(c) Rs. 5,76,450
(d) Rs. 6,05,070

Q75. A shopkeeper marks up his goods by 30% and then gives a discount of 10% on the marked price. Apart from this, he uses a faulty balance which reads 1 kg for 870 g. What is his net profit percentage?
(a) 38.42%
(b) 34.84%
(c) 34.48%
(d) 38.24%

GENERAL AWARENESS

Q76. Dr. Sunanda Nair is recognised as a _____ performer, teacher, and proponent.
(a) Mohiniyattam
(b) Kathak
(c) Kuchipudi
(d) Kathakali

Q77. Which of the following books is NOT written by Arundhati Roy?
(a) Capitalism
(b) Private Life of An Indian Prince
(c) The God of Small Things
(d) An Ordinary Person's Guide to Empire

Q78. Which of the following has launched the 'DBT-Star College Mentorship Programme' in November 2021?
(a) Ministry of Science and Technology
(b) Ministry of Tourism
(c) Ministry of Heavy Industries and Public Enterprises
(d) Ministry of Shipping

Q79. Isopentane, also called _____, is a branched-chain saturated hydrocarbon with the chemical formula C5H12.
(a) dimethylbutane
(b) isobutane
(c) 2-methylbutane
(d) butadiene

Q80. Which of the following countries will jointly organise the FIH Women's Hockey World Cup from 1 to 17 July 2022?
(a) Spain and Germany
(b) Spain and Netherlands
(c) India and Sri Lanka
(d) India and Pakistan

Q81. Who among the following won Arjuna Award 2021 in Kabaddi discipline?
(a) Ajay Thakur
(b) Tejaswini Bai V
(c) Sandeep Narwal
(d) Jasvir Singh

Q82. Padma Shri awardee Gopal Prasad Dubey was awarded for his contribution to which of the following dances?
(a) Sattriya
(b) Panthi
(c) Chhau
(d) Mohiniyattam

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Q83. Where is sodium located on the periodic table?

(a) Bottom of the table
(b) Top period
(c) On the right side
(d) On the left side

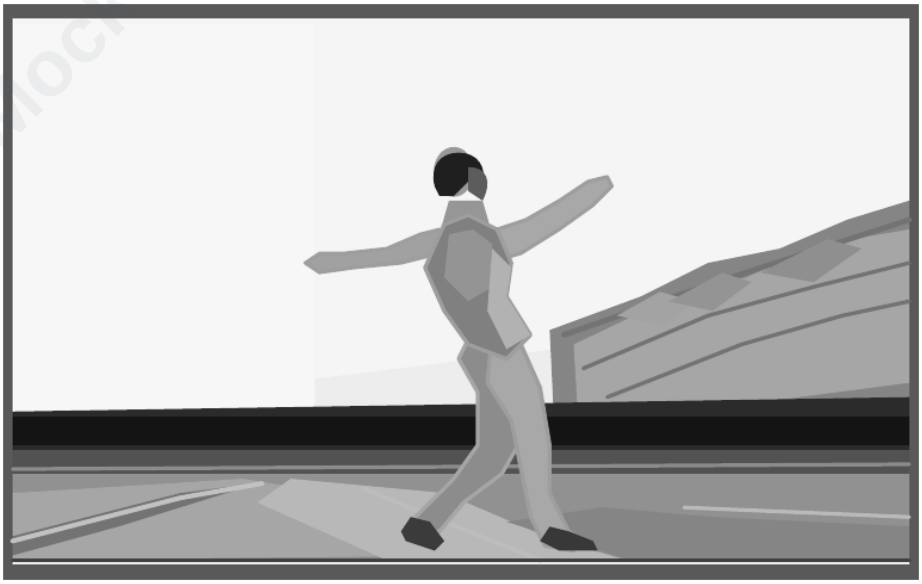
Q84. Recently, some mail channels have been introduced to facilitate quick delivery of mail in large towns and cities in India. Which of the following is NOT a part of these mail channels?

(a) State Channel
(b) Rajdhani Channel
(c) Metro Channel
(d) Green Channel

Q85. Who is the first Indian musician to win the Oscar award for Best Original Score?

(a) Bhanu Athaiya
(b) Resul Pookutty
(c) Mehboob Khan
(d) A.R. Rahman

Q86. Name the track and field event shown in the figure below.



(a) Discus throw
(b) Javelin throw
(c) Putting the shot
(d) Hammer throw

Q87. What is the position of non-metals in the periodic table?

(a) Bottom of the table
(b) On the right side
(c) On the left side
(d) Top period

Q88. Which of the following is the youngest percussionist to be awarded Padma Shri and Padma Bhushan awards by the Government of India?

(a) T H Vinakram
(b) Sivamani
(c) Sarvar Sabri
(d) Zakir Hussain

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Q89. Which cell theory proved that the quasi-fluid nature of lipid enables lateral movement of proteins within the overall bilayer?

(a) Cell theory
(b) Fluid mosaic model
(c) Model of Golgi bodies
(d) Vacuole theory

Q90. Identify the correct statement in relation to ampere.

(a) One ampere is constituted by the flow of one coulomb of charge per minute
(b) One ampere is constituted by the flow of two coulomb of charge per second
(c) One ampere is constituted by the flow of one coulomb of charge per second
(d) One ampere is constituted by the flow of half coulomb of charge per second

Q91. In the absence of the Speaker and the Deputy Speaker of Lok Sabha, who presides the joint sitting of the two houses of Parliament?

(a) Chairman of Rajya Sabha
(b) Any senior member of Rajya Sabha
(c) Deputy Chairman of Rajya Sabha
(d) Any senior member of Lok Sabha

Q92. Shamshad begum, one of the first women to sing playback for Hindi movies, was conferred with the prestigious OP Nayyar Award for her contribution to Hindi film Music in the year _____.

(a) 2001
(b) 2009
(c) 2012
(d) 2005

Q93. Who among the following Indian classical musicians was the very first to be presented with the Bharat Ratna, India's highest civilian honour?

(a) Madurai Shanmukhavadivu Subbulakshmi
(b) Bismillah Khan
(c) Lata Mangeshkar
(d) Ravi Shankar

Q94. The Health Minister relaunched the intensified version 4.0 of the largest global inoculation drive in February 2022. What is the name of this Mission which covers crores of pregnant women and children?

(a) Mission Arogya
(b) Mission Shakti
(c) Mission Indradhanush
(d) Mission Suraksha

Q95. Which of the following Marathi writers was the author of the autobiography 'Majya Jalmachi Chittarkatha'?

(a) Kusumagraj
(b) Sunita Deshpande
(c) Shivaji Sawant
(d) Shantabai Krushnaji Kamble

Q96. Usually, which year of a series of years in an economic index is called the base year?

(a) First year
(b) Twentieth year
(c) Tenth year
(d) Last year

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Q97. Identify the terrestrial planet from among the following.

(a) Uranus
(b) Jupiter
(c) Mercury
(d) Neptune

Q98. Meenakshi Srinivasan received the Ustad Bismillah Khan Yuva Puraskar 2011 for which of the following dance forms?

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

Q99. When was the Sri Shanmukhananda National Eminence Award set up?

(a) 2001
(b) 2002
(c) 2000
(d) 2003

Q100. 'The God of Small Things', a winner of the 1997 Booker Prize, is the debut novel of which of the following Indian writers?

(a) Jhumpa Lahiri
(b) Kiran Desai
(c) Anita Desai
(d) Arundhati Roy

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) cheerful

The solution is in Hindi. Read it online.

Q2. Answer: (c) significant role in enduring the trends

The correct answer is 'significant role in enduring the trends'.

Key Points

• The given sentence points out the importance that a person's family has in maintaining familial trends and age-old traditions.

• Passive, futile and docile give a meaning which implies that the family does not have a big role to play in maintaining old traditions.

• But, by using 'significant', this concept is established.

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• Hence, option3 is the correct answer.

Correct sentence - One’s family plays a very significant role in enduring the trends and age-old traditions.

Q3. Answer: (b) refreshed

The correct answer is 'refreshed'.

Key Points

• Jaded is an adjective that means bored or lacking enthusiasm, typically after having had too much of something.

• The meaning of the given options is as follows -

• glutted - supply or fill to excess.

• refreshed - having regained strength or energy.

• spent - having no power or energy left.

• vigorous - strong, healthy, and full of energy.

• From the above meanings, it is evident that refreshed is the correct antonym for the word jaded.

• Hence, option 2 is the correct answer.

Q4. Answer: (b) superstitious

The correct answer is 'superstitious'.

Key Points

• The correct spelling is - superstitious.

• Superstitious is an adjective which means having or showing a belief in superstitions.

• All the other given options have incorrect spelling.

• Hence, option 2 is the correct answer.

Correct sentence - The people from the sub-continent are very superstitious.

Q5. Answer: (d) Slyness

The correct answer is 'Slyness'.

Key Points

• Guile is a noun that means sly or cunning intelligence.

• Let us look into the meaning of the given options -

• Courage - the ability to do something that frightens one; bravery.

• Shyness - the quality or state of being shy.

• Gentleness - the quality of being kind, tender, or mild-mannered.

• Slyness - behaviour that is clever in order to deceive people and get what you want

• From the above meanings it is clear that slyness is the correct denotation of the highlighted word.

• Hence, option 4 is the correct answer.

Additional Information

• The definition of denotation refers to the direct or dictionary meaning of a word, in contrast to its figurative or associated meanings (connotations).

• For example, the denotation of word red is just colour red but its connotation is danger or blood.

Q6. Answer: (b) Bhavani made a trip to the village temple yesterday.

The correct answer is 'Bhavani made a trip to the village temple yesterday.'

Key Points

• The given sentence is in passive voice. As per the question we have to change it into active voice.

• The structure of the given sentence is as follows:

• Subject (objective case) + was + past participle + by Object (subjective case) (Passive voice) + adjunct

• Subject + past participle + Object (Active voice) + adjunct

• Example:

• A large house was built by her. (Passive voice)

• She built a large house. (Active voice)

• The subject of the given sentence is ‘Bhavani’.

• The object of the given subject is ‘trip’.

• The subject will be put in place of the object and the object will be put in place of the subject.

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• was made will be changed to made.

• Adjunct is a word or phrase that constitutes an optional element or is considered of secondary importance in a sentence

• In the given sentence, to the village temple yesterday is the adjunct.

• Thus, the correct answer is option 2.

Correct sentence - Bhavani made a trip to the village temple yesterday.

Q7. Answer: (a) bigger

The correct answer is 'bigger'.

Key Points

• From the given options we need to select the appropriate adjective for the given blank to describe the comparison between the dreams of the subject (He) and his friends.

• We need to select the comparative degree of adjective as the comparison is happening between two objects.

• Now big is an adjective that has one syllable.

• Adjectives with one syllable can form the comparative by adding -er.

• So, bigger is the comparative degree of the adjective and is appropriate for the given blank.

• Hence, option 1 is the correct answer.

Correct sentence - He dreams bigger than his friends.

Additional Information

• If the adjective has a consonant + single vowel + consonant spelling (fat, big etc), the final consonant must be doubled before adding the ending.

Q8. Answer: (d) Inarticulate

The solution is in Hindi. Read it online.

Q9. Answer: (b) slick

The solution is in Hindi. Read it online.

Q10. Answer: (c) Get ready for

The correct answer is 'Get ready for'.

Key Points

• Gear up for is an idiom that means to prepare or equip oneself for something; get ready.

• Example - Now the country needs to gear up for backing the domestic economy.

• So, get ready for is the most appropriate meaning of the given idiom.

• Hence, option 3 is the correct answer.

Q11. Answer: (c) CBDA

The correct answer is 'CBDA'.

Key Points

While arranging the parts of the passage, we should find some grammatical or contextual connections between them. Also, the first sentence of a passage is usually independent and introduces a topic. The second one provides more information about it.

• Sentence C is the independent sentence and introduces the topic which relates to what the author did during a summer before going to college.

• So, sentence C is the first sentence after rearrangement. It explains where the author worked and why.

• Sentence B describes what the author did during Sundays and talks about one particular incident on a Sunday. Hence, B follows C.

• Sentence D explains the author's feeling regarding segregation which he faced once coming back from the farm. So, it should come after sentence B, to maintain continuity on the topic.

• Sentence A is the concluding statement of the passage as it provides further information regarding the author's feelings.

Thus, the correct order after rearrangement is option 3 i.e. CBDA.

So, the correct paragraph is : (C) Just before going to college I went to Simsbury, Connecticut, and worked for a whole summer on a tobacco farm to earn a little school money to supplement what my parents were doing. (B) One Sunday, we went to church in Simsbury, and we were the only Negroes there and on Sunday mornings I was the religious leader and spoke on any text I wanted to 107 boys. (D) After that summer in Connecticut, it was a bitter feeling going back to segregation and it was hard to understand why I could ride wherever I pleased on the train from New York to Washington and then had to change to a Jim Crow car at the nation’s capital in order to continue the trip to Atlanta. (A) The first time that I was seated behind a curtain in a dining car, I felt as if the curtain had been dropped on my selfhood and could never adjust to the separate waiting rooms, separate eating places,

separate rest rooms, partly because the separate was always unequal, and partly because the very idea of separation did something to my sense of dignity and self-respect.

Q12. Answer: (d) To order

The correct answer is 'To order'.

Key Points

• Call upon is an idiom that means to ask formally for someone to do something.

• Example - Captains on both sides have been blessed to call upon some wonderful fast bowlers.

• So, to order is the most appropriate meaning of the given idiom.

• Hence, option 4 is the correct answer.

Q13. Answer: (b) The ball was kicked high into the air by the boy.

The correct answer is 'The ball was kicked high into the air by the boy.'

Key Points

• The given sentence is in active voice. As per the question we have to change it into passive voice.

• The structure of the given sentence is as follows:

• Subject + past participle + Object (Active voice)

• Subject (objective case) + was + past participle + by Object (subjective case) (Passive voice)

• Example:

• She built a large garden. (Active voice)

• A large garden was built by her. (Passive voice)

• The subject of the given sentence is ‘the boy’.

• The object of the given subject is ‘the ball’.

• The subject will be put in place of the object and the object will be put in place of the subject.

• kicked will be changed to was kicked.

Correct sentence - The ball was kicked high into the air by the boy.

• Hence,the correct answer is option 2.

Q14. Answer: (a) illuminates

The correct answer is 'illuminates'.

Key Points

• The given sentence points out how the wisdom of a wise king has the same effect on the kingdom as the sun.

• So, we need to fill the given blank which would reflect what the sun does which is to shine on things and make them visible.

• Let us look into the meaning of the given options -

• illuminates - make (something) visible or bright by shining light on it; light up.

• darkens - make or become dark or darker.

• dims - make or become less bright or distinct.

• spreads - open out (something) so as to extend its surface area, width, or length.

• From the above meanings it is clear that illuminates is the most appropriate option to fill in the blank.

• Hence, option 1 is the correct answer.

Correct sentence - A wise king’s wisdom illuminates the land like the sun.

Q15. Answer: (c) Faction

The correct answer is 'Faction'.

Key Points

• Let us look into the meaning of the words in the options -

• Band- a small group of musicians and vocalists who play pop, jazz, or rock music.

• Set - a group or collection of things that belong together or resemble one another or are usually found together.

• Faction - a small organized dissenting group within a larger one, especially in politics.

• Cluster - a group of similar things or people positioned or occurring closely together.

• From the above meanings it is clear that faction is the best option that can be used as a one-word substitute for the given group of words.

• Hence, option 3 is the correct answer.

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Q16. Answer: (d) Plentiful

The correct answer is 'Plentiful'.

Key Points

• Abundant is an adjective that means existing or available in large quantities.

• The meaning of the given options is as follows -

• Abysmal - extremely bad; appalling.

• Ephemeral - lasting for a very short time.

• Scarce - (especially of food, money, or some other resource) insufficient for the demand.

• Plentiful - existing in or yielding great quantities.

• From the above meanings it is evident that plentiful is the correct synonym for the word abundant.

• Hence, option 4 is the correct answer.

Q17. Answer: (c) All the documents will be signed by Kiara tomorrow.

The correct answer is 'All the documents will be signed by Kiara tomorrow.'

Key Points

• The given sentence is in active voice. As per the question we have to change it into passive voice.

• The structure of the given sentence is as follows:

• Subject + will + infinitive + Object (Active voice)

• Subject (objective case) + will + be + past participle + by Object (subjective case) (Passive voice)

• Example:

• I will give you a present. (Active voice)

• A present will be given to you by me. (Passive voice)

• The subject of the given sentence is ‘Kiara’.

• The object of the given subject is ‘the documents’.

• The subject will be put in place of the object and the object will be put in place of the subject.

• will sign will be changed to will be signed.

Correct sentence - All the documents will be signed by Kiara tomorrow.

Q18. Answer: (c) sympathy

The correct answer is 'sympathy'.

Key Points

• Malice is a noun that means the desire to harm someone; ill will.

• The meaning of the given options are as follows -

• avarice - extreme greed for wealth or material gain.

• grace - smoothness and elegance of movement.

• sympathy - feelings of pity and sorrow for someone else's misfortune.

• oppression - prolonged cruel or unjust treatment or exercise of authority.

• From the above meanings it is evident that sympathy is the correct antonym for the word malice.

• Hence, option 3 is the correct answer.

Q19. Answer: (d) Feeld

The erroneous spelling is 'Feeld'.

Key Points

• The correct spelling for the word is a field which means an area of open land, especially one planted with crops or pasture, typically bounded by hedges or fences.

• The meanings of the other options are as follows -

• Efficient - (of a system or machine) achieving maximum productivity with minimum wasted effort or expense.

• Layer - a sheet, quantity, or thickness of the material, typically one of several, covering a surface or body.

• Committee - a group of people appointed for a specific function by a larger group and typically consisting of members of that group.

• Hence, option 4 is the correct answer.

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Q20. Answer: (d) Occular

The erroneous spelling is 'Occular'.

Key Points

• The correct spelling for the word is ocular which means of or connected with the eyes or vision.

• The meanings of the other options are as follows -

• Martinet - a person who demands complete obedience; a strict disciplinarian.

• Congenital - (of a disease or physical abnormality) present from birth.

• Phlegmatic - (of a person) having an unemotional and stolidly calm disposition.

• Hence, option 4 is the correct answer.

Q21. Answer: (d) towards

The correct answer is 'towards'.

Key Points

• The given blank needs a preposition to show the relationship between the novelists' attitudes toward their subject.

• Let us look into the usage of the given options (all of which are prepositions) -

• despite - without being affected by; in spite of.

• under - extending or directly below.

• through - moving in one side and out of the other side of (an opening, channel, or location).

• towards - expressing the relation between behavior or an attitude and the person or thing at which it is directed or with which it is concerned.

• From the above-listed usage, we can conclude that towards is the most appropriate option to fill in blank number 1.

• Hence, option 4 is the correct answer.

Correct passage - Novelists when they write novels, tend to take an almost god-like attitude (1) towards their subject, pretending to have a total comprehension of the story, a man's life, (2) which they can therefore recount as God Himself might, nothing standing between them and the naked truth, the entire story meaningful in (3) every detail. I am as little able to do this as the novelist is, even though my story is more important to me than any novelist's is to him – for this is my story; it is the story of a man, not of an invented or possible, or idealized or otherwise (4) absent figure, but of a unique (5) being of flesh and blood.

Q22. Answer: (d) which

The correct answer is 'which'.

Key Points

• The given blank needs a pronoun to refer to the phrase 'a man's life'.

• The part following the given blank describes a dependent clause.

• In such a case, we need to use a relative pronoun to introduce the dependent clause.

• Both who and which are relative pronouns.

• Who is normally used to refer to human beings, either male or female.

• Which is used to refer to things or groups.

• From the above, we can conclude which is the most appropriate option to fill in blank number 2.

• Hence, option 4 is the correct answer.

Correct passage - Novelists when they write novels tend to take an almost god-like attitude (1) towards their subject, pretending to have a total comprehension of the story, a man's life, (2) which they can therefore recount as God Himself might, nothing standing between them and the naked truth, the entire story meaningful in (3) every detail. I am as little able to do this as the novelist is, even though my story is more important to me than any novelist's is to him – for this is my story; it is the story of a man, not of an invented or possible, or idealized or otherwise (4) absent figure, but of a unique (5) being of flesh and blood.

Q23. Answer: (a) every

The correct answer is 'every'.

Key Points

• The given blank needs a determiner to refer individually to all the details in an entire story.

• In such a case, the correct determiner is every.

• We use every + singular noun to refer individually to all the members of a complete group of something

• So, we can conclude that every is the most appropriate option to fill in blank number 3.

• Hence, option 1 is the correct answer.

Correct passage - Novelists when they write novels tend to take an almost god-like attitude (1) towards their subject, pretending to

have a total comprehension of the story, a man's life, (2) which they can therefore recount as God Himself might, nothing standing between them and the naked truth, the entire story meaningful in (3) every detail. I am as little able to do this as the novelist is, even though my story is more important to me than any novelist's is to him – for this is my story; it is the story of a man, not of an invented, or possible, or idealized or otherwise (4) absent figure, but of a unique (5) being of flesh and blood.

Q24. Answer: (b) absent

The correct answer is 'absent'.

Key Points

• The given blank needs an adjective to describe the type of figure. The author of the passage already mentions that the man whose story it is is not a fictional character.

• Let us look into the meaning of the given options (all of which are adjectives) -

• callous - showing or having an insensitive and cruel disregard for others.

• absent - not present in a place, at an occasion, or as part of something.

• ordinary - with no special or distinctive features; normal.

• profuse - (especially of something offered or discharged) very plentiful; abundant.

• From the above-listed meanings, we can conclude that absent is the most appropriate option to fill in blank number 4.

• Hence, option 2 is the correct answer.

Correct passage - Novelists when they write novels tend to take an almost god-like attitude (1) towards their subject, pretending to have a total comprehension of the story, a man's life, (2) which they can therefore recount as God Himself might, nothing standing between them and the naked truth, the entire story meaningful in (3) every detail. I am as little able to do this as the novelist is, even though my story is more important to me than any novelist's is to him – for this is my story; it is the story of a man, not of an invented, or possible, or idealised or otherwise (4) absent figure, but of a unique (5) being of flesh and blood.

Q25. Answer: (b) being

The correct answer is 'being'.

Key Points

• The given blank needs a noun that can be defined by the preceding adjective unique. It should also correlate to the concept of man.

• Let us look into the meaning of the given options (all of which are nouns) -

• organism - an individual animal, plant, or single-celled life form.

• being - the nature or essence of a person.

• cripple - a person with a severe limitation of a specified kind.

• stance - the way in which someone stands

• From the above-listed usage, we can conclude that being is the most appropriate option to fill in blank number 5.

• Hence, option 2 is the correct answer.

Correct passage - Novelists when they write novels tend to take an almost god-like attitude (1) towards their subject, pretending to have a total comprehension of the story, a man's life, (2) which they can therefore recount as God Himself might, nothing standing between them and the naked truth, the entire story meaningful in (3) every detail. I am as little able to do this as the novelist is, even though my story is more important to me than any novelist's is to him – for this is my story; it is the story of a man, not of an invented, or possible, or idealized or otherwise (4) absent figure, but of a unique (5) being of flesh and blood.

Q26. Answer: (d) –,+,÷,×, =

By using BOMDAS rule:

And going by the options,

Option 1) ÷, ×, +, –, =

Given equation :- 25 * 5 * 10 * 2 * 8 * 60

Interchange the mathematical operators with *,

We get: 25 ÷ 5 × 10 + 2 - 8 = 60

=> 5 × 10 + 2 - 8 = 60

=> 50 + 2 - 8 = 60

=> 52 - 8 = 60

=> 44 ≠ 60

=> LHS ≠ RHS

Option 2) ÷, ×, –, +, =

Given equation:- 25 * 5 * 10 * 2 * 8 * 60

Interchange the mathematical operators with *,
We get: 25 ÷ 5 × 10 - 2 + 8 = 60
=> 5 × 10 - 2 + 8 = 60
=> 50 - 2 + 8 = 60
=> 58 - 2 = 60
=> 56 ≠ 60
=> LHS ≠ RHS
Option 3) ×, ÷, –, +, =
Given equation:- 25 * 5 * 10 * 2 * 8 * 60
Interchange the mathematical operators with *,
We get: 25 × 5 ÷ 10 - 2 + 8 = 60
=> 25 × 0.5 - 2 + 8 = 60
=> 12.5 - 2 + 8 = 60
=> 20.5 - 2 = 60
=> 18.5 ≠ 60
=> LHS ≠ RHS
Option 4) –, +, ÷, ×, =
Given equation:- 25 * 5 * 10 * 2 * 8 * 60
Interchange the mathematical operators with *,
We get: 25 - 5 + 10 ÷ 2 × 8 = 60
=> 25 - 5 + 5 × 8 = 60
=> 25 - 5 + 40 = 60
=> 65 - 5 = 60
=> 60 = 60
=> LHS = RHS
Therefore, only "Option 4" satisfies the above equation.
Hence, the correct answer is "–, +, ÷, ×, =".

Q27. Answer: (b) ×,−,=, ×,+,÷

By using the BODMAS rule:
Option 1) +,=,−,×,÷,−
Given equation:- 42 * 4 * 69 * 3 * 29 * 60 * 5
Interchange the mathematical sign with *,
We get: 42 + 4 = 69 - 3 × 29 ÷ 60 - 5
=> 46 = 69 - 3 × 0.4833 - 5
=> 46 = 69 - 1.45 - 5
=> 46 ≠ 62.55
=> LHS ≠ RHS
Option 2) ×,−,=, ×,+,÷
Given equation:- 42 * 4 * 69 * 3 * 29 * 60 * 5
Interchange the mathematical sign with *,
We get: 42 × 4 - 69 = 3 × 29 + 60 ÷ 5
=> 42 × 4 - 69 = 3 × 29 + 12
=> 168 - 69 = 87 + 12
=> 168 - 69 = 99
=> 99 = 99
=> LHS = RHS
Option 3) +,÷,=,−,×,+
Given equation:- 42 * 4 * 69 * 3 * 29 * 60 * 5
Interchange the mathematical sign with *,
We get: 42 + 4 ÷ 69 = 3 - 29 × 60 + 5
=> 42 + 0.05797 = 3 - 29 × 60 + 5

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=> 42 + 0.05797 = 3 - 1740 + 5

=> 42.05797 = 8 - 1740

=> 42.05797 ≠ -1732

=> LHS ≠ RHS

Option 4) −,=,×,+,×,÷

Given equation:- 42 * 4 * 69 * 3 * 29 * 60 * 5

Interchange the mathematical sign with *

We get: 42 - 4 = 69 × 3 + 29 × 60 ÷ 5

=> 42 - 4 = 69 × 3 + 29 × 12

=> 42 - 4 = 207 + 348

=> 42 - 4 ≠ 555

=> 38 ≠ 555

=> LHS ≠ RHS

Therefore, only "×,−,=, ×,+,÷" satisfies the given equation

Hence, the correct answer is "×,−,=, ×,+,÷".

Q28. Answer: (b) 592

The pattern followed here is:

Hence, the correct answer is "592".

Q29. Answer: (c) 3, 2, 5, 1, 4

According to the sequence in the dictionary:

3. Discuss

2. Disease

5. Disgrace

1. Dish

4. Disjoin

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

Q30. Answer: (a) [figure]

When the mirror is placed vertically to the object, the mirror image so formed will be laterally inverted. In other words, the Right Hand Side and Left Hand Side interchange their positions while top and bottom will remain same.

The mirror image of the question figure is as follows:-

Hence, the correct answer is "Option 1".

Q31. Answer: (a) ROFMALU

The pattern followed here is:-

DETAILS : TEDASLI

And,

EMPATHY : PMEAYHT

Similarly,

FORMULA : ROFMALU

Hence, the correct answer is "ROFMALU"

Q32. Answer: (d) IDIWK

The position of the letters according to the English alphabet series:

Pattern followed here:

'WORTH' is written as 'ZRRWK'

And,

'TRACK' is written as 'WUAFN'

Similarly,

'FAITH' is written as '?'

Hence, the correct answer is "IDIWK".

Q33. Answer: (d) 9

The logic is as follows:

(Square of the 2nd number × 2) +2

1) 52 : 5

=> $5^2 \times 2 + 2 = 50 + 2 = 52$

2) 100: 7

=> $72 \times 2 + 2 = 98 + 2 = 100$

Similarly,

3) 164:?

=> $92 \times 2 + 2 = 162 + 2 = 164$

Hence, the answer is 9.

Q34. Answer: (b) [figure]

The embedded figure is as follows:

Hence, the correct answer is "Option 2".

Q35. Answer: (a) L Z L Z Q

The logic followed here is:

Break the series in 5 letters consist of 1 code, now notice the pattern that last 4 letters are same in every code, and the first letter get changed by the very next of it in the English alphabets. Like S is changed by T, T is changed by U and U is changed by V.

So the series is as follows,

Given: S _ O Z Q T L O _ Q U _ O _ Q V L O Z _

1) L Z L Z Q → S L O Z Q - T L O Z Q - U L O Z Q - V L O Z Q

2) Z L Z Q L → S Z O Z Q - T L O L Q - U Z O Q Q - V L O Z L

3) Z L Q L Z → S Z O Z Q - T L O L Q - U Q O L Q - V L O Z Z

4) L Z Q Z L → S L O Z Q - T L O Z Q - U Q O Z Q - V L O Z L

Correct sequence of given series is: S L O Z Q, T L O Z Q, U L O Z Q, V L O Z Q

Therefore, the correct answer is "L Z L Z Q".

Hence, the correct option is option(1).

Q36. Answer: (c) [figure]

The least possible Venn diagram for the given set of word is:

There is a bedroom inside the house and there is a bed inside the bedroom.

Hence, the correct answer is "Option 3".

Q37. Answer: (d) OCLLGY

The position of the letters according to the English alphabet series:

'SAMPLE' is written as 'RYJLGY'

And,

'MAPLE' is written as 'LYMHZ'

Similarly,

'PEOPLE' is written as '?'

Hence, the correct answer is "OCLLGY".

Q38. Answer: (a) =, ÷, ×, +

The logic followed here is

BODMAS rule:

Option 1) =, ÷, ×, +

Interchanging the mathematical signs with *,

We get: 91 = 15 ÷ 5 × 18 + 37

=> 91 = 3 × 18 + 37

=> 91 = 54 + 37

=> 91 = 91

=> LHS = RHS

Option 2) +, =, ×, −
Interchanging the mathematical signs with *,
We get: 91 + 15 = 5 × 18 - 37
=> 106 = 90 - 37
=> 106 ≠ 53
=> LHS ≠ RHS
Option 3) +, −, =, ×
Interchanging the mathematical signs with *,
We get: 91 + 15 - 5 = 18 × 37
=> 106 - 5 = 666
=> 101 ≠ 666
=> LHS ≠ RHS
Option 4) −, =, +, −
Interchanging the mathematical signs with *,
We get: 91 - 15 = 5 + 18 - 37
=> 76 = 23 - 37
=>76 ≠ -14
=> LHS ≠ RHS
Hence, the correct answer is "=, ÷, ×, +".

Q39. Answer: (b) ×, +, −, =, ×, −

The logic followed here is
Option 1) −, −, =, ×, +, ÷
Interchanging the * with mathematical signs,
We get: 37 - 3 - 21 = 79 × 18 + 4 ÷ 19
=> 37 - 3 - 21 = 79 × 18 + 0.210
=> 37 - 3 - 21 = 1422 + 0.210
=> 37 - 3 - 21 ≠ 1422.21
=> 13 ≠ 1422.21
=> LHS ≠ RHS
Option 2) ×, +, −, =, ×, −
Interchanging the * with mathematical signs,
We get: 37 × 3 + 21 - 79 = 18 × 4 - 19
=> 111 + 21 - 79 = 72 - 19
=> 132 - 79 = 72 - 19
=> 53 = 53
=> LHS = RHS
Option 3) +, ×, −, =, +, −
Interchanging the * with mathematical signs,
We get: 37 + 3 × 21 - 79 = 18 + 4 - 19
=> 37 + 63 - 79 = 18 + 4 - 19
=> 100 - 79 = 22 - 19
=> 21 ≠ 3
=> LHS ≠ RHS
Option 4) =, −, ×, +, −, ×
Interchanging the * with mathematical signs,
We get: 37 = 3 - 21 × 79 + 18 - 4 × 19
=> 37 = 3 - 1659 + 18 - 76
=> 37 = 21 - 1659 -76
=> 37 = 21 - 1735
=> 37 ≠ -1714
=> LHS ≠ RHS

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Hence, the correct answer is "×, +, −, =, ×, − ".

Q40. Answer: (a) ÷, ×, +, –, =

The logic followed here is:
BODMAS rule:
Option 1) ÷, ×, +, –, =
Interchanging the * with mathematical signs,
We get: 25 ÷ 5 × 10 + 2 - 8 = 44
=> 5 × 10 + 2 - 8 = 44
=> 50 + 2 - 8 = 44
=> 52 - 8 = 44
=> 44 = 44
=> LHS = RHS
Option 2) ×, ÷, –, +, =
Interchanging the * with mathematical signs,
We get: 25 × 5 ÷ 10 - 2 + 8 = 44
=> 25 × 0.5 - 2 + 8 = 44
=> 12.5 - 2 + 8 = 44
=> 20.5 - 2 = 44
=> 18.5 ≠ 44
=> LHS ≠ RHS
Option 3) ÷, ×, –, +, =
Interchanging the * with mathematical signs,
We get: 25 ÷ 5 × 10 - 2 + 8 = 44
=> 5 × 10 - 2 + 8 = 44
=> 50 - 2 + 8 = 44
=> 58 - 2 = 44
=> 56 ≠ 44
=> LHS ≠ RHS
Option 4) –, +, ÷, ×, =
Interchanging the * with mathematical signs,
We get: 25 - 5 + 10 ÷ 2 × 8 = 44
=> 25 - 5 + 5 × 8 = 44
=> 25 - 5 + 40 = 44
=> 65 - 5 = 44
=> 60 ≠ 44
=> LHS ≠ RHS
Hence, the correct answer is "÷, ×, +, –, = ".

Q41. Answer: (d) XLTV

The positional values of English alphabet is given below:
The pattern followed here is-
Hence, the correct answer is "XLTV".

Q42. Answer: (a) 169 : 14

The logic followed here is:
Logic: (Second number - 3)² = First Number
Lets check each option:
Option 1) 169 : 14
According to the logic,
=> (14 - 3)² → (11)² → 121 ≠ First number
Option 2) 225 : 18
According to the logic,

=> (18 - 3)2 → (15)2 → 225 = First number

Option 3) 196 : 17

According to the logic,

=> (17 - 3)2 → (14)2 → 196 = First number

Option 4) 256 : 19

According to the logic,

=> (19 - 3)2 → (16)2 → 256 = First number

Hence, the correct answer is "169 : 14".

Q43. Answer: (a) ÷, ×, –, +, =

The logic followed here is:

BODMAS rule:

Lets check each option.

Option 1) ÷, ×, –, +, =

Interchanging the * with mathematical signs,

We get: 16 ÷ 4 × 8 - 10 + 2 = 24

=> 4 × 8 - 10 + 2 = 24

=> 32 - 10 + 2 = 24

=> 34 - 10 = 24

=> 24 = 24

=> LHS = RHS

Option 2) –, ÷, +, ×, =

Interchanging the * with mathematical signs,

We get: 16 - 4 ÷ 8 + 10 × 2 = 24

=> 16 - 0.5 + 10 × 2 = 24

=> 16 - 0.5 + 20 = 24

=> 36 - 0.5 = 24

=> 35.5 ≠ 24

=> LHS ≠ RHS

Option 3) ×, ÷, –, +, =

Interchanging the * with mathematical signs,

We get: 16 × 4 ÷ 8 - 10 + 2 = 24

=> 16 × 0.5 - 10 + 2 = 24

=> 8 - 10 + 2 = 24

=> 10 - 10 = 24

=> 0 ≠ 24

=> LHS ≠ RHS

Option 4) ÷, +, ×, –, =

Interchanging the * with mathematical signs,

We get: 16 ÷ 4 + 8 × 10 - 2 = 24

=> 4 + 8 × 10 - 2 = 24

=> 4 + 80 - 2 = 24

=> 84 - 2 = 24

=> 82 ≠ 24

=>LHS ≠ RHS

Hence, the correct answer is "÷, ×, –, +, =".

Q44. Answer: (b) 2, 4, 1, 3, 5

According to the sequence in the dictionary:

2. Negate

4. Negligible

1. Negotiation

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3. Networking

5. Newspaper

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

Q45. Answer: (d) 18

Option 4 is the correct answer.

The number of squares in the given figure is shown below:

Hence, the correct answer is "18".

Q46. Answer: (d) –, +, ÷, ×, =

The logic followed here is:

BODMAS rule:

Lets check each option:

Option 1) +, –, ×, ÷, =

Interchanging the * sign with mathematical signs,

We get: 57 + 35 - 44 × 11 ÷ 13 = 74

=> 57 + 35 - 44 × 0.8461 = 74

=> 57 + 35 - 37.230 = 74

=> 92 - 37.230 = 74

=> 54.77 ≠ 74

=> LHS ≠ RHS

Option 2) +, –, ÷, ×, =

Interchanging the * sign with mathematical signs,

We get: 57 + 35 - 44 ÷ 11 × 13 = 74

=> 57 + 35 - 4 × 13 = 74

=> 57 + 35 - 52 = 74

=> 92 - 52 = 74

=> 40 ≠ 74

=> LHS ≠ RHS

Option 3) ×, +, ÷, –, =

Interchanging the * sign with mathematical signs,

We get: 57 × 35 + 44 ÷ 11 - 13 = 74

=> 57 × 35 + 4 - 13 = 74

=> 1995 + 4 - 13 = 74

=> 1999 - 13 = 74

=> 1986 ≠ 74

=> LHS ≠ RHS

Option 4) –, +, ÷, ×, =

Interchanging the * sign with mathematical signs,

We get: 57 - 35 + 44 ÷ 11 × 13 = 74

=> 57 - 35 + 4 × 13 = 74

=> 57 - 35 + 52 = 74

=> 109 - 35 = 74

=> 74 = 74

=> LHS = RHS

Hence, the correct answer is "–, +, ÷, ×, =".

Q47. Answer: (c) [figure]

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

Hence, the correct answer is "Option 3".

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Q48. Answer: (c) [figure]

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

Hence, the correct answer is "Option3".

Q49. Answer: (c) [figure]

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

Hence, the correct answer is "Option 3".

Q50. Answer: (a) RIGHT

The pattern followed here is:

Logic: Remove the first letter of first word and the remaining one is to be written as it is.

AMOUNT: MOUNT

Here, A is removed from AMOUNT and MOUNT is written as it is.

And,

BRIDGE: RIDGE

Here, B is removed from BRIDGE and RIDGE is written as it is.

Similarly,

BRIGHT: ?

Same here, B is removed from BRIGHT and RIGHT is written as it is.

Hence, the correct answer is "RIGHT".

Q51. Answer: (c) 54

Given:

The volume of a cube is 27 m3

Formula used:

The volume of cube = a^3

Surface Area of a cube = $6a^2$

Calculations:

According to the question,

Volume = a3

=> a3 = 27

=> a = 3 m

Now Surface Area (SA) of the cube

SA = 6 a^2

=> SA = $6(3)^2$

=> SA = 6 × 9 = 54 m^2

Therefore The surface area (in m2) of the cube is 54 m^2.

Q52. Answer: (d) 15%

Given:

Markup% = 45%

Discount% = 21%

Formula used:

Discount%= (MP - SP)/MP × 100

Selling Price (SP) = Marked price (1 - Discount%/100)

Profit% = (SP - CP)/CP × 100

Calculation:

Let the cost price be Rs. x

=> Marked price = x + (45/100) × x = 1.45x

=> SP = 1.45 × (1 - 21/100)

=> SP = 1.45 × (0.79) = 1.1455x

Now Profit%

=> Profit% = (1.1455x - x)/x × 100

=> Profit% = 0.1455 × 100 = 14.55% ~ 15%

Therefore The Profit% is 15%

Shortcut Trick

A trader marks his goods at 45% above the cost price

then offers a discount of 21%

So, the effective rate is 45 - 21 - (45 × 21)/100 = 14.55%

So, the percentage of profit is 14.55% ~ 15%

Q53. Answer: (b) 3661

Given:

Divisibility of 7

Concept used

The divisibility rule of 7 states that

Pick the last digit of a number, multiply it by 2,

Subtract the product from the rest of the number to its left. If the difference is 0 or a multiple of 7, then the given number is divisible by 7

Calculations:

According to the concept,

We will check if the numbers are divisible by 7

=> 3739 = 373 - 9 × 2 = 373 - 18 = 355 [not a multiple of 7]

=> 3661 = 366 - 1 × 2 = 364 [multiple of 7]

=> 3659 = 365 - 9 × 2 = 365 - 18 = 347 [not a multiple of 7]

=> 3915 = 391 - 5 × 2 = 391 - 10 = 381 [not a multiple of 7]

Therefore The number divisible by 7 is 3661

Q54. Answer: (c) 4%

Given:

Marked up% (MP) = 25%

Profit% = 20%.

Concept:

SP = [(100 + gain%)/100] × C.P

SP = [MP- (MP × Discount%)]

Calculation:

Let the cost price of the article is 100.

According to the question

The selling price of the article

=> SP = [(100 + 20)/100] × 100 = 120

The Marked price of the article is

=> [100 + (100 × 25%)]

=> 100 + 25 = 125

Also,

The selling price of the article is

SP = [125 - (125 × x%)]

=> x = [(125 - 120)/125] × 100

=> x = 5/125 × 100 = 4%

Therefore The discount should be given of 4%.

Shortcut Trick

We know 25% = 1/4 and 20% = 1/5

According to the question, MP is 25% above the CP

So, CP : MP = 4 : 5

Now, the mobile sold at a profit of 20%

So, CP : SP = 5 : 6

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Now, CP : SP : MP = 20 : 24 : 25
Here, the discount is (25 - 24)/25 × 100 = 4%

Q55. Answer: (c) 8

Given:
2a + b = 10,
2ab = 9, and 2a > b
Concept used:
$(a + b)2 = (a - b)^2 + 4ab$
Calculations:
According to the question,
=> (2a + b) = 10
Taking both side square we get,
=> $(2a + b)^2 = 10^2$
=> $(2a - b)^2 + 8ab = 100$ [get by the above concept]
=> $(2a - b)2 + 4 \times 2ab = 100$
=> $(2a - b)^2 + (4 \times 9) = 100$ [put the value of 2ab]
=> $(2a - b)^2 = 100 - 36$
=> $(2a - b)^2 = 64$
=> $2a - b = \sqrt{64} = 8$
Therefore The value of 2a – b is 8

Q56. Answer: (d) 9

Given:
3 and 27
Concept used:
Mean Proportion = √(a × b)
Calculation:
Mean Proportion = √(3 × 27)
Mean Proportion = √(81) = 9
Therefore The mean proportion of 3 and 27 is 9.

Q57. Answer: (a) 4 : 3

Given:
Cost of first variety = Rs. 45/kg
Cost of the second variety = Rs. 80/kg
The selling price of the mixture= Rs. 72/kg
Profit% = 20%
Formula used:
(Quantity of cheaper/Quantity of dearer) = [(Cost price of dearer) - (Mean price)]/[(Mean price) - (Cost price of cheaper)]
Calculations:
Let the mean price of the mixture be Rs. x/kg and the ratio of the two varieties be R
72 = (120/100) × x
=> 6x = 360
=> x = 360/6 = Rs. 60/kg
Using the concept,
=> R = (80 - 60)/(60 - 45)
=> R = 20/15
=> R = 4/3 = 4 : 3
Therefore The ratio in which the two varieties must be mixed is 4 : 3.
Shortcut Trick
The CP of two types of sugar is Rs.45 & Rs.80
The mixture of these two type of sugar sold at 20% profit

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Now, the CP of the mixture will be 72 × 5/6 = Rs.60

Therefore The ratio in which the two varieties must be mixed is 4 : 3

Q58. Answer: (c) 18π cm³

Given:

Diameter of hemisphere = 6 cm

π = 22/7

Formula used:

Volume of Hemisphere = 2/3 π r³

Calculations:

According to the question,

Radius (r) = Diameter/2

=> r = 6/2 = 3 cm

Now Volume of the hemisphere

V = 2/3 π (3)³

=> V = 2/3 π (27)

=> V = 2 × 9 π = 18π cm³

Therefore The volume of a hemisphere is 18π cm3.

Q59. Answer: (b) 7

Given:

11 ÷ [1 + 1 ÷ {1 + 1 ÷ (1 + 1 ÷ 3)}]

Concept used:

BODMAS rule

Calculations:

11 ÷ [1 + 1 ÷ {1 + 1 ÷ (1 + 1/3)}]

=> 11 ÷ [1 + 1 ÷ {1 + 1 ÷ (4/3)}]

=> 11 ÷ [1 + 1 ÷ {1 + 3/4}]

=> 11 ÷ [1 + 1 ÷ {7/4}]

=> 11 ÷ [(7 + 4)/7]

=> 11 ÷ [11/7]

=> (11 × 7)/11 = 7

Therefore The simplified value of the given equation is 7.

Q60. Answer: (b) 2026

Shortcut Trick

Find two numbers such that their sum is 12 and product is 35.

By inspection, the factors of 35 are 7 and 5, where 7 + 5 = 12.

Let a = 7 and b = 5.

Required value = 7^4 + 5^4 − 10³

=> 2401 + 625 − 1000 = 3026 − 1000 = 2026.

Therefore The correct answer is 2026.

Alternate Method

Given:

a + b = 12

ab = 35

Formula Used:

a² + b² = (a + b)² − 2ab

a^4 + b^4 = (a² + b²)² − 2(ab)²

Calculations:

=> a² + b² = (12)² − 2(35)

=> a² + b² = 144 − 70 = 74

=> a^4 + b^4 = (74)² − 2(35)²

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=> a^4 + b^4 = 5476 − 2(1225)

=> a^4 + b^4 = 5476 − 2450 = 3026

=> Value = (a^4 + b^4) − 10^3

=> Value = 3026 − 1000 = 2026

Therefore The correct answer is 2026.

Additional Information

Algebraic Identities

The square of a binomial is given by $(a + b)^2 = a^2 + b^2 + 2ab$.

Higher Powers

To find a^4 + b^4, we use the identity $(a^2 + b^2)^2 = a^4 + b^4 + 2(ab)^2$.

Sum of Cubes

The sum of cubes formula is $a^3 + b^3 = (a + b)(a^2 − ab + b^2)$.

Q61. Answer: (a) 77 : 282

Given:

The table below gives the numbers of seats own in the local body elections in a state by different political parties in the years 2019 and 2014.

Name of the Party	Result in 2019	Result in 2014
AGP	303	282
Con Party	52	43
CMK	23	0
AICT	22	34
Kanta Dal	16	2
Shiv Party	18	18

Calculations:

According to the question:

Con party (2014) + Kanta Dal (2019) + Shiv Party (2019) / AGP (2014)

=> (43 + 16 + 18)/ 282

=> 77/282 = 77 : 282

Therefore The ratio will be 77 : 282

Q62. Answer: (a) 33.3%

Given:

Concept used:

Percentage increase = [(New value - old value)/ old value] × 100

Calculations:

The new value is 200 and the old value is 150.

Percentage increase in sales from 2002 to 2003,

=> [(200 - 150)/150] × 100

=> (50/150) × 100

=> 33.33%

Therefore Percentage increase in sales from 2002 to 2003 is 33.33%.

Q63. Answer: (d) 5 : 6

Given:

BC intersects AB and AC at the points P and Q, respectively

AB = 6PB

Concept used:

By B.P.T = AP/AB = AQ/AC = PQ/BC

Calculations:

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AB = AP + PB
=> AP = AB - PB
=> AP = 1 - 1/6
=> AP = (6 - 1)/6 = 5/6
According to the question,
By B.P.T.,
AP/AB = AQ/AC = PQ/BC
=> AP/AB = PQ/BC
=> AP/AB = PQ/BC
=> (5/6)/1 = PQ/BC
=> PQ/BC = 5/6
=> PQ : BC = 5 : 6
Therefore PQ : BC = 5 : 6

Q64. Answer: (d) 62.5%

Calculation:

Height (in cm)	No. of students (cumulative frequency)	Number of students
up to 150	12	12
up to 155	16	16 - 12 = 4
up to 160	18	18 - 16 = 2
up to 165	33	33 - 18 = 15
up to 170	48	48 - 33 = 15

Number of students whose height is more than 160 cm = 15 + 15 = 30
Total number of students = 48
Percentage of students whose height is more than 160 cm = 30/48 × 100 = 62.5 %

Q65. Answer: (d) 2p + 2q

Given:
3p - [3p - p+q - {3p - (p - q-p)}]
Calculations:
According to the question,
As the over bar removes the negative becomes positive and vice-versa but only those signs which are under it.
3p - [3p - p+q - {3p - (p - q-p)}]
So the new equation will be
3p - [3p - p - q - {3p - (p - q + p)}]
=> 3p - [3p - p - q - {3p - (2p - q)}]
=> 3p - [3p - p - q - {3p - 2p + q}]
=> 3p - [3p - p - q - {p + q}]
=> 3p - [3p - p - q - p - q]
=> 3p - [p - 2q]
=> 3p - p + 2q
=> 2p + 2q
Therefore The simplified value of given equation is 2p + 2q.

Q66. Answer: (c) 75

Given:
The average score of 50 students is 66
40% are girls and the rest are boys.
The average score of the boys is 20% less than that of the girls.
Formula used:

Average = (Sum of Values/Number of Values)
Calculation:
According to the question:
Total boys in class = 50 × 60/100 = 30
=> Rest girls 50 - 30 = 20
The average score of the boys is 20% less than that of the girls.
Average score of boys = 80/100 × Average score of girls
The average score of girls/Average score of boys = 5/4
Let the Average score of girls be 5x And the Average score of boys be 4x
Now,
66 = (5x × 20 + 30 × 4x)/50
=> 66 × 50 = 100x + 120x
=> 3300 = 220x
=> x = 3300/220 = 15
Average score of girls = 5x = 5 × 15 = 75.
Therefore The Average score of girls is 75.

Q67. Answer: (a) 125.6 cm2

Given :
The radius of the right circular cylinder = 4 cm
Height of right circular cylinder = 5 cm
Formula used:
The curved surface area of the cylinder = 2πrh
Calculation:
As we know that
CSA of cylinder = 2 × 3.14 × 4 × 5
=> 40 × 3.14
=> 125.6 cm2
Therefore The CSA of the cylinder is 125.6 cm2.

Q68. Answer: (c) −Sin A

Given:
Sin (−A)
Calculation:
Since the angle can't be negative only the cartition plain will be negative
Here, Sin (-A) = - Sin (A)
Therefore Sin (-A) = - Sin (A)

Q69. Answer: (b) 11979

Given:
The Initial population (P) of a village = 9,000
The annual birth rate = 12.5%
The annual death rate = 2.5%
Concept used:
Population = P(1 + R/100)^T
Calculation:
The annual growth Rate (R) = Birth Rate - Death Rate = 12.5% - 2.5% = 10%
According to the question,
Population after 3years will be = 9000(1 + 10/100)3
=> $P_f = 9000 (1.1)^3$
=> Pf = 9000 × 1.331 = 11979
Therefore The population after three years will be 11979.

Q70. Answer: (c) 1575

Given:

Ravi gets = 65% of total valid votes.

Total votes = 6000

Invalid votes = 25% of total votes

Calculations:

According to the question,

Total invalid votes = 25% of total votes

=> 25% × 6000 = 1500 votes

Total valid votes = Total votes - Total invalid votes

=> 6000 - 1500 = 4500 votes

Total valid votes of Ravi = 65% of Valid votes

=> 65% × 4500 = 2925 votes

Total valid votes of Sushil = Total Valid votes - Valid votes of Ravi

=> 4500 - 2925 = 1575 votes

Therefore The number of valid votes that the other candidate Sushil gets is 1575.

Q71. Answer: (b) 11

Given:

1, 2, 3, 5, 17, 21 and 28

Concept used:

Average value (A) = (Sum of all the values)/(Total no. of values)

Calculations:

According to the question,

A = (1 + 2 + 3 + 5 + 17 + 21 + 28)/ 7

=> A = 77/7 = 11

Therefore The Average value is 11.

Q72. Answer: (d) 36 days

Given:

A and B together can do a piece of work in 12 days

A alone can complete the same work in 18 days

Calculations:

According to the question,

One day work of A = 1/18 units

One day Work of A + B = 1/12 units

One day work of B = (One day Work of A + B) - (One day Work of A)

=> B = 1/12 - 1/18

=> B = (3 - 2)/ 36

=> B = 1/36 = 36 days

Therefore B alone can complete the same work in 36 days.

Q73. Answer: (b) 15 km

Given:

Speed in still water = 5km/h

Speed of upstream = 5km/h - Current speed = 5 - 2.5 = 2.5km/h

Time in upstream = 4 h + Time in Downstream

Concept used:

Distance = Speed × Time

Calculations:

According to the question,

Distance for Upstream = Distance for downstream

=> 2.5 (4 + T) = 7.5T

=> 10 + 2.5T = 7.5T

=> 5T = 10

=> T = 10/5 = 2 h

Now substituting the value of T in Downstream then

=> D = 7.5 × 2 = 15km

Therefore The distance is 15 km.

Q74. Answer: (a) Rs. 5,46,750

Given:

P purchased a land for Rs. 4,32,000 on the outskirts of a city.

Its value depreciated at 25% per annum and he sold it to Q after 2 years.

Appreciation of real estate prices at the rate of 50%

Concept used:

Amount = P (1 + R/100)^T

Amount = P (1 - R/100)T

Calculations:

According to the question,

P sold the lamd to Q = 432000(1 - 25%)²

=> SP = 432000 (1 - 0.25)2

=> SP = 432000 (0.75)2

=> SP = 432000 × 0.5625 = 243000

P sold land to Q for Rs. 243000

Now the value of land after 2 years

Amount = 243000 (1 + 0.5)2

=> A = 243000 (1.5)2

=> A = 243000 × 2.25 = 546750

Therefore The value (in Rs.) of the land after 2 years, from the time Q bought the land from P is Rs. 546750.

Alternate Method

The Land's value depreciated at 25%, So after 2 year,

The value from $4^2 = 16$ unit becomes $3^3 = 9$ unit

So, after two years of depreciation, the value of the land is

=> (432000/16) × 9 = 243000

Next two years the land's value appreciation is 50%, after 2 years

The value from 22 = 4 unit becomes 33 = 9 unit

So, after two years of appreciation, the value of the land is,

=> 243000/4 × 9 = 546750

Therefore The correct answer is 546750

Q75. Answer: (c) 34.48%

Shortcut Trick

Net Multiplier = (Markup Factor) × (Discount Factor) × (Weight Factor)

Net Multiplier = (130 / 100) × (90 / 100) × (1000 / 870)

Net Multiplier = 1.3 × 0.9 × (100 / 87) = 1.17 × (100 / 87) = 117 / 87 = 39 / 29

Profit % = [(39 − 29) / 29] × 100 = (10 / 29) × 100 ≈ 34.48%

Therefore The correct answer is 34.48%.

Alternate Method

Given:

Markup = 30%, Discount = 10%, Faulty weight = 870 g instead of 1000 g.

Formula Used:

Net Profit % = [(Total SP / Total CP) − 1] × 100

Let the Cost Price (CP) of 1 g of goods be Rs. 1.

=> Actual CP for the shopkeeper (for 870 g) = 870 × 1 = Rs. 870.

=> Marked Price (MP) for 1000 g = 1000 + 30% of 1000 = Rs. 1300.

=> Selling Price (SP) after 10% discount on MP = 1300 − (10 / 100) × 1300.

=> SP = 1300 − 130 = Rs. 1170.

=> Net Profit = SP − CP = 1170 − 870 = Rs. 300.

=> Net Profit % = (300 / 870) × 100.

=> Net Profit % = (30 / 87) × 100 = (10 / 29) × 100 ≈ 34.48%.

Therefore The correct answer is 34.48%.

Additional Information

Dishonest Dealer Concept

Profit % due to weight fraud = [True Value − False Value] / False Value × 100. In this case, (1000 − 870) / 870 × 100.

Marked Price and Discount

Relationship: SP = CP × (1 + Markup %) × (1 − Discount %). This represents the price multiplier effect.

Successive Percentage Change

The effective percentage change for two successive changes x% and y% is [x + y + (xy / 100)]%.

Q76. Answer: (a) Mohiniyattam

The correct answer is Mohiniyattam.

Key Points

• Dr. Sunanda Nair is a Mohiniyattam performer, teacher, and proponent, who has gained high acclaim both in India and across its shores.

• Dr.Sunanda Nair is the first student in the country to have a Masters' degree in Mohini Attam from Nalanda Nritya Kala Mahavidyalaya affiliated with the University of Mumbai.

• She did her Ph.D. from the University of Mumbai for her thesis "Intrinsic Lyrical Feminism in Mohiniattam.

• Nair is a disciple of noted Mohiniyattam exponent Padmabhushan Dr.(Smt) Kanak Rele, credited for the revival and popularization of this classical Kerala dance style.

• Sunanda has been a part of many very reputed national and international festivals.

Additional Information

• Some important other classical dancers are Rukmini Devi Arundale – Bharatnatyam, Pandit Birju Maharaj- Kathak, Kelucharan Mohapatra – Odissi, Guru Bipin Singh – Manipuri, Padma Subrahmanyam – Bharatnatyam, Sonal Mansingh-Bharatnatyam & Odissi, Srimanta Sankardev – Sattriya, Alarmel Velli -Bharatnatyam.

Kathak	**Classical dance of Uttar Pradesh. Popular Dancers- Pandit Birju, Maharaj, Lachu Maharaj, Shambu Maharaj, Shovna Narayan, Kumari Kamala, Sunanya Hazarilal Agarwal, Pandit Durgalal, Rani Karna,**
Kuchipudi	Classical dance of Andhra Pradesh. Popular Dancers- Mallika Sarabhai,V. Satyanarayana Sarma, Deepa Sashindran,Vedantam Ramalinga Sastry, K. V. Satyanarayana, Shantala Shivalingappa, Shanmukha Srinivas. Usha Srinivasan
Kathakali	Classical dance of Kerela Popular Dancers- Kalamandalam Gopi, Kalamandalam Krishna Prasad, Kottakal Sivaraman, Kalamandalam Ramankutty Nair, Kalamandalam Vasu Pisharody, Kavungal Chathunni Panicker.

Q77. Answer: (b) Private Life of An Indian Prince

The correct answer is Private Life and An Indian Prince.

Key Points

• Private Life of An Indian Prince is written by Mulk Raj Anand, not Arundhati Roy.

• Mulk Raj Anand was an Indian author, novelist, and essay writer of English, he is well know for his for his reaslistic portrayal of the deprived class and poor in his writings.

Additional Information

• Capitalism, The God of Small Things, and An Ordinary Person’s Guide to Empire are written by Arundhati Roy.

• Arundhati Roy, full name Suzanna Arundhati Roy is an Indian author, actress, and political activist.

• She is best known for the award-winning novel The God of Small Things (1997) and for her involvement in environmental and human rights. causes.

• She won the Booker Prize for the novel God Of Small Things in the fiction category in 1997 and became the best-selling book by a non-expatriate Indian author.

• The Booker Prize, formerly known as the Booker Prize for Fiction (1969–2001) and the Man Booker Prize (2002–2019), is a literary prize awarded each year for the best novel written in English and published in the United Kingdom or Ireland.

Q78. Answer: (a) Ministry of Science and Technology

The correct answer is the Ministry of Science and Technology.

Key Points

• Union Minister of State (Independent Charge) Science & Technology Dr. Jitendra Singh launched the first-ever Mentorship Programme named 'DBT-Star College Mentorship Programme for Young Innovators to mark the 75th Year of India's Independence.

• It is a pan India Scheme that envisages Star College in every district of the country supported by the Department of Biotechnology.

• The plan includes organizing workshops, and meetings per month; handhold at colleges particularly in the rural areas or lesser endowed areas, and conducting outreach activities with government schools.

• The Star Status Colleges will help in incorporating the vision of DBT towards strengthening UG Science Courses throughout the country by mentoring the newer colleges through hand-holding and peer learning and bringing them under the aegis of the Star College Scheme.

Additional Information

• In the launch event on 08 NOV 2021, Delhi Dr. Jitendra Singh informed that a total of 278 undergraduate colleges across the country are currently being supported under the DBT Star College Scheme.

• Dr. Jitendra Singh is also the

• Minister of State (Independent Charge) of the Ministry of Science and Technology

• Minister of State (Independent Charge) of the Ministry of Earth Sciences

• Minister of State in the Prime Minister's Office

• Minister of State in the Ministry of Personnel

• Public Grievances and Pensions

• Minister of State in the Department of Atomic Energy

• Minister of State in the Department of Space

Ministry	Minister
Ministry of Tourism	Shri G. Kishan Reddy
Ministry of Heavy Industries and Public Enterprises	Mahendra Nath Pandey
Ministry of Shipping	Sarabanda Sonowal

Q79. Answer: (c) 2-methylbutane

The correct answer is 2-methyl butane.

Key Points

• Isopentane also called methyl butane or 2-methyl butane, is a branched-chain saturated hydrocarbon (an alkane) with five carbon atoms, with the formula C5H12.

• Isopentane is a compound having 5 carbon atoms with only a single branched chain.

• Isopentane is a volatile flammable liquid hydrocarbon (CH3)2CHC2H5 found in petroleum and used in gasoline and as a solvent.

Additional Information

• Dimethylbutane- Dimethylbutane is an isomer of hexane. It has the chemical formula (CH3)2CHCH(CH3)2.

• It is obtained by the action of sodium metal on an alkyl halide.

• Isobutane- Isobutane, also known as i-butane, 2-methylpropane, or methylpropane, is a chemical compound with the molecular formula HC(CH3)3. It is an isomer of butane.

• Butadiene- Butadiene is the organic compound with the formula (CH2=CH)2.

• It is a colorless gas that is easily condensed to a liquid.

Q80. Answer: (b) Spain and Netherlands

The correct answer is Spain and Netherlands.

Key Points

• The 2022 Women's FIH Hockey World Cup is the 15th edition of the Women's FIH Hockey World Cup.

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• It is a quadrennial world championship for women's national field hockey teams organized by the International Hockey Federation.

• It is going to be held in Terrassa, Spain, and Amstelveen, the Netherlands from 1 to 17 July 2022.

• The International Hockey Federation announced in December 2018 that the 2022 FIH Hockey World Cups will be held either in July 2022 or January 2023.

• In November 2019 it was announced that Spain and the Netherlands would host the tournament in July 2022.

Additional Information

• A total of 16 teams will participate in the world cup.

• FIH Hockey World Cup has been held since 1974.

• The 2018 tournament was held in London, England from 21 July to 5 August, Netherland was the winner of the tournament.

• The Fédération Internationale de Hockey (International Hockey Federation), commonly known by the acronym FIH, is the international governing body of field hockey and indoor field hockey.

• FIH was founded on 7 January 1924 in Paris.

• Its headquarters are in Lausanne, Switzerland and the president is Narinder Dhruv Batra.

Q81. Answer: (c) Sandeep Narwal

The correct answer is Sandeep Narwal.

Key Points

• Sandeep Narwal kabaddi player from Haryana, received the prestigious Arjuna award on 13th November 2021 by President Ramnath Kovind.

• Sandeep Narwal is the 37th Kabaddi player to receive the prestigious Arjuna award.

• He was born on 5 April 1993 and hails from Sonepat, Haryana.

• Sandeep Narwal was first selected for the Indian team in the Junior Asians games in 2011.

• He was the latter part of the Indian team that won the Gold medal in the South Asian Games 2016.

• He was also part of the Indian kabaddi team who won the Kabaddi World Cup 2016 and Dubai Masters 2018.

Additional Information

• Narwal made his debut in VIVO Pro Kabaddi with the Patna Pirates against Bengaluru Bulls.

• Currently, he plays from the team Delhi Dabangg.

• A total of 35 players was given Arjuna awards.

• The Arjuna Award, officially known as Arjuna Awards for Outstanding Performance in Sports and Games, is the second-highest sporting honour in India, the highest being the Major Dhyan Chand Khel Ratna Award.

• Both awards were first given in 1961.

Ajay Thakur	**Ajay Thakur is an Indian professional Kabaddi player and the former captain of the Indian National Kabaddi Team.**
Jasvir Singh	Jasvir Singh is an Indian professional Kabaddi player. He was a member of the India national kabaddi team that won the Asian Games Gold medal in 2014 and the World Cup in 2016.
Tejaswini Bai V	V. Tejeswini Bai is a representative of India in the sport of Kabaddi. She was a member of the kabaddi team that won a gold medal in the 2010 Asian Games in Guangzhou.

Q82. Answer: (c) Chhau

The correct answer is Chhau.

Key Points

• Pandit Gopal Prasad Dubey a well-known classical dancer of India awarded Padma Shri for his contribution in the field of Chhau dance in 2012.

• He is considered by many as the leading exponent of the Seraikella variant of the art form.

• He was born on June 25th, 1957 in Seraikella, Jharkhand, India from the age of 14 he began studying the basics of dance and music with the famous Seraikella Chhau dancer Late Guru Natasekhar Banbihari Pattanayak, and Guru Padma Shri Rajkumar S.N. Singhdeo and Padma Shri Guru Kedar Nath Sahoo.

• Pandit Gopal Prasad Dubey is the founder member/ Secretary of Trinetra Chhau dance Centre, Seraikella, Jharkhand.

Additional Information

• Pandit Gopal Prasad Dubey had held numerous workshops and master's teachers in several prestigious institutions in India and abroad.

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• Internationally, he had taught at Kansas University, Indian University of Pennsylvania, Harvard University, University of London, Chungang University of Seoul, Institute of Dramatic arts Seoul, Theatre group Inchon City in South Korea, Multi-cultural center of Inchon City, American College of Greece.

• Padma Shri also spelled Padma Shree, is the fourth-highest civilian award of the Republic of India, after the Bharat Ratna, the Padma Vibhushan, and the Padma Bhushan.

• Padma Shree award was first given in 1954.

• Other important classical dance

Classical Dance Name	State Name
Mohiniattam	Mohiniyattam is an Indian classical dance form that developed and remained popular in the state of Kerala
Sattriya	Classical dance of Assam
Panthi	Folk dance of Chattisgarh

Q83. Answer: (d) On the left side

The correct answer is On the left side.

Key Points

• Sodium is located on the left side of the periodic table in the first group.

• Sodium, atomic symbol Na, has an atomic number of eleven, and lies in group 1 on the periodic table, below lithium and to the left of magnesium.

• This element is in the alkali metals family, and it has only one valence electron.

• Sodium is used as a heat exchanger in some nuclear reactors, and as a reagent in the chemicals industry.

Additional Information

• The periodic table is a tabular array of the chemical elements organized by atomic number, from the element with the lowest atomic number, hydrogen, to the element with the highest atomic number.

• Dmitri Mendeleev is the father of the periodic table.

• The Modern Periodic Table that we use was developed by Henry Moseley.

• In a periodic table elements are arranged in columns, known as groups, and rows, called periods.

• There are a total of 4 blocks in the periodic table named s,p,d,f.

• S block contains groups 1 (alkali metals) and 2 (alkaline earth metals) elements.

• P block elements are found in periodic table groups (13-18).

• D block contains elements from groups (3 to 12).

• F block contains 14 elements named Lanthanoides after (Lanthanum) La (57) and 14 elements called Actinoides after (Actinium) Ac (89).

Q84. Answer: (a) State Channel

The correct answer is State Channels.

Key Points

• In India, the postal network is amongst the largest in the world.

• To facilitate quick delivery of emails in large towns and cities six main channels have been introduced recently.

• The introduction of mail channels has been initiated with the motive of improvement in communication networks especially long-distance communication.

Additional Information

• India has the world's largest postal network with more than 1.5 lakh post offices spread across the country,

• These channels are introduced by the Indian postal department which comes under the Department of Posts comes under the Ministry of Communication.

• Shri Ashwini Vaishnav is the current Minister of Communications.

• The six channels are named as

• Rajdhani channel

• Metro Channel

• Green Channel

• Business Channel

• Bulk mail channel

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• Periodical Channel.

Q85. Answer: (d) A.R. Rahman

The correct answer is A. R. Rehman.

Key Points

• Famous Indian singer and composer A. R. Rahman won the 'Best Original Song' and 'Best Original Score' awards in 2009 for his composition in the movie 'Slumdog Millionaire.

• At the 81st Academy Awards(2009), he won an Oscar for "Best Original Song" for 'Jai Ho from the film Slumdog Millionaire.

• The film was directed by Danny Boyle.

• Indian well-known composer Gulzar also won an Oscar for composing the song Jai Ho.

Additional Information

• Slumdog Millionaire had won eight Academy Awards, including those for best picture and best director.

• This movie also won Golden Globe and Bafta awards.

• Bhanu Athaiya- The first Indian to win an Academy Award for designing the costumes (55th Academy Awards) for the movie Gandhi(1982).

• Resul Pookutty-Resul Pookutty is an Indian film sound designer, sound editor, and audio mixer. He won the Academy Award for Best Sound Mixing, along with Richard Pryke and Ian Tapp, for Slumdog Millionaire.

• Mehboob Khan- Mehboob Khan was a pioneer producer-director of Indian cinema, best known for directing the social epic Mother India, the first Indian movie nominated for the Oscar.

Q86. Answer: (b) Javelin throw

The correct answer is Javelin Throw.

Key Points

• The javelin throw is a track and field event where the javelin, a spear about 2.5 m (8 ft 2 in) in length, is thrown.

• The javelin thrower gains momentum by running within a predetermined area.

• The javelin throw was added to the Ancient Olympic Games as part of the pentathlon in 708 BC.

• Throwing javelin-like poles into targets was revived in Germany and Sweden in the early 1870s.

Additional Information

• Legendary Czech athlete Jan Zelezny, a three-time world, and Olympic champion holds the men's javelin throw world record, courtesy of a massive 98.48m throw he registered in 1996 during an athletics meet in Germany.

• Javelin thrower Neeraj Chopra made history on August 7, 2021, by winning India's first-ever gold medal in athletics at the Tokyo Olympics. With a best throw of 87.58 meters.

• Neeraj Chopra has been in possession of the Indian national record in men's javelin throw since 2016.

• Olympic gold medal winner Neeraj Chopra breaks his own national record for the second time in a month with a throw of 89.94m at Stockholm Diamond League 2022.

Q87. Answer: (b) On the right side

The correct answer is On the right side.

Key Points

• Non-metals in the periodic table are present in the p block which lies on the right side of it.

• The total number of non-metals in the periodic table is 18.

• They are also found within groups 13-18, except hydrogen which is in group 1.

• Nonmetals occupy families such as halogens, noble gases, and metalloids.

Additional Information

• The periodic table is a tabular array of the chemical elements organized by atomic number, from the element with the lowest atomic number, hydrogen, to the element with the highest atomic number.

• Dmitri Mendeleev is the father of the periodic table.

• The Modern Periodic Table that we use was developed by Henry Moseley.

• In a periodic table elements are arranged in columns, known as groups, and rows, called periods.

Q88. Answer: (d) Zakir Hussain

The correct answer is Zakir Hussain.

Key Points

• Zakir Hussain is the youngest percussionist to be awarded Padma Shri and Padma Bhushan awards by the Government of

India.

• Zakir Hussain (born 9 March 1951) is an Indian tabla player, composer, percussionist, music producer, and film actor.

• He is the eldest son of tabla player Alla Rakha.

• He was awarded the Padma Shri in 1988, and the Padma Bhushan in 2002, by the Government of India presented by President Abdul Kalam.

• He also won the Sangeet Natak Akademi award in 1990, making him one of the youngest musicians to receive this recognition given by the Sangeet Natak Academy, India's National Academy of Music, Dance & Drama.

Additional Information

• Sivamani-

• Sivamani born on 1 December 1959 commonly known by his stage name Drums Sivamani, is an Indian percussionist.

• He plays many instruments including drums, octoban, darbuka, udukai, ghatam and kanjira.

• He performed drumming during the IPL Championships in 2008 and 2010.

• In 2019 he was conferred with Padma Shri.

• T H Vinakaram-

• Thetakudi Harihara Vinayakram, also known as Vikku Vinayakram, is an Indian percussionist.

• He is also known as the God of ghatam.

• He was awarded the Padma Shri, given by the Government of India in 2002, and later the 2012 Sangeet Natak Akademi Fellowship.

• Sarvar Sabri-

• Sarvar Sabri is a Birmingham-based composer and a leading classical dance accompanist.

• Sabri is from an accomplished musical family in New Delhi, India; his father, Ustad Sabri Khan, is globally recognized as a master of the sarangi.

• He has worked with many prolific Kathak dancers in the UK from the stars of the traditional genre such as Pratap Pawar to younger, contemporary dancers, including Akram Khan.

Q89. Answer: (b) Fluid mosaic model

The correct answer is the Fluid mosaic model.

Key Points

• According to the fluid mosaic model, the quasi-fluid nature of lipid enables lateral movement of protein within the overall, lipid bilayer.

• This ability to move within the membrane is measured as its fluidity.

• The fluid mosaic model was proposed by S.J. Singer and Garth L Nicolson.

• This model explains the structure of the plasma membrane of animal cells as a mosaic of components such as phospholipids, proteins, cholesterol, and carbohydrates, these components give a fluid character to the membranes.

Additional Information

• Cell Theory-

• In biology, cell theory is a scientific theory first formulated in the mid-nineteenth century, that living organisms are made up of cells.

• Cells are the basic structural/organizational unit of all organisms, and all cells come from pre-existing cells.

• The classical cell theory was proposed by Theodor Schwann in 1839.

• Model of Golgi bodies-

• In this model, the Golgi is viewed as a set of stable compartments that work together, each compartment has a unique collection of enzymes that work to modify protein cargo

• The Golgi apparatus also known as the Golgi complex, Golgi body, or simply the Golgi is an organelle found in most eukaryotic cells.

• It was identified in 1897 by the Italian scientist Camillo Golgi and was named after him in 1898.

• Vacuole Theory-

• A vacuole stores salts, minerals, pigments, and proteins within the cell.

• The solution that fills a vacuole is known as the cell sap.

• The vacuole is also filled with protons from the cytosol that helps in maintaining an acidic environment within the cell.

Q90. Answer: (c) One ampere is constituted by the flow of one coulomb of charge per second

The correct answer is One ampere is constituted by the flow of one coulomb of charge per second.

Key Points

• One ampere of current represents one coulomb of electrical charge, i.e. 6.24×1018 charge carriers, moving in one second.

• Ampere is the SI unit of current(I).

• Current is the rate of flow of charge(Q).

• I=Q\T(I-current, Q= charge, T= Time)

• SI unit of charge is Coulumb.

Additional Information

• According to Ohm's law current is also expressed as the current I in a conductor equals the potential difference V across the conductor divided by the resistance of the conductor, or simply I = V/R,

Q91. Answer: (c) Deputy Chairman of Rajya Sabha

The correct answer is Deputy Chairman of Rajya Sabha.

Key Points

• In the absence of the Speaker and the Deputy Speaker of Lok Sabha, the joint sitting of the parliament is presided by the Deputy Chairman of Rajya Sabha.

• The joint sitting of the Parliament is called by the President of India under Article 108.

• It is generally presided over by the Speaker of the Lok Sabha or, in their absence, by the Deputy Speaker of the Lok Sabha.

• Provision of Joint Sitting in the Indian constitution is taken from the constitution of Australia.

Additional Information

• According to Article 87 of the Constitution, there are two instances when the country’s President specifically addresses a joint sitting of both Houses:

1. At the start of the first session after a general election, when the reconstituted Lok Sabha meets for the first time after being elected.

2. At the start of the first session every year.

• The Chairman of Rajya Sabha- is the vice president of the country.

Q92. Answer: (b) 2009

The correct answer is 2009.

Key Points

• Shamshad Begum born on 14 April 1919 – 23 April 2013 was an Indian singer who was one of the first playback singers in the Hindi film industry.

• In 2009, she was conferred with the prestigious O. P. Nayyar Award for her contribution to Hindi film music.

• She was also conferred the Padma Bhushan in 2009.

• She sang over 6,000 songs in Hindi, Bengali, Marathi, Gujarati, Tamil, and Punjabi languages, among which 1287 were Hindi film songs.

• She worked with renowned composers of the time, such as Naushad Ali and O. P. Nayyar.

Additional Information

• She started to become popular when she began singing on All India Radio (AIR) in Peshawar and Lahore in 1937.

• She sang four out of twelve songs in the first Indian Oscar-nominated movie Mother India.

• Her most famous songs are, Leke Pehla Pehla Pyar, Kahin Pe Nigahen Kahin Pe Nishana, Boojh Mera Kya Naam Re, Kabhi Aar Kabhi Paar Laga Teer-e-Nazar.

• Some of the popular movies in which she sang are Daku Mangal Singh, Upkar, Kismat, Heer Ranjha, Johar Mehmood in Hong Kong, Teri Meri Ik Jindri, and Main Papi Tum Bakhshanhaar.

Q93. Answer: (a) Madurai Shanmukhavadivu Subbulakshmi

The correct answer is Madurai Shanmukhavadivu Subbulakshmi.

Key Points

• Madurai Shanmukhavadivu Subbulakshmi was an Indian Carnatic singer from Madurai, Tamil Nadu.

• She was the first musician ever to be awarded the Bharat Ratna, India's highest civilian honor.

• She is also the first Indian musician to receive the Ramon Magsaysay award[2] in 1974 with the citation reading "Exacting purists acknowledge Srimati M. S. Subbulakshmi as the leading exponent of classical and semi-classical songs in the Carnatic tradition of South India.

• M.S. also acted in a few Tamil films in her youth, her first movie, Sevasadanam, was released on 2 May 1938.

• She was conferred with a number of awards for his excellence some of the are

• Padma Bhushan in 1954

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• Sangeet Natak Akademi Award in 1956

• Sangeetha Kalanidhi in 1968

• Ramon Magsaysay award (often considered Asia's Nobel Prize) in 1974

• Padma Vibhushan in 1975

Additional Information

• Bismillah Khan- Bismillah Khan, often referred to by the title Ustad, was an Indian musician credited with popularizing the shehnai at the global level. In 2001 Khan was awarded the Bharat Ratna, India’s highest civilian honor.

• Lata Mangeshkar-

• Lata Mangeshkar was an Indian playback singer and occasional music composer.

• She is widely considered to have been one of the greatest and most influential singers in India.

• She became part of the Indian music industry for 8 decades and gained many titles like "Queen of Melody", "Nightingale of India", and "Voice of the Millennium"

• Lata recorded songs in over thirty-six Indian languages and a few foreign languages.

• Ravi Shankar-

• Ravi Shankar was an Indian sitarist and composer.

• A sitar virtuoso, he became the world's best-known exponent of North Indian classical music in the second half of the 20th century and influenced many musicians in India and throughout the world.

• Only Indian to win 5 Grammy awards.

Q94. Answer: (c) Mission Indradhanush

The correct answer is Mission Indradhanush.

Key Points

• Union health minister Mansukh Mandaviya on 7 February 2022 virtually launched the Intensified Mission Indradhanush 4.0 which aims to protect children and pregnant women from life-threatening diseases.

• The mission Indradhanush 4.0 will have three rounds and will be conducted in 416 districts (including 75 districts identified for Azadi ka Amrit Mahotsav) across 33 states and UTs, the health ministry said in a statement.

• Mission Indradhanush (MI) was launched by the Ministry of Health and Family Welfare (MOHFW) on 25th December 2014 with the aim of expanding immunization coverage to all children across India.

Additional Information

• Mission Indradhanush Phase I was started as a weeklong special intensified immunization drive on 7th April 2015 in 201 high-focus districts for four consecutive months.

• The Phase II of Mission Indradhanush covered 352 districts in the country of which 279 are medium-focus districts and the remaining 73 are high-focus districts of Phase-I.

• Phase III of Mission Indradhanush was launched on 7 April 2016 covering 216 districts. Four intensified immunization rounds were conducted for seven days each between April and July 2016, in these districts.

• Phase IV of Mission Indradhanush was launched on 7 February 2017 covering the North-eastern states of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, and Tripura. It has been rolled out in rest of the country during April 2017.

• Mission Arogya-

• Mission Shakti-In October 2020, the UP government launched the 'Mission Shakti' program to create awareness about women's empowerment in the state. The six-month-long campaign, which will last from Shardiya Navratri to Chaitra Navaratri in April 2021, is aimed to provide safety and security to women in the state.

• Mission Suraksha-The Government of India has announced the stimulus package of Rs. 900 crores for the Mission COVID Suraksha, the Indian Covid-19 Vaccine Development Mission, which will help the development process of the vaccine candidates.

Q95. Answer: (d) Shantabai Krushnaji Kamble

The correct answer is Shantabai Krushnaji Kamble.

Key Points

• Majya Jalmachi Chittarkatha translated as The Kaleidoscope Story of My Life is an autobiography of Shantabai Kamble published in 1983.

• This is considered the first autobiographical narrative by a Dalit woman writer.

• Shantabai Krushnaji Kamble was born in a Mahar Dalit family on 1 March 1923.

Additional Information

• Kusumagraj- Vishnu Vaman Shirwadkar, popularly known by his pen name, Kusumagraj, was a Marathi poet, playwright, novelist, and short story writer, who wrote of freedom, justice, and emancipation of the deprived,

• Sunita Deshpande- Sunita Deshpande was an Indian writer born on 3 July 1926 and was fondly called "Sunitabai".

• Shivaji Sawant- Shivaji Sawant was an Indian novelist in the Marathi language. He is known as Mrutyunjaykaar for writing the famous Marathi novel - Mrutyunjay. He was the first Marathi writer to be awarded the Moortidevi Award in 1994.

Q96. Answer: (a) First year

The correct answer is the First Year.

Key Points

• A base year is the first of a series of years in an economic or financial index.

• New, up-to-date base years are periodically introduced to keep data current in a particular index.

• Any year can serve as a base year, but analysts typically choose recent years.

• Base year refers to the base point in the time of a time series.

Additional Information

• Economic Index is a statistical measure of change in a representative group of individual data points.

• These data may be derived from any number of sources, including company performance, prices, productivity, and employment.

Q97. Answer: (c) Mercury

The correct answer is Mercury.

Key Points

• A terrestrial planet or rocky planet is a planet that is composed primarily of silicate rocks or metals.

• The planets closest to the sun are terrestrial planets.

• In our solar system, there are 4 terrestrial planets they are Mercury, Venus, Earth, and Mars.

• The other four planets are called Jovian planets.

Additional Information

• One of the main differences that can be seen between terrestrial and jovian planets, is their surfaces.

• While the terrestrial planets are made of solid surfaces, the jovian planets are made of gaseous surfaces.

• There is a total of 8 planets in our solar system.

• Jupiter is the largest planet in our solar system.

• Mars is also called Red Planet.

• Venus is called Morningstar, Eveningstar, it is also the hottest planet of solar system.

Q98. Answer: (d) Bharatanatyam

The correct answer is Bharatnatyam.

Key Points

• Meenakshi Srinivasan received the Ustad Bismillah Khan Yuva Puraskar 2011 for her excellence in Bharatnatyam dance.

• Meenakshi Srinivasan is an Indian classical dancer and choreographer, and an exponent of the Pandanallur style of Bharatnatyam.

• She has been conferred the titles Natya Kala Vipanchee (2007), Natya Kala Dharshini (2012), and Nrtya Abhinaya Sundaram.

• The awards were presented by the chairperson of the Academy Leela Samson at a function in New Delhi.

• The Ustad Bismillah Khan Yuva Puraskar award carries prize money of Rs 25,000.

• Bharatnatyam is the classical dance of Tamil Nadu.

• It traces its origins back to the Natyashastra, an ancient treatise on theatre written by the mythic priest Bharata.

Additional Information

• Thirty-two artists under the age of 35 from all over the country in various categories of performing arts were presented with the Ustad Bismillah Khan Yuva Puraskar for 2011 by Sangeet Natak Akademi.

• Sattriya-Classical dance of Assam.

• Mohiniattam- Classical dance of Kerela.

• Kuchipudi- Classical dance of Andhra Pradesh.

Q99. Answer: (b) 2002

The correct answer is 2002.

Key Points

• Sri Shanmukhananda National Eminence Award was set up in the Golden Jubilee year of the establishment of Sri Shanmukhananda fine & Sangeetha Sabha 2002 with the title 'Sangeetha Kala Vibhushan'.

• The award was set up to provide a national framework for honoring veterans in the field of performing arts, as well as emerging

stars.

• This award covers the fields of music, dance, theatre, and Fine Arts Administrators.

• The award carries a cash prize of Rs 2,50,000, a Citation, a gold-coated lamp, a trophy, and a shawl.

Additional InformationNational Eminence Awardees

Year	Date	Awardee	Category
2017	17/12/2017	Pandit Ramnarayan	Sarangi
2018	15/12/2018	Ustad Zakir Hussain	Tabla
2019	7/12/2019	Dr. Umayalpuram Sivaraman	Mrudangam
2020	5/12/2020	Shri. V. P. Dhananjayan	Dance
2021	27/03/2021	Pandit Arvind Parikh	Hindustani Sitar

Q100. Answer: (d) Arundhati Roy

The correct answer is Arundhati Roy.

Key Points

• The God of Small Things is a novel written by Indian writer Arundhati Roy.

• Arundhati Roy was awarded Man Booker Prize for fiction in 1997 for her novel The God of Small Things.

• Her notable works include:

• The God of Small Things

• The Ministry of Utmost Happiness

• Kashmir: the case of freedom

• Azadi: Freedom Fascism, Fiction.

Additional Information

• Chetan Bhagat

• In 2010, he was included in Time magazine's list of the world's 100 most influential people.

• His notable works:

• Five Point Someone

• 2 states

• The 3 Mistakes of My Life

• Half Girlfriend.

• Kiran Desai

• In 2006, she was awarded the Man Booker Prize for her novel The Inheritance of Loss.

• In 2015, The Economic Times listed her as one of the 20 most influential global Indian women.

• Her notable works:

• The Inheritance of Loss

• Hullabaloo in the Guava Orchard.

• Salman Rushdie

• He is an Indian-born British-American novelist and essayist.

• His work, combining magical realism with historical fiction, is primarily concerned with the many connections, disruptions, and migrations between Eastern and Western civilizations, with much of his fiction being set on the Indian subcontinent.

• His second novel, Midnight's Children (1981), won the Booker Prize in 1981.

• Jhumpa Lahiri:

• Jhumpa Lahiri (born July 11, 1967, London, England) is an English-born American novelist and short-story writer whose works illuminate the immigrant experience, in particular, that of East Indians.

• She is the author of:

• Interpreter of Maladies (won PEN/Hemingway Award, Pulitzer Prize for Fiction)

• The Namesake

• Unaccustomed Earth

• The Lowland

• In Other Words.

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