SSC CHSL Tier-1 2021: Official Paper (Held On : 1 June 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 option that can be used as a one-word substitute for the given group of words.

Zeal; burning enthusiasm; passion

(a) Arid
(b) Ardour
(c) Arcuate
(d) Arena

Q2. 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. It is unquestionably evident that this virus brought misery and grief into the lives of people of other professions too.

B. Covid-19 changed the form and face of every field in the world. It did not leave any field untouched.

C. One of the most affected areas is education. Millions of students all over the world could not get a proper education.

D. Millions of teachers who are working, specifically in private educational institutes, were not paid a full salary during the pandemic.

(a) ACDB
(b) BCDA
(c) DABC
(d) CBDA

Q3. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Vishnu and family are looking around into the possibility of moving to Canada.

(a) are looking upto
(b) look into
(c) are looking into
(d) are looking around to

Q4. Select the most appropriate meaning of the given idiom.

Hit the books

(a) To have a very long list
(b) To feel sorry about a mistake
(c) Become very confused
(d) To study very hard

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

Devastate

(a) Destroy
(b) Produce
(c) Recite

(d) Suppress

Q6. Select the most appropriate option to fill in the blank.

We would have loved to stay _____ like children all our lives.

(a) innocent
(b) shy
(c) fragile
(d) cunning

Q7. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I remember vivid / the last road trip / we had / before the pandemic hit.

(a) the last road trip
(b) we had
(c) before the pandemic hit
(d) I remember vivid

Q8. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The manager / did not / gone to / Bombay yesterday.

(a) gone to
(b) did not
(c) Bombay yesterday
(d) The manager

Q9. Select the most appropriate ANTONYM of the given word.

Squalid

(a) Contemporary
(b) Bare
(c) Advanced
(d) Clean

Q10. Select the most appropriate synonym of the given word.

Vanity

(a) Beauty
(b) Empty
(c) Humility
(d) Conceit

Q11. Select the option that expresses the given sentence in active voice.

Diwali sweets were being prepared by our grandmother.

(a) Our grandmother prepared Diwali sweets.
(b) Our grandmother was preparing Diwali sweets.
(c) Our grandmother is preparing Diwali sweets.
(d) Our grandmother prepares Diwali sweets.

Q12. Select the most appropriate option that can substitute the underlined segment in the given sentence.

This cat and mouse game are famous with all children in the future.

(a) would have been
(b) is
(c) will be
(d) was

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Q13. Select the most appropriate option to fill in the blank.

The Mahatma Gandhi National Rural Employment Guarantee Act 2005 (Mahatma Gandhi NREGA) aims at enhancing _____ security of households in rural areas of the country by providing at least one hundred days of guaranteed wage employment in a financial year to every household whose adult members volunteer to do unskilled manual work.

(a) balanced
(b) total
(c) strict
(d) livelihood

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

A piece of cake

(a) An ambitious person
(b) An easy task
(c) An obstacle
(d) A punishment

Q15. Select the most appropriate synonym of the given word.

Profess

(a) Convince
(b) Assume
(c) Predict
(d) Declare

Q16. Select the INCORRECTLY spelt word.

(a) Glamour
(b) Quarantine
(c) Guarantee
(d) Queeuee

Q17. Select the INCORRECTLY spelt word.

(a) Philosophy
(b) Geography
(c) Economics
(d) Spychology

Q18. Select the most appropriate ANTONYM of the word given in bold in the following sentence.

I broke away from their solicitous grip.

(a) worried
(b) heedless
(c) knowledgeable
(d) interesting

Q19. In the following question, a statement has been given with highlighted text. Select the options that can replace the text with the correct idiom or phrase

The coach felt extremely nervous on seeing the team performing poorly in the first quarter.

(a) Heart skipped a beat
(b) Like a cakewalk
(c) Crying Wolf
(d) Raining cats and dogs

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Q20. Select the sentence which has no spelling error.

(a) Playing and eating are the two prime works during vecation.
(b) Ooty is my dream vacashun spot.
(c) Geeta is going to Pune for vakation.
(d) Children welcome summer vacation with zeal.

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.

Claims have been made that vaccines are responsible for certain (1)_____ health conditions, particularly autism, speech disorders, and inflammatory bowel disease. Some of those claims focused on thimerosal, a mercury-containing compound used as a preservative in vaccines. Some people believed that autism (2)_____ a form of mercury poisoning, caused specifically by thimerosal in childhood vaccines. Those claims have been discredited. Still, misinformation and fear generated by false claims about associations (3)_____ autism and vaccines had a significant impact on individuals' perceptions about vaccine safety. (4)_____, most individuals in countries where vaccination is widespread have never personally experienced the vaccine-preventable disease. Thus, the focus of concern for some people shifted from the negative effects of the vaccine-preventable disease to the possible negative effects of the vaccines (5)_____.

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

(a) contemptuous
(b) adverse
(c) affirm
(d) disperse

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

(a) will
(b) shall
(c) was
(d) were

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

(a) one another
(b) between
(c) each other
(d) through

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

(a) For instance
(b) Therefore
(c) In addition
(d) Likewise

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

(a) themselves
(b) yourself
(c) ourselves
(d) itself

GENERAL INTELLIGENCE

Q26. 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 fourth term is related to third term.

POINT : TPKQP :: BONES : SPPHB :: SEVEN : ?

(a) MEXHS
(b) NEXHS

(c) MFXHS
(d) NFXHS

Q27. Which of the following numbers will replace the question mark (?) in the given series?

11, 33, 38, 266, 275, ?

(a) 3030
(b) 3035
(c) 3025
(d) 3020

Q28. In a certain code language, 'FLUTE' is written as 'VGFOU' and 'EXILE' is written as 'VORCV'. How will 'BLOOD' be written in that language?

(a) WLLDB
(b) WLLOY
(c) WLOYD
(d) WLLOB

Q29. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

115 * 25 * 15 * 2 * 3

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

Q30. Each of the seven friends, Kirti, Siya, Amita, Preeti, Deepika, Jeet and Pari, has scored different marks in an exam. Pari has scored more than Kirti but less than Siya. Deepika has scored less than Preeti but more than Amita. Kirti has scored more than Preeti. Siya is not the highest scorer.

Who among the following has scored more than Pari?

(a) Jeet
(b) Deepika
(c) Amita
(d) Preeti

Q31. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 16, 12, 48

Second row: 9, 8, 24

Third row: 4,24 ?

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

(a) 48
(b) 46
(c) 50
(d) 44

Q32. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 14, 4, 31

Second row- 38, 10, 79

Third row- 30, 8, ?

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

(a) 78
(b) 73

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(c) 63
(d) 68

Q33. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

54 * 14 * 5 * 72 * 18 * 31 * 11

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

Q34. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(15, 5, 150)

(7, 5, 14)

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

(a) (16, 8, 128)
(b) (12, 6, 40)
(c) (11, 8, 37)
(d) (14, 7, 108)

Q35. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All shoes are boots.

All boots are heels.

Some slippers are shoes.

Conclusions:

I. All shoes are heels.

II. No slipper is a boot.

III. All shoes are slippers.

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

Q36. Which of the following numbers will replace the question mark (?) in the given series?

11, 22, 19, ?, 71, 426

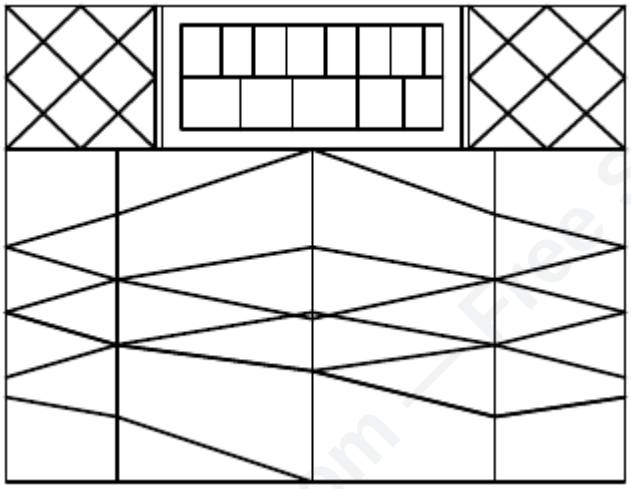
(a) 76
(b) 80
(c) 82
(d) 77

Q37. 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.

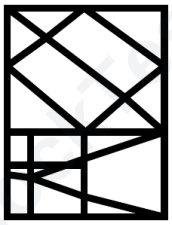
(a) 93 - 310
(b) 54 - 180
(c) 48 - 165
(d) 33 - 110

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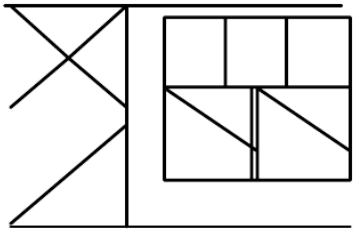
Q38. Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).



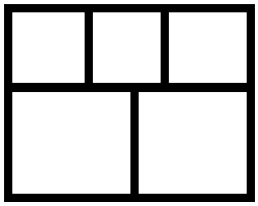
(a)



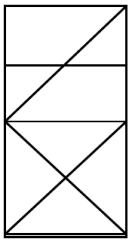
(b)



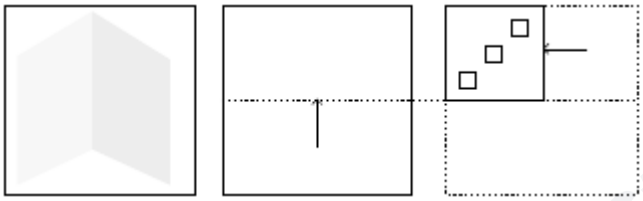
(c)



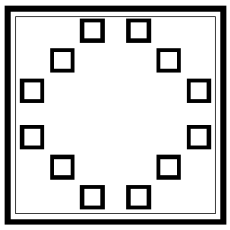
(d)



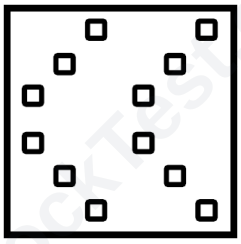
Q39. A paper is folded and cut as shown. How will it appear when unfolded?



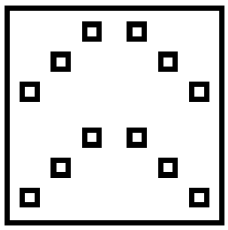
(a)



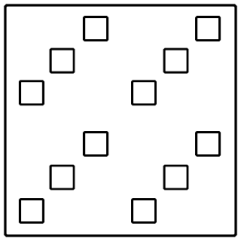
(b)



(c)



(d)



Q40. Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

WVU, RQP, MLK, HGF, ?

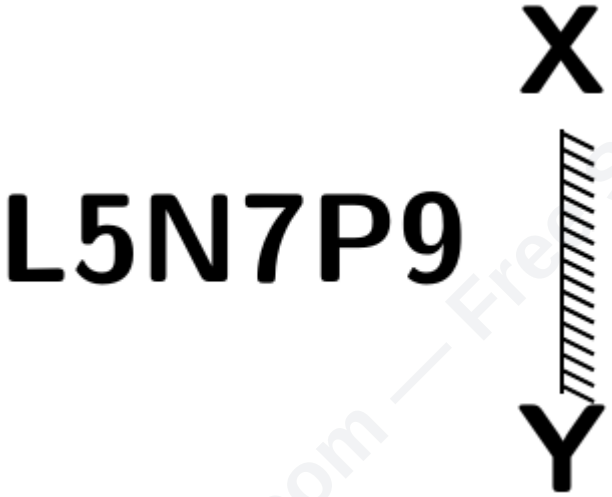
(a) CBA
(b) DCB
(c) BAZ
(d) DCA

Q41. In a certain code language, 'RISE' is written as ‘QSHJRTDF’ and ‘FALL’ is written as ‘EGZBKMKM’. How will 'KING' be written in that language?

(a) JOHJMOFH
(b) JLHJMORD
(c) OLHJMOFH
(d) JLHJMOFH

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Q42. Select the correct mirror image of the given combination when the mirror is placed at XY as shown.



(a)



(b)



(c)



(d)



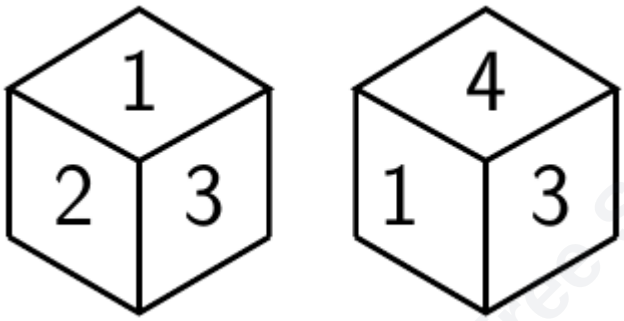
Q43. Which letter-cluster will replace the question mark (?) to complete the given series?

XHFM, TEDL, PBBK, ?, HVXI

(a) MYYK
(b) LYZJ
(c) MZXK
(d) NZYJ

Q44. Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the one showing '4'.

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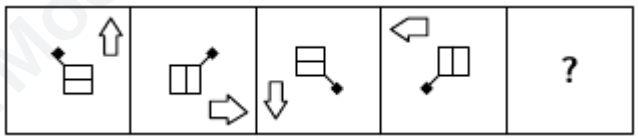


(a) 6
(b) 1
(c) 3
(d) 2

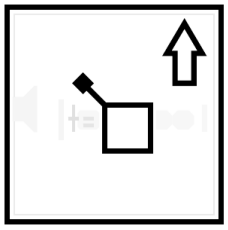
Q45. If 19 September 1999 was Sunday, then what was the day of the week on 19 January 2001?

(a) Friday
(b) Thursday
(c) Saturday
(d) Sunday

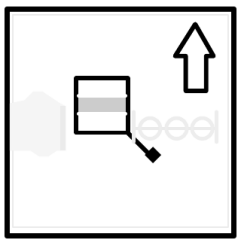
Q46. Select the figure from among the given options that can replace the question mark (?) in the following series.



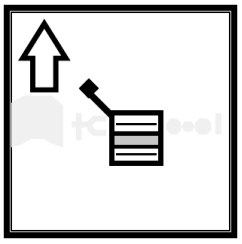
(a)



(b)

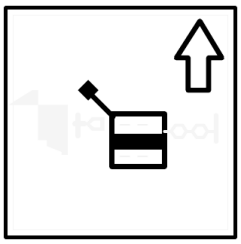


(c)



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(d)



Q47. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

16 * 8 * 10 * 2 * 4 * 28

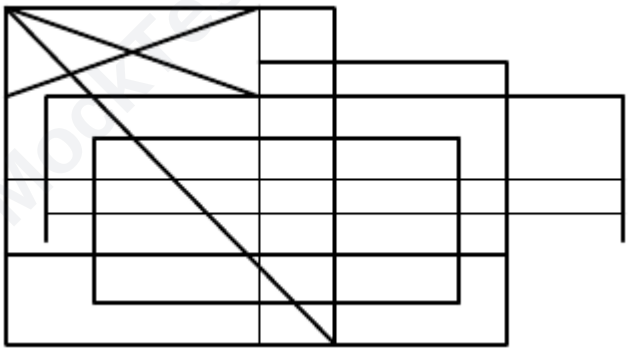
(a) ×, ÷, –, +, =

(b) ÷, ×, +, –, =

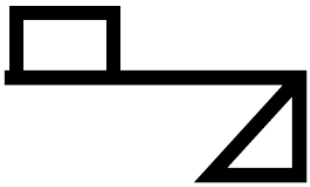
(c) –, +, ÷, ×, =

(d) ÷, ×, –, +, =

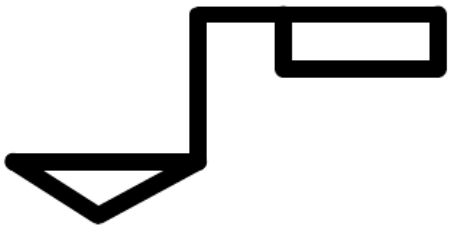
Q48. Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).



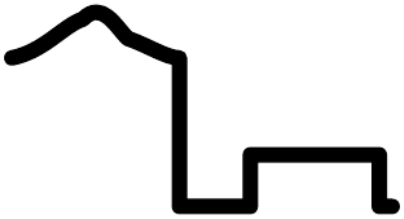
(a)



(b)



(c)



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(d)



Q49. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Ancestors
2. Analyze
3. Antibiotic
4. Analogies
5. Android

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

Q50. Which two numbers, from amongst the given options, should be interchanged to make the given equation correct?

$(2)^3 \div 4 + (72 \div 6) \times 9 - (21 \times 3) + (15 \times 7) = 92$

(a) 6 and 3
(b) 3 and 7
(c) 3 and 9
(d) 6 and 9

QUANTITATIVE APTITUDE

Q51. A bought a toy at a discount of 35%. If he paid Rs. 975, then find the marked price of the toy.

(a) Rs. 1,550
(b) Rs. 1,650
(c) Rs. 1,600
(d) Rs. 1,500

Q52. Calculate the 3^(rd) proportional to 14 and 28.

(a) 65
(b) 16
(c) 24
(d) 56

Q53. Expand $x^2 + 2x + 3$ about x = - 2.

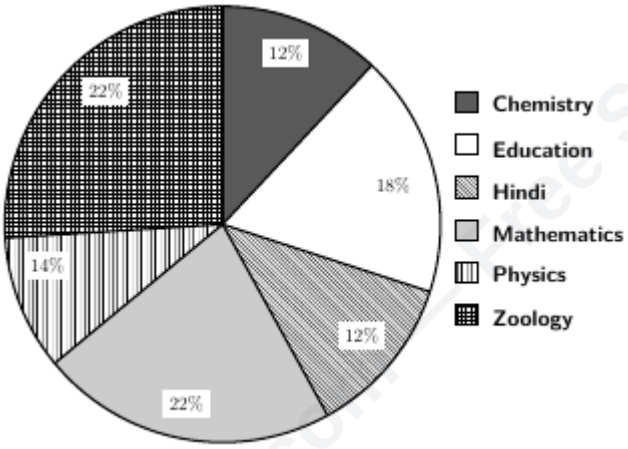
(a) $(x - 2)^2 - 2(x + 2) + 3$
(b) $(x + 2)2 - 2(x + 2) + 3$
(c) $(x + 2)2 + 2(x + 2) + 3$
(d) $(x - 2)^2 - 2(x - 2) - 3$

Q54. The marked price of 42 items was equal to the cost price of 70 items. The selling price of 25 items was equal to the marked price of 21 items. Calculate the percentage profit or loss from the sale of each item.

(a) 42% profit
(b) 29% profit
(c) 29% loss
(d) 40% profit

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Q55. The following pie chart describes the number distribution of research scholars department-wise in a university. The strength of scholars of which two given subjects exceeds the combined strength of the scholars from Physics and Mathematics?



(a) Zoology and Chemistry
(b) Hindi and Education
(c) Zoology and Education
(d) Hindi and Zoology

Q56. Priya covers a certain distance by her car at a speed of 21 km/h and returns at a speed of 17 km/h. What is her average speed during the travel?

(a) 1815/19 km/h
(b) 1915/18 km/h
(c) 1715/21 km/h
(d) 1819/15 km/h

Q57. The average weight of 8 men is increased by 2 kg when one of them, whose weight is 90 kg, is replaced by another man. What is the weight of the new man?

(a) 74 kg
(b) 116 kg
(c) 92 kg
(d) 106 kg

Q58. The population of a city increases by 10% annually. If its present population is 21,000, what will be the population in 3 years?

(a) 27,951
(b) 27,981
(c) 27,971
(d) 27,961

Q59. A motorcycle covers 50 km at a speed of 25 km/h. Find the speed of the motorcycle for the next 50 km of the journey so that the average speed of the whole journey will be 30 km/h.

(a) 32.5 km/h
(b) 37.5 km/h
(c) 40 km/h
(d) 35 km/h

Q60. Which of the following numbers is divisible by 15?

(a) 1,65,485
(b) 3,06,045
(c) 2,12,695
(d) 2,95,145

Q61. Among the following options, which are NOT sides of a triangle?

(a) 12 cm, 9 cm and 15 cm
(b) 20 cm, 20 cm and 20 cm
(c) 3 cm, 5 cm and 4 cm
(d) 3 cm, 5 cm and 1 cm

Q62. Arun alone can finish a work in 12 days and Shama alone can do it in 15 days. How much time will be taken to finish the work, if Arun and Shama work together?

(a) 52/3 days
(b) 71/3 days
(c) 51/3 days
(d) 62/3 days

Q63. Using 2cosA cosB = cos(A + B) + cos(A – B), find the value of cos75°cos15°.

(a) 1/2
(b) 1/4
(c) (√3)/2
(d) (√3)/4

Q64. If x^4 + (1/(x^4)) = 322, then what is the value of x^3 - (1/(x^3)) ?

(a) 16
(b) 76
(c) 96
(d) 46

Q65. Simplify the following expression.

36/7 - {51/7 - (23/7 - 35/7 - 4)}

(a) 34/7
(b) 10/7
(c) 20/7
(d) 44/7

Q66. If a + b = 2c, then the value of a/(a - c) + c/(b - c) is:

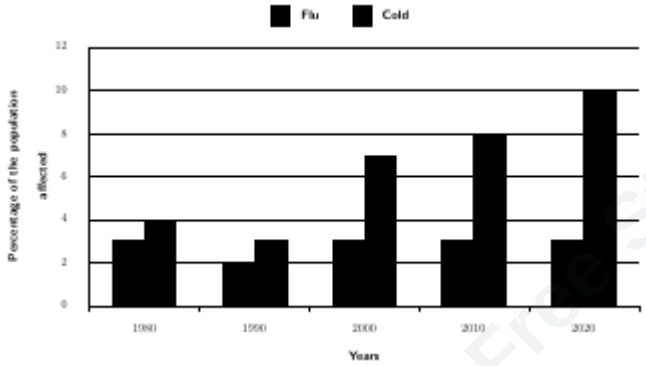
(a) 1/2
(b) 1
(c) 0
(d) -1

Q67. Find the volume of the cuboid, if its length is thrice its breadth and its breadth is 8 cm, which is twice its height.

(a) 768 cm^3
(b) 769 cm^3
(c) 767 cm^3
(d) 766 cm^3

Q68. Study the given graph and answer the following question.

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As per data available above in which of the given years was the percentage of the population affected by flue the minimum?

(a) 1980
(b) 1990
(c) 2000
(d) 2010

Q69. Under a sale offer for an item, Mahesh was offered 24% discount on the part of the marked price that was paid in cash, but was charged 1.5% on the part of the marked price paid through a credit card. If Mahesh paid 40% of the marked price in cash and the rest through a credit card and his total final payment was Rs. 6,391, what was the marked price of the item?

(a) Rs. 7,200
(b) Rs. 6,900
(c) Rs. 7,050
(d) Rs. 7,000

Q70. Ali and Badal start from the same position and at the same time in a 1200 m circular race, with speeds of 27 km/h and 45 km/h, respectively. Find after how much time they will meet again on the track for the first time when they are both running in the same direction.

(a) 280 seconds
(b) 240 seconds
(c) 250 seconds
(d) 220 seconds

Q71. A man spends 15% of his income on house rent, 60% of the rest on household expenses and saves the rest. If he saves Rs. 52,500, what is his total income (in Rs. , rounded off to the nearest tens)?

(a) 1,54,410
(b) 1,45,400
(c) 1,54,540
(d) 1,54,420

Q72. Find the volume of a cuboid 16 m long, 12 m broad and 6 m high.

(a) 1172 m^3
(b) 1572 m3
(c) 1100 m3
(d) 1152 m^3

Q73. The area of a triangle whose perimeter is 36 cm and length of two sides is 17 cm and 9 cm will be:

(a) 32 cm^2
(b) 33 cm2
(c) 36 cm2
(d) 35 cm^2

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Q74. The given table shows the production (in tonnes) of 4 minerals (Aluminium, Copper, Lead, Nickle) during 1990 to 1994. Study the table and answer the question:

Year	Aluminium	Copper	Lead	Nickel
1990	262	209	235	226
1991	294	212	238	232
1992	298	215	242	238
1993	296	226	266	244
1994	312	228	265	242

In the production of which of the following minerals was there a successive increase over the given years?

(a) Nickel
(b) Lead
(c) Copper
(d) Aluminium

Q75. Madhuri spends 80% of her salary and Sushma spends 95% of her salary. But the savings of both are equal. Find the income of Sushma, if the sum of their incomes is Rs. 10,000.

(a) Rs. 9,000
(b) Rs. 8,000
(c) Rs. 4,000
(d) Rs. 5,000

GENERAL AWARENESS

Q76. Thetakudi Harihara Vinayakram, an Indian percussionist, is known for popularising which of the following musical instruments?

(a) Tabla
(b) Sarangi
(c) Ghatam
(d) Sitar

Q77. What is the name of Pt. Ravi Shankar's autobiography?

(a) Music is Life
(b) My Life, My Music
(c) Music is My Life
(d) Musical Journey

Q78. What does ‘p’ in pH stand for?

(a) Potenz
(b) Potential
(c) Pleural
(d) Potencial

Q79. The Chairman of the Legislative Council is:

(a) elected by the Chief Minister and their Cabinet
(b) appointed by the Chief Minister of that state
(c) elected by the members of the Legislative Council
(d) appointed by the Governor of that state

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Q80. Sheik Chinna Moulana used to play which of the following instruments?

(a) Mridangam
(b) Ghatam
(c) Tabla
(d) Nadhaswaram

Q81. 'Ustad Bismillah Khan Yuva Puraskar' is given by which of the following bodies?

(a) National School of Drama
(b) Bhartiya Vidya Bhavan
(c) Gandharva Mahavidyalaya
(d) Sangeet Natak Akademi

Q82. What is a way in which adaptation does NOT take place?

(a) Physiological
(b) Emotional
(c) Behavioural
(d) Morphological

Q83. Ricky Kej a globally acclaimed musician from India won the 57th Grammy Award for which of the following contributions?

(a) Divine Tides
(b) Winds of Samsara
(c) Mountain Dreams
(d) Mystic Mountains

Q84. In 1817, which law of periodicity showed that the atomic weight of phosphorus is the mean of those of nitrogen and arsenic?

(a) Moseley's Periodic Law
(b) Mendeleev's Periodic Law
(c) Dobereiner's Law of Triads
(d) Newlands' Octaves Law

Q85. Which of the following countries won the highest gold medals in Tokyo Olympics 2020?

(a) Japan
(b) Australia
(c) China
(d) United States of America

Q86. In 1820, who found that electric current causes a nearby magnetic needle to move and thus discovered electromagnetism?

(a) Benjamin Franklin
(b) James Clerk Maxwell
(c) Hans Christian Oersted
(d) Andre-Marie Ampere

Q87. Which of the following instruments is played by Anokhelal Mishra?

(a) Surbahar
(b) Sarod
(c) Shehnai
(d) Tabla

Q88. Which of the following is a tributary of Damodar river?

(a) Kangsabati
(b) Shilabati
(c) Rupnarayan

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(d) Barakar

Q89. Which 19-year-old wrestler became the first Indian wrestler to win a silver medal at World Wrestling Championship in October 2021 in the 57 kg weight category?

(a) Bhateri
(b) Anshu Malik
(c) Bipasha
(d) Sanju Devi

Q90. Shanta and VP Dhananjaya were awarded the Rashtriya Kalidas Samman for 2020-21 for significant contribution to which of the following dance forms?

(a) Bharatanatyam
(b) Odissi
(c) Kathakali
(d) Kuchipudi

Q91. Which of the following has been designated as the self-regulatory origination for Micro finance institutions in India?

(a) Jan-Dhan
(b) Sab-Dhan
(c) Dhan
(d) Sa-Dhan

Q92. Manjamma Jogati became India's first transgender folk dancer to receive a Padma Shri honour for her contribution to art in the year _____.

(a) 2012
(b) 2021
(c) 2009
(d) 2018

Q93. Who gives the Bharat Muni Samman?

(a) Nalanda Dance Research Centre
(b) Government of India
(c) Sangeet Natak Akademi
(d) State Government

Q94. In which sport is free throw used?

(a) Volleyball
(b) Softball
(c) Basketball
(d) Throw ball

Q95. The lifting of an object up and down, the parade of an army and the free fall of a heavy object are all examples of which motion?

(a) Rectilinear motion
(b) Periodic motion
(c) Rotational motion
(d) Oscillatory motion

Q96. Who is the author of the book 'All From Memory: An Autobiography'?

(a) Leila Seth
(b) BV Acharya
(c) Margaret Alva
(d) Sita Ram Goel

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Q97. In February 2022, which state launched the 'Paray Shikshalaya' scheme under which elementary education and mid-day meals for students from class 1 to 7 will be provided in open air classrooms?

(a) Tripura
(b) Assam
(c) West Bengal
(d) Odisha

Q98. Who among the following is the author of the book 'The Coward And The Sword'?

(a) Rushad Rana
(b) Jimmy Shergill
(c) Uday Chopra
(d) Jugal Hansraj

Q99. According to the Henry Cavendish experiment conducted in 1797-1798, what was the value of the universal constant of gravity?

(a) 7.75 × 10^(-13) N m²/kg²
(b) 5.75 × 10^(-10) N m²/kg²
(c) 6.75 × 10^(-11) N m²/kg²
(d) 3.75 × 10^(-9) N m²/kg²

Q100. As per the Essential Defence Services Act, 2021 new plan, how many ordnance factories that make ammunition and other equipment for the armed forces will become part of the seven government-owned corporate entities?

(a) 41
(b) 27
(c) 46
(d) 39

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) Ardour

The solution is in Hindi. Read it online.

Q2. Answer: (b) BCDA

The correct answer is "BCDA"

Key Points

• Let's look at the correct sequence of the passage.

• Statement B is the opening sentence of the passage which explains that every field in the world has transformed because to COVID-19. No field was left unaffected by it.

• Statement C is the second sentence of the passage which explains that education is one of the most severely impacted fields.

Millions of youngsters worldwide were unable to receive a quality education.

• Statement D is the third sentence of the passage which explains that during the epidemic, millions of teachers who are currently employed—particularly those in private educational institutions were not paid their full salaries.

• Statement A is the last sentence of the passage which shows that It is without a doubt clear that this illness caused suffering and anguish in the lives of persons who worked in other professions as well.

Hence, the correct sequence is B, C, D, A

The correct answer is option 2.

The correct passage is: B. Covid-19 changed the form and face of every field in the world. It did not leave any field untouched. C. One of the most affected areas is education. Millions of students all over the world could not get a proper education. D. Millions of teachers who are working, specifically in private educational institutes, were not paid a full salary during the pandemic. A. It is unquestionably evident that this virus brought misery and grief into the lives of people of other professions too.

Q3. Answer: (c) are looking into

The correct answer is: are looking into

Key Points

• Remove the preposition 'around' to correct the sentence.

• Let's look at the meaning of the given phrasal verbs.

• "Looking around" means going through a place in order to see what is there: to explore a place.

• "Looking into" means trying to find out about something.

• "Looking upto" means to respect and admire someone.

• The sentence is talking about a possibility, so "looking into" should be used.

• We cannot use two prepositions (around and into) simultaneously in a single sentence. It doesn't make any sense.

• The implied meaning of the sentence is: Vishnu and his family are considering relocating to Canada.

Therefore, the correct answer is option 3, which can substitute the underlined segment in the given sentence.

Corrected sentence: Vishnu and family are looking into the possibility of moving to Canada.

Q4. Answer: (d) To study very hard

The solution is in Hindi. Read it online.

Q5. Answer: (a) Destroy

The solution is in Hindi. Read it online.

Q6. Answer: (a) innocent

The solution is in Hindi. Read it online.

Q7. Answer: (d) I remember vivid

The solution is in Hindi. Read it online.

Q8. Answer: (a) gone to

The erroneous part of the sentence is: gone to

Key Points

• Replace "gone" with "go" to correct the sentence.

• Gone is the third form of the verb "Go"

• The given sentence is written in simple past tense and in negative form.

• The structure should be: Subject + didnot+ v1+ object

• Example - I didn't want this to happen.

• So, the first form of the verb "go" should be used here.

Therefore, the correct answer is option 1, which contains an error in it.

Corrected sentence: The manager did not go to Bombay yesterday.

Q9. Answer: (d) Clean

The solution is in Hindi. Read it online.

Q10. Answer: (d) Conceit

The solution is in Hindi. Read it online.

Q11. Answer: (b) Our grandmother was preparing Diwali sweets.

The correct answer is: Our grandmother was preparing Diwali sweets.

Key Points

• The given sentence is in the passive form and we need to change it into the active form.
• The given sentence is written in the passive form of the past continuous tense.
• The past continuous tense in the passive voice has the following structure: Object+ was/were +being+V3+ by + subject
• The past continuous tense in the active voice has the following structure: Subject + was/were + v1+ing+ object
• Example -
• Passive voice - The wall was being painted by Rahul.
• Active voice - Rahul was painting the wall.
• Rules of Conversion from Passive to Active Voice:
• Identify the subject, the verb, and the object.
• Change the object into the subject.
• Change the verb into the past participle form of the verb.
• Change the subject into an object.

Therefore, the correct answer is option 2.

Correct Active Voice: Our grandmother was preparing Diwali sweets.

Q12. Answer: (c) will be

The correct answer is: will be

Key Points

• We know that when two singular nouns joined by "AND" denote the same person or thing, the pronoun used for them must be singular in number.
• The article ‘THE’ is placed before the first Noun.
• Here, in the given sentence "This cat and mouse game" is a singular subject.
• But the sentence is talking about a situation that will happen in the future, as "in the future" is already mentioned.
• So, we have to write the sentence in the simple future tense.
• For that reason, "will be" should be used in the given sentence.
• If the sentence was written in the present tense then we had to use "is" in place of "are."

Therefore, the correct answer is option 3, which can substitute the underlined segment in the given sentence.

Corrected sentence: This cat and mouse game will be famous with all children in the future.

Q13. Answer: (d) livelihood

The solution is in Hindi. Read it online.

Q14. Answer: (b) An easy task

The solution is in Hindi. Read it online.

Q15. Answer: (d) Declare

The solution is in Hindi. Read it online.

Q16. Answer: (d) Queeuee

The solution is in Hindi. Read it online.

Q17. Answer: (d) Spychology

The solution is in Hindi. Read it online.

Q18. Answer: (b) heedless

The solution is in Hindi. Read it online.

Q19. Answer: (a) Heart skipped a beat

The solution is in Hindi. Read it online.

Q20. Answer: (d) Children welcome summer vacation with zeal.

The solution is in Hindi. Read it online.

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Q21. Answer: (b) adverse

The solution is in Hindi. Read it online.

Q22. Answer: (c) was

The correct answer is: was

Key Points

• Let's look at the meaning of the given auxiliary verbs (helping verbs).

• Auxiliary or Helping verbs are used together with a main verb to show the verb's tense.

• 'Will' is used in all other persons (you, he/she, they).

• 'Shall' is used in the first person to form sentences in the future tense. (I, we)

• 'Was' is the first and third-person singular past tense of the verb to be.

• 'Were' is the second-person singular past and plural past of to be.

• In the given passage "autism" is a singular subject and the passage is written in the past tense.

• So, as per the usage of the given auxiliary verbs "was" is the most appropriate option.

Therefore, the correct answer is option 3.

Complete passage: Claims have been made that vaccines are responsible for certain (1) adverse health conditions, particularly autism, speech disorders, and inflammatory bowel disease. Some of those claims focused on thimerosal, a mercury-containing compound used as a preservative in vaccines. Some people believed that autism (2) was a form of mercury poisoning, caused specifically by thimerosal in childhood vaccines. Those claims have been discredited. Still, misinformation and fear generated by false claims about associations (3)_____ autism and vaccines had a significant impact on individuals' perceptions about vaccine safety. (4)_____, most individuals in countries where vaccination is widespread have never personally experienced the vaccine-preventable disease. Thus, the focus of concern for some people shifted from the negative effects of the vaccine-preventable disease to the possible negative effects of the vaccines (5)_____.

Q23. Answer: (b) between

The correct answer is: between

Key Points

• Let's look at the usage of the given words.

• 'One another' is used for each of two or more people, animals, etc, who are doing something together or in relationship to the other or others in the group.

• 'Between' is used to refer to the time, space, or differences that separate two things, people, places, ideas, etc.

• 'Each other' is used to show that each person in a group of two or more people does something to the others.

• 'Through' is used as a function word to indicate movement into at one side or point and out at another and especially the opposite side.

• In the given passage the difference of both autism and vaccine is shown here.

• The implied meaning of the sentence is: Nevertheless, misleading assertions regarding links among both autism and vaccinations created disinformation and anxiety that significantly influenced people's opinions of vaccine safety.

• So, as per the usage of the given words "between" is the most appropriate option.

Therefore, the correct answer is option 2.

Complete passage: Claims have been made that vaccines are responsible for certain (1) adverse health conditions, particularly autism, speech disorders, and inflammatory bowel disease. Some of those claims focused on thimerosal, a mercury-containing compound used as a preservative in vaccines. Some people believed that autism (2) was a form of mercury poisoning, caused specifically by thimerosal in childhood vaccines. Those claims have been discredited. Still, misinformation and fear generated by false claims about associations (3) between autism and vaccines had a significant impact on individuals' perceptions about vaccine safety. (4)_____, most individuals in countries where vaccination is widespread have never personally experienced the vaccine-preventable disease. Thus, the focus of concern for some people shifted from the negative effects of the vaccine-preventable disease to the possible negative effects of the vaccines (5)_____.

Q24. Answer: (a) For instance

The correct answer is: For instance

Key Points

• Let's look at the usage of the given words.

• 'For instance' is used especially as an example of something that happens generally.

• 'Therefore' is used as a result; because of that; for that reason.

• 'In addition' is used as an extra piece of information.

• 'Likewise' is used in the same way or manner; similarly.

• The implied meaning of the sentence is: "For example, the majority of people in nations with high vaccination rates have never directly encountered the sickness that vaccines can prevent."

• So, as per the usage of the given words "For instance" is the most appropriate option.

Therefore, the correct answer is option 1.

Complete passage: Claims have been made that vaccines are responsible for certain (1) adverse health conditions, particularly autism, speech disorders, and inflammatory bowel disease. Some of those claims focused on thimerosal, a mercury-containing compound used as a preservative in vaccines. Some people believed that autism (2) was a form of mercury poisoning, caused specifically by thimerosal in childhood vaccines. Those claims have been discredited. Still, misinformation and fear generated by false claims about associations (3) between autism and vaccines had a significant impact on individuals' perceptions about vaccine safety. (4) for instance, most individuals in countries where vaccination is widespread have never personally experienced the vaccine-preventable disease. Thus, the focus of concern for some people shifted from the negative effects of the vaccine-preventable disease to the possible negative effects of the vaccines (5)_____.

Q25. Answer: (a) themselves

The correct answer is: themselves.

Key Points

• Let's look at the usage of the given reflexive pronouns.

• A reflexive pronoun is a pronoun used as an object that refers to the same person or thing as the subject.

• 'Themselves' is used as the object of a verb or preposition to refer to a group of people or things previously mentioned as the subject of the clause.

• 'Yourself' is used to refer to the person being addressed as the object of a verb or preposition when they are also the subject of the clause.

• 'Ourselves' is used as the object of a verb or preposition when this is the same as the subject of the clause and the subject is the speaker and one or more other people considered together.

• 'Itself' is used as the object of a verb or preposition to refer to a thing or animal previously mentioned as the subject of the clause.

• Since 'themselves' is an empathetic pronoun, it has the same connotations as "vaccines". "themselves" refer to the "vaccines" in this context.

• So, as per the usage of the given pronouns "themselves" is the most appropriate option.

Therefore, the correct answer is option 1.

Complete passage: Claims have been made that vaccines are responsible for certain (1) adverse health conditions, particularly autism, speech disorders, and inflammatory bowel disease. Some of those claims focused on thimerosal, a mercury-containing compound used as a preservative in vaccines. Some people believed that autism (2) was a form of mercury poisoning, caused specifically by thimerosal in childhood vaccines. Those claims have been discredited. Still, misinformation and fear generated by false claims about associations (3) between autism and vaccines had a significant impact on individuals' perceptions about vaccine safety. (4) for instance*, most individuals in countries where vaccination is widespread have never personally experienced the vaccine-preventable disease. Thus, the focus of concern for some people shifted from the negative effects of the vaccine-preventable disease to the possible negative effects of the vaccines* (5) themselves.

Q26. Answer: (d) NFXHS

Here, the alphabets and their positions are shown as below:

The logic here is: Each word's first and last letters interchange their position and add 1 to the 2nd letter, 2 to the 3rd letter, 3 to the 3rd letter to get the final answer.

For the word POINT : TPKQP,

For the word BONES : SPPHB,

Similarly, for the word SEVEN:

Hence, the option 'NFXHS' is related to the word SEVEN,

Confusion Point: Keep in mind the positions of all the letters.

Q27. Answer: (c) 3025

Here, we need to find the pattern used to get the missing numbers.

The logic here is: Each odd terms are added with odd numbers to get the next consecutive numbers and each even terms are multiplied with next odd number to get the next consecutive number in the given series.

So, we have:

$33 = 11 \times 3$

$38 = 33 + 5$

$266 = 38 \times 7$

275 = 266 + 9

Thus, the missing number we will get, 275 × 11 = 3025

Hence, the correct answer is 3025.

Q28. Answer: (b) WLLOY

Here, the alphabets and their positions are shown as below:

The corresponding of alphabets are:

The logic here is:

First we need to start writing the given word from right to left and then see the corresponding of each letter is the code language.

For the word FLUTE, reverse is ETULF then it is written as VGFOU:

For the word EXILE, the reverse is ELIXE then it is written as VORCV

Similarly, for the word BLOOD, the reveres is DOOLB then it is written as WLLOY.

Hence, the given word can be written as 'WLLOY'.

Q29. Answer: (b) –, =, ×, ×

Here, we will interchange the signs to get the balance equation.

Given: 115 * 25 * 15 * 2 * 3

First we will check options one by one.

1) –, +, =, ×

=> 115 - 25 + 15 = 2 × 3

Applying BODMAS rule, we will get,

=> 115 - 25 + 15 = 6

=> 105 = 6, which is not possible. This option is eliminated.

2) –, =, ×, ×

=> 115 - 25 = 15 × 2 × 3

Applying BODMAS rule, we will get,

=> 115 - 25 = 90

=> 90 = 90, which is possible. This option is true.

3) =, +, +, ×

=> 115 = 25 + 15 + 2 × 3

Applying BODMAS rule, we will get,

=> 115 = 25 + 15 + 6

=> 115 = 46, which is not possible. This option is eliminated.

4) =, ×, ×, ×

=> 115 = 25 × 15 × 2 × 3

Applying BODMAS rule, we will get,

=> 115 = 2250, which is not possible. This option is eliminated.

Hence, the correct option is 2.

Q30. Answer: (a) Jeet

Here, we have some information given and using that, we need to find out the answer.

According to the given information:

1) Pari has scored more than Kirti but less than Siya:

=> Siya > Pari > Kirti => Kirti < Pari < Siya

2) Deepika has scored less than Preeti but more than Amita.

=> Amita < Deepika < Preeti

3) Kirti has scored more than Preeti.

=> Preeti < Kirti

4) Siya is not the highest scorer: This means Jeet is the highest scorer.

=> Siya < Jeet

Next, we will combine all the statements and we will get,

=> Amita < Deepika < Preeti < Kirti < Pari < Siya < Jeet

Thus, Jeet and Siya have scored more than Pari. But in option there is only Jeet.

So, Jeet scored more than Pari.

Hence, the correct answer is Jeet.

Q31. Answer: (a) 48

Here, we need to find the pattern to get the missing number.

The logic is: The 2nd term of first row is multiplied by 4 to get the 3rd term. Then the 2nd term of second row is multiplied by 3 to get the 3rd term.

Logic: Second Number x 4 = Third Number

In 1st row: 16, 12, 48 → 12 × 4 = 48

Logic: Second Number x 3 = Third Number

In 2nd row: 9, 8, 24 → 8 × 3 = 24

Logic: Second Number x 2 = Third Number

In 3rd row: 4, 24, ? → 24 × 2 = 48

Hence, the missing number is 48.

Q32. Answer: (c) 63

The logic followed here is:

Logic: (3rd number - 1st number - 1) ÷ 4 = 2nd number.

Now,

First row- 14, 4, 31

→ (31 - 14 - 1) ÷ 4

→ 16 ÷ 4 = 4

Second row- 38, 10, 79

→ (79 - 38 - 1) ÷ 4

→ 40 ÷ 4 = 10.

Third row- 30, 8, ?

→ (63 - 30 - 1) ÷ 4

→ 32 ÷ 4 = 8.

Hence, the correct answer is "Option 3".

Q33. Answer: (c) =, ×, +, ÷, −, +

Here, we are given some signs in the options and we need to check the correct option.

Given: 54 * 14 * 5 * 72 * 18 * 31 * 11

First, we will check the options one by one.

1) =, ×, −, ÷, ×, +

=> 54 = 14 × 5 - 72 ÷ 18 × 31 + 11

Applying BODMAS rule, we will get,

=> 54 = 14 × 5 - 4 × 31 + 11

=> 54 = 70 - 124 + 11

=> 54 = -43, which is not possible. This option is true.

2) +, −, =, ×, −, ×

=> 54 + 14 - 5 = 72 × 18 - 31 × 11

Applying BODMAS rule, we will get,

=> 54 + 14 - 5 = 1296 - 341

=> 63 = 955, which is possible. This option is true.

3) =, ×, +, ÷, −, +

=> 54 = 14 × 5 + 72 ÷ 18 - 31 + 11

Applying BODMAS rule, we will get,

=> 54 = 14 × 5 + 4 - 31 + 11

=> 54 = 70 + 4 - 31 + 11

=> 54 = 54, which is possible. This option is true.

4) -, +, =, ×, ÷, -

=> 54 - 14 + 5 = 72 × 18 ÷ 31 - 11

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Applying BODMAS rule, we will get,

=> 54 - 14 + 5 = 72 × 0.5 - 11

=> 54 - 14 + 5 = 36 - 11

=> 45 = 25, which is not possible. This option is not true.

Hence, the correct option is 3.

Q34. Answer: (a) (16, 8, 128)

The logic followed here is:

Logic: (1st number - 2nd number) × 1st number = 3rd number.

Now,

For, (15, 5, 150)

→ (15 - 5) × 15

=> 10 × 15 = 150.

For, (7, 5, 14)

→ (7 - 5) × 7

=> 2 × 7 = 14.

Now, check the options:

Option 1: (16, 8, 128)

→ (16 - 8) × 16

=> 8 × 16 = 128.

Option 2: (12, 6, 40)

→ (12 - 6) × 12

=> 6 × 12 = 72 ≠ 40.

Option 3: (11, 8, 37)

→ (11 - 8) × 11

=> 3 × 11 = 33 ≠ 37.

Option 4: (14, 7, 108)

→ (14 - 7) × 14

=> 7 × 14 = 98 ≠ 108.

Hence, the correct answer is "Option 1".

Q35. Answer: (a) Only conclusion I follows

Here, we have some statements and we need find out if the given conclusion is true or not.

First, we will see the statements as below:

1) All shoes are boots:

2) All boots are heels:

3) Some slippers are shoes:

Next, we will combine all the three statements and we will get the venn diagram as below:

Thus, from this above diagram we will see the conclusions as below:

1) All shoes are heels: Since, combining statement 1 and 2, we will get this conclusion. This is true.

2) No slipper is a boot: Since, some slippers are shoes and all shoes are boots. Then some slippers are boot and so this is not true.

3) All shoes are slippers: We are given some slippers are shoes and so some shoes can be slippers but not all. This is not true.

Hence, from the above statements, only conclusion 1 follows.

Q36. Answer: (a) 76

Here, we need to find the pattern and get the missing number.

The logic here follows is as:

11 × 2 = 22,

71 × 6 = 426

Thus, the pattern is each odd term is multiplied by multiple of 2 to get the answer.

So, 19 × 4 = 76

Hence, the correct answer is 76.

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Q37. Answer: (c) 48 - 165

Here, we need to find the pattern and get the missing number.

The logic here is: (1st number × 3) + (1st number ÷ 3) = 2nd number.

1) 93 × 3 + 31 = 310,

2) 54 × 3 + 18 = 180

3) 48 × 3 + 16 = 160 ≠ 165

4) 33 × 3 + 11 = 110

Thus, the pattern is: Each 1st is multiplied by 3 and then 2nd term first two digits are added to the answer to get the final answer.

Hence, the correct option is 48 - 165

Alternate MethodLogic: (1st number ÷ 3) × 10 = 2nd number.

1) (93 ÷ 3) × 10 → 31 × 10 = 310,

2) (54 ÷ 3) × 10 → 18 × 10 = 180,

3) (48 ÷ 3) × 10 → 16 × 10 = 160 ≠ 165

4) (33 ÷ 3) × 10 → 11 × 10 = 110.

Q38. Answer: (c) [figure]

The figure is given below:

The shaded portion is embedded in the figure.

Hence, 'option 3' is the correct answer.

Q39. Answer: (a) [figure]

Here, we have a paper which is folded three times and then cut it out to get some design on it.

First, we will open the 1st fold and see as below:

So, we can see that we will get the mirror image of 1st part in the 2nd part.

Next, we will open the last part and see, we will get the water image of the 1st half part on to the 2nd half part.

Hence, the correct answer is option 1.

Q40. Answer: (a) CBA

Here, the alphabets and their positions are shown as below:

The logic follows here is as: The last letter of each term is subtracted by 2, to get the first letter of the next term.

Hence, the missing place will have 'CBA' as the correct answer.

Q41. Answer: (d) JLHJMOFH

Here, the alphabets and their positions are shown as below:

The logic follows here is:

Each alphabet is coded as two letters +1 and -1 of its positional value.

Similarly,

Hence the correct answer is option 4)

Q42. Answer: (b) [figure]

Here, we are given the word and we need to find the mirror image of it.

First keep in mind that, in mirror image the first letter will be the last letter of the given word. Also, the size of the letters will not change i.e. capital letters will appear capital only.

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

Detailed Explanation :-

• The line XY is the mirror.

• The word "

" ends with "

". So, the mirror image will start with "

" → Option 4 is eliminated.

• The last letter "

" is used. So, the first letter of the mirror image will be "

"→ Options 1 and 3 are eliminated.

Hence, 'Option 2' is the correct answer.

Additional Information

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

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

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

Q43. Answer: (b) LYZJ

Here, the alphabets and their positions are shown as below:

The logic follows here is:

Hence, the correct answer is 'LYZJ'.

Confusion Point: Keep in mind the positions of all the letters.

Q44. Answer: (d) 2

Here we are given two dices and faces 1 and 3 are common in both.

So, we have:

So, we will rotate the 2nd dice in such a way, that it will have the same positions of the common faces.

Thus, the face opposite to 4 will be 2.

Hence, the face opposite to number 4 will be number 2.

Q45. Answer: (a) Friday

Here, we have given a day and need to find the next day of the given date.

The year 2000 is a leap day. So, it has 2 odd days.

So, 19th Sep of 1999 was Sunday and so 19th Sep of 2000 will be Tuesday.

As we know, Sep has 30 days. So, 30 - 19 = 11 days.

Then, Oct = 31 days, Nov = 30 days and Dec = 31 days.

Total = 11 + 31 + 30 + 31 = 103 days

Next, for 19th Jan 2001 = 19 days.

Thus, the total = 103 + 19 = 122 days.

So, 122 ÷ 7 = 17 weeks = 3 odd days.

This means Tuesday + 3 days = Friday

So, the Friday is the day of the week on 19th January 2001.

Hence, the correct option is 1.

Confusion Point: Keep in mind what to you mean by number of odd days, leap year and ordinary years.

Q46. Answer: (d) [figure]

Here, we have an image in the square and it is rotating.

Given image is:

As we can see that each image is moving at an angle of 90 degree in clockwise direction.

From the images, we can see that, the arrow is changing its place and the image in the center is also changing.

So, we can say that the arrow will be facing upwards at the right side on the top. This means we will get the 1st image as out answer.

Thus, we get:

Hence, the correct answer is option 4.

Q47. Answer: (c) –, +, ÷, ×, =

Here, we will apply the options one by one to check which option gives the correct equation.

Given: 16 * 8 * 10 * 2 * 4 * 28

1) ×, ÷, –, +, =

=> 16 × 8 ÷ 10 - 2 + 4 = 28

Applying BODMAS rule, we will get,

=> 16 × 0.8 - 2 + 4 = 28

=> 12.8 - 2 + 4 = 28

=> 14.8 ≠ 28, this option is eliminated.

2) ÷, ×, +, –, =

=> 16 ÷ 8 × 10 + 2 - 4 = 28

Applying BODMAS rule, we will get,
=> 2 × 10 + 2 - 4 = 28
=> 20 + 2 - 4 = 28
=> 18 ≠ 28, this option is eliminated
3) –, +, ÷, ×, =
=> 16 - 8 + 10 ÷ 2 × 4 = 28
Applying BODMAS rule, we will get,
=> 16 - 8 + 5 × 4 = 28
=> 16 - 8 + 20 = 28
=> 28 = 28, this option is true.
4) ÷, ×, –, +, =
=> 16 ÷ 8 × 10 - 2 + 4 = 28
Applying BODMAS rule, we will get,
=> 2 × 10 - 2 + 4 = 28
=> 20 - 2 + 4 = 28
=> 18 ≠ 28, this option is eliminated
Hence, the correct option is 3.
Confusion Point: Keep in mind to follow BODMAS rule while solving these type of problem.

Q48. Answer: (c) [figure]

The figure is given below:
The shaded portion is embedded in the figure.
Hence, 'option 3' is the correct answer.

Q49. Answer: (a) 4, 2, 1, 5, 3

Here, we need to arrange the given options in alphabetical order:
So, the arrangement is done as shown below:
4. Analogies
2. Analyze
1. Ancestors
5. Android
3. Antibiotic
Hence, the correct answer is '4, 2, 1, 5, 3'.

Q50. Answer: (d) 6 and 9

Here, we need to interchange the numbers to make the given equation correct.
Given: (2)3 ÷ 4 + (72 ÷ 6) × 9 – (21 × 3) + (15 × 7) = 92
First we will apply each options one by one as shown below:
1) 6 and 3
=> (2)3 ÷ 4 + (72 ÷ 3) × 9 – (21 × 6) + (15 × 7) = 92
Applying BODMAS rule, we will get,
=> 8 ÷ 4 + 24 × 9 – 126 + 105 = 92
=> 2 + 216 - 126 + 105 = 92
=> 197 = 92, is not possible. This option is not true.
2) 3 and 7
=> (2)3 ÷ 4 + (72 ÷ 6) × 9 – (21 × 7) + (15 × 3) = 92
Applying BODMAS rule, we will get,
=> 8 ÷ 4 + 12 × 9 – 147 + 45 = 92
=> 2 + 108 - 147 + 45 = 92
=> 8 = 92, is not possible. This option is not true.
3) 3 and 9
=> (2)3 ÷ 4 + (72 ÷ 6) × 3 – (21 × 9) + (15 × 7) = 92
Applying BODMAS rule, we will get,

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=> 8 ÷ 4 + 12 × 3 – 189 + 105 = 92
=> 2 + 36 - 189 + 105 = 92
=> -46 = 92, is not possible. This option is not true.
4) 6 and 9
=> (2)3 ÷ 4 + (72 ÷ 9) × 6 – (21 × 3) + (15 × 7) = 92
Applying BODMAS rule, we will get,
=> 8 ÷ 4 + 8 × 6 – 63 + 105 = 92
=> 2 + 48 - 63 + 105 = 92
=> 92 = 92, is possible. This option is true.
Hence, the correct answer is '6 and 9'.
Confusion Point: Keep in mind to apply BODMAS rule, while solving these type of problems.

Q51. Answer: (d) Rs. 1,500

Given:
Discount percentage is 35%
Selling price of the toy is 975Rs
Calculation:
Let the marked price be M
The selling price is 35% less than marked price
Which implies selling price is 100-35=65% of the marked price
= 65/100× M=975
Solving this we get M as 1500Rs.
The marked price of the toy is Rs. 1500

Q52. Answer: (d) 56

Theory:
The third proportional means the three numbers are in same proportion to each
Let three numbers a, b, c
Then a:b::b:c
Calculation:
a/b=b/c
Thus we can write c=(b^2)/a
Here a=14, b=28
c= =(28^2)/14=56
Therefore The third proportional is 56

Q53. Answer: (b) (x + 2)2 - 2(x + 2) + 3

Given:
$x^2 + 2x + 3$
x = –2
Calculation:
x = – 2
=> x + 2 = 0
Now we have to expand only options 2 and 3,
As in options 1 and 4, the first term is (x - 2)
Expanding option 2,
=> (x + 2)2 – 2(x + 2) + 3
=> $x^2 + 4x + 4 - 2x - 4 + 3$
=> $x^2 + 2x + 3$
Hence it gives the given expression,
Therefore Option 2 is correct.
Additional Information As option 2 has given the desired result,
We don't have to go for 3^(rd) option.

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Mistake Points

x = – 2

=> x + 2 = 0

If we consider option 3, substituting x + 2 instead of x,

=> (x + 2)2 + 2(x + 2) + 3

=> x2 + 4x + 4 + 2x + 4 + 3

=> x2 + 6x + 11

Hence it is not equal to the x2 + 2x + 3 (given expression)

Therefore Option 3 can not be the answer.

Q54. Answer: (d) 40% profit

Shortcut Trick

Ratio of MP to CP = 70 ÷ 42 = 5/3

Ratio of SP to MP = 21 ÷ 25

Multiply both ratios to find SP/CP: (SP/MP) × (MP/CP) = (21/25) × (5/3) = 7/5

Profit % = [(SP − CP) / CP] × 100 = [(7 − 5) / 5] × 100 = 40%

Therefore The correct answer is 40%.

Alternate Method

Given:

42 × Marked Price (MP) = 70 × Cost Price (CP)

25 × Selling Price (SP) = 21 × Marked Price (MP)

Formula Used:

Profit = SP − CP

Profit % = (Profit / CP) × 100

CP = 15

SP = 21

MP = 25

Profit = +6

Markup

Discount

Calculations:

=> MP / CP = 70 / 42 = 5 / 3

=> SP / MP = 21 / 25

=> To equalise the ratio value of MP in both conditions, multiply the first ratio by 5.

=> MP / CP = 25 / 15

=> By combining the ratios, we establish CP = 15, MP = 25, and SP = 21

=> Profit = SP − CP = 21 − 15 = 6

=> Profit % = (6 / 15) × 100 = 40%

Therefore The correct answer is 40%.

Additional Information

Marked Price and Discount

Discount is fundamentally derived from the Marked Price. Formula: SP = MP − (Discount% × MP / 100).

Successive Discounts

If two successive discounts of d1% and d2% are applied, the overall equivalent discount is computed as [d1 + d2 − (d1 × d2) / 100]%.

Relation between CP and MP

A rapid formula to interlink the direct ratio between Cost Price and Marked Price is: CP / MP = (100 − Discount%) / (100 + Profit%).

Q55. Answer: (c) Zoology and Education

Given:

The following pie chart describes the number distribution of research scholars department-wise in a university.

Calculations:

According to the question,
Physics= 14%
Mathematics= 22%
Zoology = 22%
Hindi = 12%
Chemistry= 12%
Education= 17%
Now, Physics+ Mathematics = 14 + 22 = 36 %
Only, Zoology + Education= 22 + 18 = 40 % exceeds the combination of Physics and Mathematics.
Hence, The Required answer is zoology and education.

Q56. Answer: (a) 1815/19 km/h

Shortcut Trick
When equal distances are covered at speeds a and b, the average speed is given by (2 × a × b) ÷ (a + b).
=> Average Speed = (2 × 21 × 17) ÷ (21 + 17)
=> Average Speed = 714 ÷ 38
=> Average Speed = 357 ÷ 19
=> Average Speed = 18^(15)/19 km/h
Therefore The correct answer is 18^(15)/19 km/h.
Alternate Method
Given:
Speed during onward journey (S1) = 21 km/h
Speed during return journey (S2) = 17 km/h
Let the one-way distance between the two points be d km.
Point A
Point B
Distance = d
Onward Speed = 21 km/h
Return Speed = 17 km/h
Formula Used:
Average Speed = Total Distance ÷ Total Time
Time = Distance ÷ Speed
Calculations:
=> Total Distance = d + d = 2d
=> Time taken for onward journey = d ÷ 21
=> Time taken for return journey = d ÷ 17
=> Total Time = (d ÷ 21) + (d ÷ 17)
=> Total Time = (17d + 21d) ÷ (21 × 17)
=> Total Time = 38d ÷ 357
=> Average Speed = 2d ÷ (38d ÷ 357)
=> Average Speed = (2d × 357) ÷ 38d
=> Average Speed = 714 ÷ 38
=> Average Speed = 357 ÷ 19
=> Average Speed = 18^(15)/19 km/h
Therefore The correct answer is 18^(15)/19 km/h.
Additional Information
Average Speed for Three Equal Distances
When three equal distances are covered at speeds x, y, and z, the average speed formula is: (3 × x × y × z) ÷ (xy + yz + zx).
Average Speed for Equal Time Intervals
When different distances are covered at varying speeds for equal amounts of time, the average speed is simply the arithmetic mean of all the speeds: (S1 + S2 + ... + S_n) ÷ n.
Relative Speed Concept

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When two objects move in opposite directions at speeds x and y, their relative speed is (x + y). When they move in the same direction, the relative speed is (x − y).

Q57. Answer: (d) 106 kg

Shortcut Trick

Net change in total weight = Total members × Increase in average

Net change = 8 × 2 = 16 kg

Since the average increases, the new man is heavier than the replaced man.

Weight of new man = Weight of replaced man + Net change

Weight of new man = 90 + 16 = 106 kg

Therefore The correct answer is 106 kg.

Alternate Method

Given:

Total number of men = 8

Increase in average weight = 2 kg

Weight of replaced man = 90 kg

Old Man (90 kg)

• 16 kg

8 men × 2 kg

New Man = 106 kg

Formula Used:

Average = Sum of observations ÷ Number of observations

Calculations:

=> Let original average weight of 8 men be A.

=> Total original weight = 8 × A = 8A

=> After replacing, the new average becomes (A + 2).

=> Total new weight = 8 × (A + 2) = 8A + 16

=> Increase in total weight = (8A + 16) − 8A = 16 kg

=> This 16 kg increase is strictly due to the weight difference between the new and replaced man.

=> Weight of new man = Weight of replaced man + Increase in total weight

=> Weight of new man = 90 + 16 = 106 kg

Therefore The correct answer is 106 kg.

Additional Information

Replacement in Averages

When one member is replaced, the weight of the new member can be calculated directly:

New Value = Old Value + (Total Members × Increase in Average)

New Value = Old Value − (Total Members × Decrease in Average)

Addition of a New Member

When a new member joins the group:

New Member = Old Average + (Total Members after addition × Increase in Average)

Removal of a Member

When a member leaves the group:

Removed Member = Old Average − (Remaining Members × Increase in Average)

Q58. Answer: (a) 27,951

Given:

percentage change in population is 10%

present population is 21000

formula used:

Population after n years = $P=p(1+r/100)^n$

where P is the population to be found

p is the population now

r is the rate of increase

n is the number of years

Calculation

$P=21000(1+10/100)^3$

$\Rightarrow P = 21,000 \times (11/10)^3$

$\Rightarrow P = 21,000 \times 11/10 \times 11/10 \times 11/10$

$\Rightarrow P = 21 \times 11 \times 11 \times 11 = 27,951$

The population 3 years from now is 27,951.

Shortcut Trick=> 10% = (+1/10)

Present Population	Population after 3 yrs.
10	11
10	11
10	11
1000	1331

=> 1000x = 21000

=> x = 21

Therefore 1331x = 1331 × 21 = 27,951.

Q59. Answer: (b) 37.5 km/h

Given:

Average speed is 30km/h

Speed which covers 1st 50 km is 25km/h

Formula used:

average speed = $(2\times x \times y)/(x+y)$

where x and y are speeds

Calculation:

x = 25km/h

substituting the equation

average speed = $30 = (2\times 25 \times y)/(25+y)$

solving we get y = 37.5km/h

The speed for the next 50km will be 37.5km/hr.

Q60. Answer: (b) 3,06,045

Given:

Four number are given.

Formula used:

If the sum of the digits of a number are divisible by three, then the number is divisible by 3.

If the digit at one's place of a number is either 5 or 0, then the number is divisible by 5.

Calculation:

The factors of 15 are 3 and 5. Therefore, for a given number to be divisible by 15, it must be divisible by both, 3 and 5.

Since the last digit of all the given options is 5, all of them are divisible by 5.

To check which of the numbers is divisible by 3.

Option 1: 1+6+5+4+8+5 = 28, which is not divisible by 3.

Option 2: 3+0+6+0+4+5 = 18, which is divisible by 3.

Option 3: 2+1+2+6+9+5 = 25, which is not divisible by 3.

Option 4: 2+9+5+1+4+5 = 2, which is not divisible by 3.

Therefore, the number which is divisible by 15 is 3,06,045.

Q61. Answer: (d) 3 cm, 5 cm and 1 cm

Given:

Four sets of three side lengths are given.

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Formula used:

For a given triangle, the sum of the lengths of any two sides must be greater than the third side.

Calculation:

Option 1: 12 + 9 > 15, 12 +15 > 9, 15 + 9 > 12. Therefore, the given three lengths are the sides of a triangle.

Option 2: 20 + 20 > 20. Therefore, the given three lengths are the sides of a triangle.

Option 3: 3 + 5 > 4, 3 + 4 > 5, 5 + 4 > 4. Therefore, the given three lengths are the sides of a triangle.

Option 4: 3 + 5 > 1, 5 +1 > 3, but 1 + 3 < 5. Therefore, the given three lengths are not the sides of a triangle.

Therefore, 3 cm, 5 cm and 1 cm are not sides of a triangle.

Q62. Answer: (d) 62/3 days

Given:

Arun can finish a work in 12 days and Shama can finish in 15 days.

Formula used:

Time taken for A and B together, to do a work is xy/(x+y), where

x is the time taken by A alone, and

y is the time taken by B alone.

Calculation:

Here, x = 12 days and y = 15 days.

Therefore, time taken to finish the work, if Arun and Shama work together is (12 × 15)/(12+15) = (12 × 15)/27 =20/3 =6 2/3 days.

Q63. Answer: (b) 1/4

Shortcut Trick

Directly apply the Product-to-Sum formula: cos A cos B = 1/2 [cos(A + B) + cos(A − B)]

Here, A = 75° and B = 15°.

Value = 1/2 × [cos(75° + 15°) + cos(75° − 15°)] = 1/2 × [cos 90° + cos 60°]

Since cos 90° = 0 and cos 60° = 1/2, the result is 1/2 × (0 + 1/2) = 1/4.

Therefore The correct answer is 1/4.

Alternate Method

Given: Angles A = 75° and B = 15°. Formula: 2cosA cosB = cos(A + B) + cos(A − B).

Calculations:

=> cos 75° cos 15° = 1/2 × [2 cos 75° cos 15°]

=> Applying the identity: cos 75° cos 15° = 1/2 × [cos(75° + 15°) + cos(75° − 15°)]

=> cos 75° cos 15° = 1/2 × [cos 90° + cos 60°]

=> Substitute standard values: cos 90° = 0 and cos 60° = 1/2

=> cos 75° cos 15° = 1/2 × [0 + 1/2]

=> cos 75° cos 15° = 1/2 × 1/2 = 1/4

Therefore The correct answer is 1/4.

Additional Information

Other Product-to-Sum Identities

2 sin A sin B = cos(A − B) − cos(A + B)

Mixed Sine and Cosine Products

2 sin A cos B = sin(A + B) + sin(A − B)

Standard Values for Reference

For standard trigonometric calculations: sin 30° = 1/2, cos 30° = √3/2, sin 60° = √3/2, and sin 90° = 1.

Q64. Answer: (b) 76

Given:

x^4 + (1/(x^4)) = 322

Formula used:

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

$a^3-b^3=(a-b)(a^2+b^2+ab)$

Calculation:

Using $a^3-b^3=(a-b)(a^2+b^2+ab)$,

$x^3 - (1/(x^3))=(x-1/x)(x^2+1/(x^2) +1)$ ....(1)

Now, using $(a+b)^2=a^2+b^2+2ab$,

x^4 + (1/(x^4)) = $(x^2+1/(x^2))^2$ -2=322

Therefore $(x^2+1/(x^2))^2$ =324

Therefore $(x^2+1/(x^2))$=18 .... (2)

Again, using $(a+b)^2=a^2+b^2+2ab$,

$x^2 + (1/(x^2)) = (x-1/x)^2$ +2=18

Therefore $(x-1/x)^2$ =16

Therefore (x-1/x)=4 ....(3)

Substituting (2), (3) in (1),

$x^3 - (1/(x^3))=4 \times (18+1) = 76$

Therefore If x^4 + (1/(x^4)) = 322, then what is the value of $x^3 - (1/(x^3))= 76$.

Q65. Answer: (b) 10/7

Given:

36/7 - {51/7 - (23/7 - 35/7 - 4)}

Calculation:

=> 36/7 - {51/7 - (23/7 - 35/7 - 4)}=36/7 - {51/7 - (23/7 - 26/7 - 4)}

=> 36/7 - {51/7 - (23/7 - (-2)/7)}

=> 36/7 - {51/7 - (17/7 + 2/7)}=36/7 - {51/7 - 19/7}

=> 27/7-(36-19)/7=27/7-17/7

=> (27-17)/7=10/7

Hence, the simplified value of the expression is 10/7

Q66. Answer: (b) 1

Given:

a + b = 2c

Formula used:

x - y = -(y - x)

Calculation:

If a + b = 2c, then a - c = c - b.

Then, a/(a - c) + c/(b - c) = a/(c - b) + c/(b - c) = -a/(b- c) + c/(b - c)

Therefore a/(a - c) + c/(b - c) = (-a+c)/(b - c) = (b - c)/(b - c) = 1

Therefore If a + b = 2c, then the value of a/(a - c) + c/(b - c) is 1.

Shortcut TrickWe can use Value putting method here.

Keep the value of 'c' = 0

So,

=> a + b = 0

Therefore a = -b

then, the question being asked shrinks down to → a/a = 1.

Q67. Answer: (a) 768 cm^3

Given:

The length of a cuboid is twice more than its breadth and its breadth is 8 cm, which is twice its height.

Formula used:

Volume of cuboid = length × breadth × height

Calculation:

If breadth is 8cm, then the height is 8/2=4cm.

If length is thrice its breadth, the length is 8 × 3 = 24cm.

Therefore The volume of the cuboid is $24 \times 8 \times 4 = 768cm^3$.

Q68. Answer: (b) 1990

Given:

A graph representing the data for the percentage of the population affected by flue and cold is given.

Formula used:

The shortest bar is the minimum value and the longest bar is the maximum value.

Calculation:

According to the given graph, the year which has the shortest blue bar is 1990.

Therefore The year in which the percentage of the population affected by flue is the minimum is 1990.

Mistake PointsRead the graph carefully. Value in the graph indicates the percentage of people infected with flu and cold.

We have to calculate the percentage out of the total people(100%) which is already given in the graph.

Q69. Answer: (d) Rs. 7,000

Formula used:

Discounted price = (100 - discount)/100 × marked price

Calculation:

Let the marked price be x.

The amount paid in cash with 24% discount is 74% of 40% of x,

=> 0.76 × 0.4 × x.

The amount paid with credit card with charge of 1.5% is 101.5% of 60% of x

=> 1.015 × 0.6 × x.

Then, the total amount paid is

=> 0.76 × 0.4 × x + 1.015 × 0.6 × x = 6391.

Solving for x,

0.304x+0.609x=6391

x=6391/0.913 = 7000

Therefore The marked price of the item is Rs. 7000.

Q70. Answer: (b) 240 seconds

Given:

Ali and Badal start from the same position and at the same time in a 1200 m circular race, with speeds of 27 km/h and 45 km/h, respectively.

Calculations:

Relative speed of both in same direction = S2-S1=45 - 27 =18 km/h = 18 × (5/18) = 5 m/s.

So,

Time taken by them to meet for the first time on the track while running in same direction = Length of track / relative speed in same direction = 1200/5= 240 seconds

Hence, The Required time is 240 seconds.

Q71. Answer: (a) 1,54,410

Shortcut Trick

Let Total Income be 100 units.

After 15% rent, Remaining = 85 units.

Household expenses = 60% of 85 = 51 units.

Savings = 85 − 51 = 34 units.

34 units = Rs. 52,500 => 1 unit = 52,500 ÷ 34.

100 units = (52,500 ÷ 34) × 100 ≈ Rs. 1,54,411.76.

Therefore The correct answer is Rs. 1,54,410.

Alternate Method

Given:

House Rent = 15% of Income

Household Expenses = 60% of (Income − Rent)

Savings = Rs. 52,500

Calculations:

=> Let Total Income be x.
=> Remaining after rent = x × (100 − 15)/100 = 0.85x
=> Savings = 0.85x × (100 − 60)/100 = 0.85x × 0.40
=> 0.34x = 52,500
=> x = 52,500 ÷ 0.34
=> x = 1,54,411.764...
=> Rounding off to the nearest tens: Rs. 1,54,410
Therefore The correct answer is Rs. 1,54,410.
Additional Information
Successive Percentage Remainder
When spending on the 'rest' or 'remaining', the final value is calculated as: Final = Initial × (1 − r1/100) × (1 − r2/100).
Rounding Off Rules
To round to the nearest tens, look at the units digit. If it is 5 or more, round up; if less than 5, round down to the nearest multiple of 10.

Q72. Answer: (d) 1152 m³

Given:
A cuboid is 16 m long, 12 m broad and 6 m high.
Formula used:
Volume of a cuboid = length × breadth × height
Calculation:
Volume of the cuboid = 16 × 12 × 6 = 1152m³
Therefore The volume of the given cuboid is 1152m3

Q73. Answer: (c) 36 cm2

Given:
The perimeter of a triangle is 36 cm.
The length of two sides is 17 cm and 9 cm.
Formula used:
Area of triangle = √(s(s - a) (s - b) (s - c))
where '2s' is the perimeter of the triangle and a, b, c are the triangle's three sides.
Perimeter of a triangle is 2s = a + b + c
Calculation:
The perimeter is 36 cm and the length of two sides is 17 cm and 9 cm, then the length of the third side is 36 - (17 + 9) = 10 cm.
This means that s = 18cm, a = 17cm, b = 9cm, c = 10cm
Therefore The area of the given triangle is √(18(18-17)(18-9)(18-10))=36cm²

Q74. Answer: (c) Copper

Given:
The table for the production (in tonnes) of 4 minerals (Aluminium, Copper, Lead, Nickle) during 1990 to 1994 is given.
Formula used:
When the value of a data keep on increasing with the order of the observations, the data is said to be increasing successively.
Calculation:
From the table is observed that only the production of copper was increasing successive every year between 1990-1994.
Therefore The mineral which has a successive increase over the given years is copper.

Q75. Answer: (b) Rs. 8,000

Given:
Madhuri spends 80% of her salary and Sushma spends 95% of her salary. But the savings of both are equal.
Formula used:
Savings = total income - expenses
Calculation:
Let Madhuri's income be 'x' and Sushma's income be 'y'.

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Therefore, x + y = 10000 ...(1)

And, 0.2x = 0.05y

This means that x=5y/20.

Substituting in (1),

5y/20+y=10000

25y/20=10000

y=(20× 10000)/25=8000

Therefore The income of Sushma is Rs. 8000.

Q76. Answer: (c) Ghatam

The correct answer is Ghatam.

Key Points

• Ghatam ,is the percussion instrument which is all about used all round the India.

• It is a part of the Punjabi folk dance, which plays the major significance in their traditions and the customs. It is among the most ancient percussion.

Additional Information

• Tabla

• Tabla, is a most significant instrument of the Indian subcontinent.

• It is among the classical instrument which is played solo.

• It is a pair of twins hand drums.

• Sarangi

• Sarangi, is also known by the name Saran.

• It is most prominent in the southern Asian regions.

• It has a major significance in the norther regions of the world.

• Sitar

• Sitar, is a plucked stringed instrument.

• It has its importance in the Hindustani Music all over the Indian preferences.

• It is mostly invented in the medieval arena, Which is practiced by most talented players all around the world.

Q77. Answer: (b) My Life, My Music

The correct answer is My Life, My Music.

Key Points

• Pandit Ravi Shankar was a sitarist and composer from India.

• He was a sitar virtuoso who became the world's best-known expert of North Indian classical music in the second half of the twentieth century, influencing numerous artists in India and throughout the world.

• Shankar rose to prominence as the world's most well-known exponent of Hindustani (North Indian) classical music, performing alongside India's most illustrious percussionists and releasing scores of popular recordings.

Additional Information

• My Life, My Music, is an historical and the most interesting biography of the famous musician Pandit Ravi Shankar.

• It contains within it about how the most instrument Sitar is been played by the players.

• Ravi Shankar was one of India's greatest musical virtuosos. He was renowned for his efforts to introduce Indian music to the West and for his influence on American and British popular music

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Q78. Answer: (a) Potenz

The correct answer is Potenz.

Key Points

• Potenz is the known with the English translation as Power, Potency, etc.

• It was been described by the German scholar Potenz.

• It is mainly used for the measure of the concentration of the pH scale and the hydrogen.

Additional Information

• Potential is the english word for the Capacity. It is the necessary abilities or the qualities to be or to do something. In the terms of Chemistry, is the capabilty that a substance hold all within itself.

• Pleural, is mainly for the plueral space or the plueral capacity between the plueral sac that surrounds each lung.

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• Potencial is again which holds its meaning with the capacity to do something. The actual capability a substance hold within itself all around.

Q79. Answer: (c) elected by the members of the Legislative Council

The correct answer is elected by the members of the Legislative council.

Key Points

• The legislative council commonly known as the Vidhan Parishad is the upper house of the state.

• It was established by Article 169. It is a permanent committee chosen from the meets of both houses.

Additional Information

• Chief minister and its cabinet is the major members of the house of the parliament which as per the Chief minister are considered as the major people of the most importance.

• They work for the functioning of the administration and are assigned the work of the different departments.

• Chief minister

• Article 164 says that the Chief Minister shall be appointed by the Governor, though the constitution does not contain any specific procedure for the selection and appointment of the Chief Minister.

• In accordance with the conventions of the parliamentary system of Government, the Governor appoints the leader of the majority party in the state legislative as Chief Minister.

• The chief minister may be a member of any of the two houses of state legislatures.

• Governor of the state is also the vice chancellor of all the government colleges within the state.

• Appointed by the president looks for the functioning of peace and law within the state.

Q80. Answer: (d) Nadhaswaram

The correct answer is Nadhaswaram.

Key Points

• Nadhaswaram is a double reed wind instrument from South India.

• It is used as a traditional classical instrument in Tamilnadu, Andhra Pradesh, Karnataka, and Kerala.

Additional Information

• The ghatam is a percussion instrument used in various repertoires across India.

• It's a variant played in Punjab and known as gharha as it is a part of Punjabi folk traditions.

• Its analogue in Rajasthan is known as the madga and pani mataqa.

• The ghatam is one of the most ancient percussion instruments of India.

• The mridangam is a percussion instrument of ancient origin.

• It is the primary rhythmic accompaniment in a Carnatic music ensemble.

• In Dhrupad, a modified version, the pakhawaj, is the primary percussion instrument.

• A related instrument is the Kendang, played in Maritime Southeast Asia.

• A tabla is a pair of twin hand drums from the Indian subcontinent.

• Since the 18th century, tabla has been the principal percussion instrument in Hindustani classical music, where it may be played solo, as accompaniment with other instruments and vocals, and as a part of larger ensembles.

Q81. Answer: (d) Sangeet Natak Akademi

the correct answer is Sangeet Natak Akademi.

Key Points

• Sangeet Natak Akademi (The National Academy of Music, Dance, and Drama in English) is the national-level academy for performing arts set up by the Government of India.

• Ustad Bismillah Khan Yuva Puraskar (Akademi Award) is an award given by the Sangeet Natak Akademi to outstanding artists under 40 who have demonstrated talent in the fields of music, dance, and Theatre

• Award winners receive a prize of Rs 25000 (US$350) from the chairman of Sangeet Natak Akademi in a special ceremony.

Additional Information

• Vishnu Digambar Paluskar and the Gandharva Mahavidyalaya were established by him in 1901 at Lahore.

• The Bharatiya Vidya Bhavan is a composite institution spreading out into diverse fields of Indian cultural life.

• The Bhavan is not an institution but a movement seeking to reintegrate Indian Culture, by the application of the modern critical apparatus to its ancient heritage.

• National School of Drama it was set up by the Sangeet Natak Akademi as one of its constituent units in 1959.

Q82. Answer: (b) Emotional

The correct answer is Emotional.

Key Points

• Emotional adaptation clustered with positive traits and an outward focus and was negatively associated with negative traits and an inward focus

• Emotional adaptation was conceptually located in close proximity to active and adaptive coping, and furthest away from maladaptive coping.

• They are efficient, coordinated responses that help organisms to reproduce, protect offspring, maintain cooperative alliances, and to avoid physical threats.

Additional Information

• Physiological adaptation refers to the internal organs, tissues, and cells. In this type of adaptation, the cellular features, internal organs, changes in the hormonal level, mood swings, and other features help an organism to survive, adapt and respond to the changes in its environment.

• Behavioral adaptation: something an animal does usually in response to some type of external stimulus in order to survive. Hibernating during winter is an example of a behavioral adaptation.

• Morphological adaptation is a structural change that gives an organism a greater chance of survival in its habitat.

Q83. Answer: (b) Winds of Samsara

The correct answer is Winds of Samsara.

Key Points

• It is also the concept of rebirth and "cyclicality of all life, matter, existence", a fundamental belief of most Indian religions.

• Samsara is sometimes referred to with terms or phrases such as transmigration, karmic cycle, reincarnation or punarjanman, and "cycle of aimless drifting, wandering or mundane existence"

• The liberation from Samsara is called moksha, nirvana, Mukti or kaivalya.

Additional Information

Book Name	Author Name
Karmayoddha Granth	Amit Shah
Relentless	Yashwant Sinha
A Child of Destiny	K Subrahmanyam

• Grammy Awards

• The renowned Grammy Awards, initially named the Gramophone Award, are presented annually in the United States by the National Academy of Recording Arts & Sciences (NARAS) to recognize outstanding achievements in the music industry.

• Established in 1959 to honor performers from the year 1958, the committee chose the name "Grammy" as a homage to Emile Berliner's gramophone, underscoring its connection to the history of music recording.

• The Grammy Awards celebrate artists for their exceptional contributions to the music field, symbolizing a prestigious acknowledgment by the Recording Academy for outstanding work in a given year.

Q84. Answer: (c) Dobereiner’s Law of Triads

The correct answer is Dobereiner’s Law of Triads.

Key Points

• Dobereiner stated in his law of triads that the arithmetic mean of the atomic masses of the first and third element in a triad would be approximately equal to the atomic mass of the second element in that triad.

• He found that the atomic mass of the middle element was approximately equal to the arithmetic mean (average) of the atomic masses of the other two elements of that triad when they are arranged in their increasing order of atomic mass, e.g., Li, Na, K.

• The atomic mass of Li is 7 and K is 39.

• Dobereiner arranged the elements in increasing order of atomic masses. He found that the atomic mass of the middle element was approximately equal to the arithmetic mean (average) of the atomic masses of the other two elements of that triad when they are arranged in their increasing order of atomic mass.

Additional Information

• Moseley's law states that the square root of the frequency of the emitted x-ray is proportional to the atomic number. Importance of Moseley's law: Using this law Moseley arranged K and Ar, Ni and CO in a proper way in Mendeleev's periodic table

• Newlands' Octaves Law if the chemical elements are arranged according to increasing atomic weight, those with similar physical and chemical properties occur after each interval of seven elements.

• Mendeleev's periodic law states that the properties of the elements are a periodic function of their atomic masses." The elements having similar properties appeared in the same group (vertical column)

Q85. Answer: (d) United States of America

The correct answer is United States of America.

Key Points

• The country finished the Games with 113 medals, the most amongst all nations: 39 gold, 41 silver, and 33 bronze. These individual totals were each the highest of the Games, after a final-day tally of three gold medals (women's basketball, women's omnium, and women's volleyball) surpassed China's total of 38 golds.

• Overall, the medal total was slightly lower than five year prior in Rio de Janeiro, where the United States won 46 gold and 121 total medals.

• Total Americans are there in Tokyo 2020 were 613.

• The Olympic Games are an international sports festival, held every four years. The ultimate goals are to cultivate human beings, through sport, and contribute to world peace. Summer Games and Winter Games are held separately.

Additional Information

• Japan won 18 medals at the 2022 Beijing Winter Olympics, greatly surpassing its previous record total of 13 at Pyeongchang in 2018.

• Australia competed at the 2020 Summer Olympics in Tokyo. Originally scheduled to take place from 24 July to 9 August 2020, the Games were postponed to 23 July to 8 August 2021, because of the COVID-19 pandemic.

• China wins its first gold of the Games in a new mixed-gender short-track event. With a flash of a skate, China won its first medal of the Beijing Winter Olympics on Saturday, which was also the first gold medal in a new Olympic event the short-track speedskating mixed-gender team relay.

Q86. Answer: (c) Hans Christian Oersted

The correct answer is Hans Christian Oersted.

Key Points

• Hans Christian Oersted began a new scientific epoch when he discovered that electricity and magnetism are linked.

• He showed by experiment that an electric current flowing through a wire could move a nearby magnet.

• Hans Christian Oersted was a Danish physicist and chemist born on August 14, 1777 – died on Mach 09, 1851.

• Oersted is still known today for Oersted's Law, electric current, electromagnetism, piperine discovery, and finally formulation of metallic aluminum.

Additional Information

• One of the leading figures of early American history, Benjamin Franklin (1706-1790) was a statesman, author, publisher, scientist, inventor, and diplomat. Benjamin Franklin was many things in his lifetime: a printer, a postmaster, an ambassador, an author, a scientist, and a Founding Father. Above all, he was an inventor, creating solutions to common problems, innovating new technology, and even making life a little more musical.

• James Clerk Maxwell is most famous for his theory of electromagnetism, which showed that light was electromagnetic radiation. His theory is considered to have paved the way for both quantum mechanics and Einstein's theory of special relativity.

• Andre-Marie Ampere the astatic needle, a critical component of the modern astatic galvanometer, and was the first to demonstrate that a magnetic field is generated when two parallel wires are charged with electricity. He is generally credited as one of the first to discover electromagnetism.

Q87. Answer: (d) Tabla

The correct answer is Tabla.

Key Points

• Anokhelal Mishra was an Indian Tabla Artist who belonged to the Banaras Gharana of Hindustani classical music.

• Anokhelal Learnt Tabla for about 15 years from Bhairow Prasad Mishra. Bhairow Prasad Mishra was a disciple of Bhagat-ji. Bhagat-Ji was a disciple of Ram Sahai, the founder of The Banaras-Baj (aka Banaras Gharana).

• He also spelled as AnokheLal Misra and commonly known as Pandit Anokhelalji

Additional Information

• Surbahar is an Indian player of Rudra Veena, Saraswati Veena, and Surbahar. He is unique in being a left-handed artist who has mastered all the three veenas of Indian classical music - the Rudra Veena, the Saraswati Veena, and the Surbahar.

• Sarod is an adaptation of the Afghan rabab, which arrived in India during the 16th century. The modern form of the instrument was designed in the 19th century. It is one of the most important concert instruments in Hindustani music and is often accompanied by the tabla (drums) and tambura (drone lute).

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• Shehnai is a double-reed conical oboe of North India. The shehnai is made of wood, except for a flaring metal bell attached to the bottom of the instrument, and measures about 12–20 inches (30–50 cm) in length, with six to eight keyless finger holes along its body.

Q88. Answer: (d) Barakar

The correct answer is Barakar.

Key Points

• The Barakar River is the main tributary of the Damodar River in eastern India.

• Originating near the Padma in Hazaribagh district of Jharkhand it flows for 225 kilometers (140 mi) across the northern part of the Chota Nagpur Plateau, mostly in a west to east direction, before joining the Damodar near Dishergarh in Asansol, Bardhaman district of West Bengal.

• It has a catchment area of 6,159 square kilometers (2,378 sq mi). The main tributaries, Barsotti and Usri, flow in from the south and north respectively.

Additional Information

• Kangsabati also variously known as the Kasai and Cossye rises from the Chota Nagpur plateau in the state of west Bengal, India, and passes through the districts of Purulia, Bankura, Paschim Medinipur, and Purba in West Bengal before draining into the bay of Bengal

• The Shilabati River (also known as Shilai) originates near Chak Gopalpur village of Hura block in the Purulia district of the Indian state of west Bengal

• Rupnarayan River river in West Bengal state, northeastern India.

• It rises as the Dhaleshwari (Dhalkisor) in the Chota Nagpur plateau foothills northeast of the city of Purulia and follows a tortuous southeasterly course past the city of Bankura, where it is known as the Dwarkeswar.

Q89. Answer: (b) Anshu Malik

The correct option is Anshu Malik.

Key Points

• Anshu Malik won the silver medal in the 2021 World Wrestling Championship held in Oslo, Norway.

• Anshu Malik competes in the Women's 57kg weight category.

• Other medals won by her are as follows:

• won Gold in the 60 kg category of the Cadet Wrestling Championships.

• won a Bronze medal in the 57 kg event at the 2020 Asian Wrestling Championship held in New Delhi, India.

• won the Silver medal in the 57 kg event at the Individual Wrestling World Cup held in Belgrade, Serbia.

• In Asian Wrestling Championships 2021, Malik bagged Gold Medal.

• In April 2022, she won one of the Bronze medals in the 57 kg event at the 2022 Asian Wrestling Championships held in Ulaanbaatar.

Additional Information

• India won 14 medals including seven gold at the Cadet World Wrestling Championships. Five of the seven gold medals were won by female wrestlers.

• Suraj Vashisht became the first Indian Greco-Roman wrestler after 32 years to win a gold at the event.

• Ritika and Priya were the first freestyle gold medalists for India at the competition this year, as they clinched the top prize in the 43 kg and 73 kg categories.

• India has won 4 gold,3 silver, and 3 bronze medals in Commonwealth Games 2022, England.

Q90. Answer: (a) Bharatanatyam

The correct answer is Bharatanatyam.

Key Points

• Bharatanatyam is a major form of Indian classical dance that originated in Tamil Nadu.

• The Natya Shastra by Bharata Muni and Abhinaya Darpana by Nandikeshvara are considered to be the original sources of Bharatanatyam.

• The dance form is also briefly mentioned in the Kannada text Manasollasa written by Someshwara III.

• Lord Shiva is considered the god of this dance form.

• The Kalidas Samman is a prestigious arts award presented annually by the government of Madhya Pradesh in India.

• The award is named after Kālidāsa, a renowned Classical Sanskrit writer of ancient India. The Kalidas Samman was first awarded in 1980.

• Vannadil Pudiyaveettil Dhananjayan and Shanta Dhananjayan, also known as the Dhananjayans, they are the dancing couple of

India and were awarded Padma Bhushan in 2009.

Additional Information

• Odissi also referred to as Orissa in old literature, is a major ancient Indian classical dance that originated in the Hindu temples of Odisha

• Kathakali is a major form of classical Indian dance.

• It is a "story play" genre of art, but one distinguished by the elaborately colorful make-up, costumes, and face masks that the traditionally male actor-dancers wear.

• Kuchipudi is one of the eight major Indian classical dances.

• It originates from a village named Kuchipudi in the Indian state of Andhra Pradesh.

Q91. Answer: (d) Sa-Dhan

The correct answer is Sa-Dhan.

Key Points

• Microfinance refers to the financial services provided to low-income individuals or groups who are typically excluded from traditional banking.

• Most microfinance institutions focus on offering credit in the form of small working capital loans, sometimes called microloans or microcredit.

• Sa-Dhan's mission is to build the field of community development finance in India to help its member and associate institutions to better serve low-income households, particularly women, in both rural and urban India, in their quest for establishing stable livelihoods and improving quality of life.

Additional Information

• Pradhan Mantri Jan Dhan Yojana is a financial inclusion program of the Government of India open to Indian citizens, that aims to expand affordable access to financial services such as bank accounts, remittances, credit, insurance, and pensions.

Q92. Answer: (b) 2021

The correct answer is 2021.

Key Points

• Manjamma Jogathi, is an Indian Kannada theatre actress, singer, and dancer of Jogathi Nritya, a folk dance form of North Karnataka.

• In 2019, she became the first transgender woman to be the president of Karnataka Janapada Academy, the state's top institution for folk arts.

• She was born on 20 May 1957.

• A folk dance is a dance that reflects the life of the people of a certain country or region.

• Not all ethnic dances are folk dances. For example, ritual dances or dances of ritual origin are not considered to be folk dances.

Additional Information

• The Padma Awards are one of the highest civilian honors of India announced annually on Republic Day.

• The Awards are given in three categories: Padma Vibhushan (for exceptional and distinguished service), Padma Bhushan (distinguished service of higher order), and Padma Shri (distinguished service).

Q93. Answer: (a) Nalanda Dance Research Centre

The correct answer is Nalanda Dance Research Centre.

Key Points

• Nalanda initiated a process of honoring individuals who have acquired iconic status by awarding them with the “Bharata Muni Samman”.

• At their renowned dance festival, Nalanda Nirityotsava, which is a four-day celebration of Indian classical dances.

• Talking about the Nalanda Nritya Nipuna award for the youth, Dr. Uma Rele said, “This year we had 21 highly talented participants in the Nirtyotsava, with a very high standard of performances, it was a difficult choice to make but after considering all the aspects of the dance presentation, the panel unanimously chose 12 dancers for the award.

Additional Information

• Nalanda Nritya Kala Mahavidyalaya was established in the year 1973 by the famous dancer academician Padmabhushan Dr. (Smt.) Kanak Rele. Currently Dr. (Smt.) Uma Rele is the Principal of the college.

• Awards given by the President are Param Vir Chakra, Ashoka Chakra, Mahavir Chakra, Kiriti Chakra, Vir Chakra, and Saurya Chakra.

• Sangeet Natak Akademi is the national-level academy for performing arts set up by the Government of India.

• The Government of India instituted two civilian awards-Bharat Ratna & Padma Vibhushan in 1954 and Padma Vibhushan, Padma Bhushan and Padma Shri vide Presidential Notification issued on January 8, 1955.

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Q94. Answer: (c) Basketball

The correct answer is Basketball.

Key Points

• Basketball is a team sport in which two teams play at a time.

• Most commonly five players each opposing one another on a rectangular court.

• Their primary objective of shoot a basketball through the defender's hoop.

• The International Basketball Federation is an association of national organizations which governs the sport of basketball worldwide.

• The current champions are Spain, who defeated Argentina in the final of the 2019 tournament.

Additional Information

• Softball is a game similar to baseball played with a larger ball on a field that has base lengths of 60 feet, a pitcher's mound that ranges from 35 to 43 feet away from home plate, and a home run fence that is 220–300 feet away from home plate, depending on the type of softball being played.

• Volleyball is a team sport in which two teams of six players are separated by a net. It has been a part of the official program of the Summer Olympic Games since Tokyo 1964.

• Throwball is a non-contact ball sport played across a net between two teams of nine players on a rectangular court. Throwball is popular in Asia, especially on the Indian subcontinent, and was first played in India as a women's sport in Chennai during the 1940s.

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Q95. Answer: (a) Rectilinear motion

The correct answer is Rectilinear motion.

Key Points

• Rectilinear motion is also known as Linear motion.

• Rectilinear motion is one-dimensional motion along a straight line, and can therefore be described mathematically using only one spatial dimension.

• A linear motion in which the direction of the velocity remains constant and the path is a straight line.

• Gravitational forces acting on objects resulting in free fall is an example of rectilinear motion.

• Kids sliding down from a slide is a rectilinear motion.

• The motion of planes in the sky is a rectilinear motion.

Additional Information

• Periodic motion is a motion repeated in equal intervals of time.

• Periodic motion is performed, for example, by a rocking chair, a bouncing ball, a vibrating tuning fork, a swing in motion, the Earth in its orbit around the Sun, and a water wave.

• Rotational motion can be defined as the motion of an object around a circular path, in a fixed orbit.

• A motion repeating itself is referred to as periodic or oscillatory motion.

• An object in such motion oscillates about an equilibrium position due to a restoring force or torque.

Q96. Answer: (b) BV Acharya

The correct answer is BV Acharya.

Key Points

• B.V. Acharya is a senior advocate at the Karnataka High court. He is the son of Ramachandra Acharya, a Shivalli Madhva Brahmin, and native of the Udupi district.

• He has been the advocate general of the Karnataka government several times.

• He wrote a book named All from Memory: An Autobiography.

• This book reveals the firm belief of the author that contentment always leads to happiness eliminating frustration. Being an autobiography the book furnishes details of his family and family background. It also briefly explains his views on matters of importance in the legal field such as the quality of an ideal judge, the conduct of judges in courts, etc. The book also refers to the hardship which a public prosecutor has to face in sensational cases.

Additional Information

• Leila Seth was an Indian judge who served as the first woman judge on the Delhi High Court and became the first woman to become Chief Justice of a state High Court, Himachal Pradesh High Court, on 5 August 1991.

• She was also the first woman to be designated as a senior counsel by the Supreme Court of India.

• Margaret Alva is an Indian politician

•. Alva served as the 17th Governor of Goa, 23rd Governor of Gujarat, 20th Governor of Rajasthan and 4th Governor of

Uttarakhand until the end of her tenure in August 2014.

• She has formerly served as the Cabinet Minister.

• Sita Ram Goel was an Indian historian, religious and political activist, writer, and publisher in the late twentieth century

Q97. Answer: (c) West Bengal

The correct answer is West Bengal.

Key Points

• The West Bengal government on Monday (February 7) launched 'Paray Shikshalaya' – an open-air classroom in the neighbourhood program – for students from classes 1 to 7.

• The aim of this initiative is to encourage students who dropped out of school during the Covid-19 pandemic to continue their education.

• On January 31, schools across the state opened for classes 8 to 12. However, students studying in lower classes continued to take online classes.

• Initially, the initiative was meant for primary school students (1 to 5). However, students in classes 6 and 7 were also included as physical classes in schools did not reopen for them.

Q98. Answer: (d) Jugal Hansraj

The correct answer is Jugal Hansraj.

Key Points

• The Kingdom of Kofu is ruled by the brave king Rissho.

• Its people are courageous and skilled in war with one exception.

• Prince Kadis, the sixteen-year-old heir to the kingdom. He is not brave. He is not courageous. He is not skilled in war. Kadis knows in his heart that he does not fit in. That he is different. That he is a coward. Until one day, a seemingly chance encounter changes his life completely. Armed with the mystical sword of Kofu, the timid prince and his two young friends, embark on an epic trip to bring peace to the warring kingdoms of Kofu and Milonga. Will the young prince overcome his fears and will peace win against war?

• Jugal Hansraj is an Indian actor, model, producer, writer, author and director, based in New York. Hansraj started his career as a child actor in the 1983 film Masoom, which starred Naseeruddin Shah and Shabana Azmi. He continued his career as a child actor in films like Karma and Sultanat.

Additional Information

• Rushad Rana is an Indian actor and influencer.

• He is well known for his portrayal of Raghav in Hip Hip Hurray, Nikhil in Kehta Hai Dil, Sumit in Sasural Simar Ka, Coach Sir in Yeh Un Dinon Ki Baat Hai and Aniruddh Gandhi in Anupamaa.

• Jimmy Sheirgill also credited as Jimmy Shergill, is an Indian actor and film producer who works in Hindi and Punjabi films.

• Sheirgill began his film career with the 1996 thriller Maachis.

• Uday Raj Chopra is an Indian actor, film producer, director, screenwriter and assistant director in Bollywood.

• He is the son of the late filmmaker Yash Chopra and brother of Aditya Chopra.

Q99. Answer: (c) 6.75 × 10^(-11) N m²/kg²

The correct answer is 6.75 × 10-11 N m2/kg2.

Key Points

• The Cavendish experiment was performed in 1797–1798 by English scientist Henry Cavendish.

• It was the first experiment to measure the force of gravity between masses in the laboratory and the first to yield accurate values for the gravitational constant.

• The Cavendish experiment was significant not only for measuring Earth's density (and thus its mass) but also for proving that Newton's law of gravitation worked on scales much smaller than those of the solar system.

Additional Information

• Henry Cavendish FRS was an English natural philosopher and scientist who was an important experimental and theoretical chemist and physicist. He is noted for his discovery of hydrogen, which he termed "inflammable air".

• He was born on 10 October 1731, in Nice in France.

• He died on 24 February 1810, in London, United Kingdom

Q100. Answer: (a) 41

The correct answer is 41.

In News

• The Essential Defence Services Bill, 2021 was introduced in Lok Sabha by the Minister of Defence, Mr. Rajnath Singh, on July

22, 2021.

• The Bill seeks to replace the Ordinance promulgated in June 2021.

• The Bill allows the central government to prohibit strikes, lock-outs, and lay-offs in units engaged in essential defence services.

Key Points

• Key features of the Bill include:

• Essential defence services:

• Essential defence services include any service in: (i) any establishment or undertaking dealing with the production of goods or equipment required for defence-related purposes, or (ii) any establishment of the armed forces or connected with them or defence.

• Public utility service: The Bill amends the Industrial Disputes Act, of 1947 to include essential defence services under public utility services.

• Strikes: Under the Bill, the strike is defined as cessation of work by a body of persons acting together.

• Prohibition on strikes, lock-outs, and lay-offs: Under the Bill, the central government may prohibit strikes, lock-outs, and lay-offs in units engaged in essential defence services.

Additional Information

• Punishment for illegal lock-outs and lay-offs:

• Employers violating the prohibition order through illegal lock-outs or lay-offs will be punished with up to one-year imprisonment or a Rs 10,000 fine or both.

• Punishment for illegal strikes:

• Persons commencing or participating in illegal strikes will be punished with up to one-year imprisonment or Rs 10,000 fine or both.

• Persons instigating, inciting, or taking actions to continue illegal strikes, or knowingly supplying money for such purposes, will be punished with up to two years imprisonment or Rs 15,000 fine, or both.

• Further, such an employee will be liable to disciplinary action including dismissal as per the terms and conditions of his service.

• In such cases, the concerned authority is allowed to dismiss or remove the employee without any inquiry, if it is not reasonably practicable to hold such inquiry.

• All offences punishable under the Bill will be cognizable and non-bailable.

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