SSC CHSL Tier-1 2021: Official Paper (Held On : 6 June 2022 Shift 3) (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. Spot the error in the given sentence and select the correct sentence from the options given.

He wished he has more resources to support the poor.

(a) He wished his having more resources to support the poor.
(b) He wished he have more resources to support the poor.
(c) He wishing he has more resources to support the poor.
(d) He wished he had more resources to support the poor.

Q2. Select the most appropriate meaning of the idiom given in bold in the following sentence.

The minister is a little hard of hearing.

(a) inaccessible
(b) callous
(c) partially deaf
(d) insensitive

Q3. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

In the Second World War, the British _____ thousands of so-called interceptors – mostly women – whose job it was to tune in every day and night to the radio _____ of the various divisions of the German military.

(a) averted, broadbills
(b) assented, broadsides
(c) assembled, broadcasts
(d) adhered, broadlooms

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

Elbow grease

(a) Psychological pressure
(b) Relational difference
(c) Hard physical efforts
(d) Mental disturbance

Q5. Select the option that expresses the given sentence in passive voice.

The rules forbid passengers to cross the railway bridge.

(a) Forbidden are the passengers to cross the railway bridge.
(b) Forbidden by the rules, the passengers cannot cross railway bridge.
(c) Passengers are forbidden by the rules to cross the railway bridge.
(d) Railway bridge is forbidden for the passengers to cross.

Q6. Select the most appropriate ANTONYM of the word ‘Exaggerate’ from the given sentence.

Rajni did understate Sheila’s embroider work as, according to her, it was worthless to decorate a piece of cloth with abstract ideas and then elaborate it to the audience on the stage.

(a) Elaborate
(b) Embroidery
(c) Decorate
(d) Understate

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

The organisation had set up for a Free Mandela Committee and launched a lively campaign with the slogan ‘Free Mandela’.

(a) had set up
(b) had set to
(c) had set over
(d) had set upon

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

Something that will cure all illnesses

(a) Wine
(b) Vaccination
(c) Panacea
(d) Tonic

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

He ordered the police to pursue the robber and his gang.

(a) Order the police to pursue the robber gang.
(b) Pursue the robber and gang were the orders by police.
(c) The robber and gang were pursued.
(d) The police were ordered to pursue the robber and his gang.

Q10. 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. Wearing noise cancellation headphones is an example of such equipment.

B. Preventive measures involve the availability of proper equipment.

C. Noise exposure is the primary reason for hearing loss among the workers.

D. It affects the working class in a big way both mentally and physically.

(a) CDBA
(b) BDCA
(c) CDAB
(d) ADBC

Q11. Select the most appropriate synonym of the word given in bold in the following sentence.

In his youth Joyonto must have been startlingly handsome.

(a) enviously
(b) lightly
(c) wrinkly
(d) amazingly

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

Donkey's years

(a) A very long time
(b) A stupid argument
(c) A worthless person
(d) Futile effort

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Q13. Select the most appropriate synonym of the highlighted word.

The government's utilitarian stance was appreciated by all.

(a) functional
(b) fanciful
(c) distasteful
(d) necessary

Q14. Select the most appropriate synonym of the given word.

Abrogate

(a) Endure
(b) Reveal
(c) Extend
(d) Repeal

Q15. Select the option that expresses the given sentence in active voice.

The national anthem was being sung very enthusiastically by young students in the annual event.

(a) The young students in the annual event were singing the national anthem very enthusiastically.
(b) The national anthem was sung very enthusiastically for young students in the annual event.
(c) The young students in the annual event had been singing the national anthem very enthusiastically.
(d) The national anthem sang the young students very enthusiastically.

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

Delay

(a) Scarce
(b) Nice
(c) Haste
(d) Weary

Q17. Select the most appropriate option to fill in the blank.

Discipline must be _____ at any cost

(a) instructed
(b) curtailed
(c) maintained
(d) highlighted

Q18. Select the INCORRECTLY spelt word.

(a) Inoculate
(b) Leisure
(c) Medieval
(d) Milennium

Q19. Select the most appropriate synonym of the word given in bold in the following sentence.

Forgetting the past is inevitable for being able to create a future.

(a) inescapable
(b) extravagant
(c) privileged
(d) unpredictable

Q20. From among the words given in bold, select the INCORRECTLY spelt word in the following sentence.

Evelyn Glennie has brought percusion to the front of the orchestra, and demonstrated that it can be very moving.

(a) demonstrated
(b) percusion
(c) orchestra
(d) brought

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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.

Science, according to popular (1)_____, is a remote and enigmatic idea that is (2)____ the comprehension of ordinary minds and peace-loving people. This is most likely why the words 'scientist' and 'mad' have been used interchangeably for centuries. But, given that science is the foundation upon which our lives are built, isn't it (3)____ that science appears to be beyond the common mind's comprehension? Similarly, mathematics, the (4)_____ of science, gives meaning to the concept of quantification and (5)_____ value for us humans. There are a few examples of how science and mathematics rewire our brains, just go and check.

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

(a) believe
(b) believes
(c) belief
(d) beliefs

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

(a) beyond
(b) above
(c) before
(d) for

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

(a) ironic
(b) logical
(c) obvious
(d) gracious

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

(a) glory
(b) secret
(c) crest
(d) bedrock

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

(a) unapparent
(b) incomprehensible
(c) unequivocal
(d) undecipherable

GENERAL INTELLIGENCE

Q26. Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term

9 : 45 : : ? : 50 : : 32 : 68

(a) 7
(b) 18
(c) 14
(d) 21

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

50 * 5 * 10 * 1 * 5 * 5

(a) ÷, =, ×, +, –
(b) ÷, +, =, +, +

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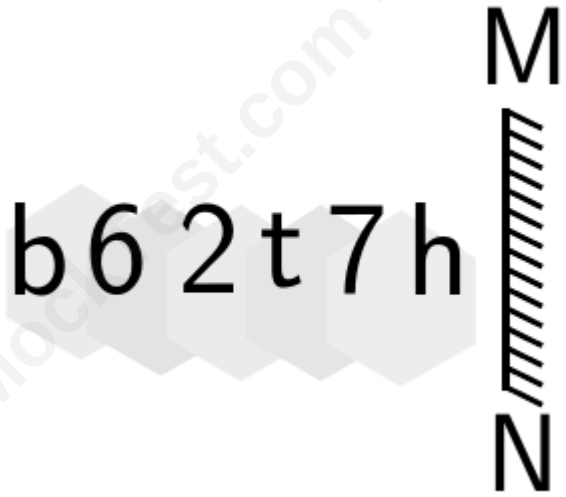
(c) =, ×, +, +, –
(d) +, =, +, ×, ×

Q28. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

35 : 135 : : 17 : ? : : 24 : 91

(a) 65
(b) 57
(c) 63
(d) 55

Q29. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



(c)



(d)



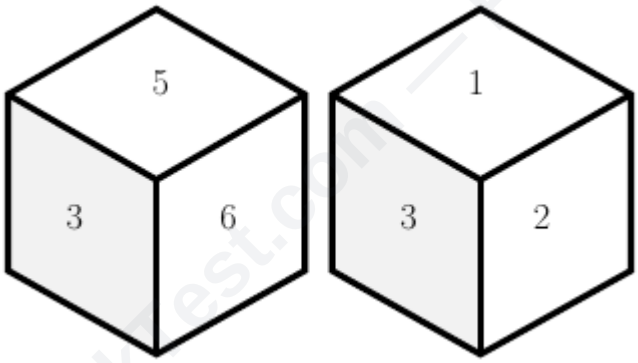
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Q30. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

13 : 69 : : 17 : ? : : 23 : 129

(a) 96
(b) 93
(c) 84
(d) 104

Q31. 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 '3'.



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

Q32. In a certain code language, 'PLATINUM' is coded as ‘171322110152214’, and ‘COPPER’ is coded as ’4161717619’. How will 'GOLD' be coded in that language?

(a) 816124
(b) 814335
(c) 816135
(d) 916135

Q33. In a certain code language, ‘SAVIOUR’ is written as ‘UYXGQST’ and ‘HEATERS’ is written as ‘JCCRGPU’. How will ‘HEIGHTS’ be written in that language?

(a) JCKJERU
(b) JCKEJRU
(c) JCKNRJU
(d) JCGJERU

Q34. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Charger
2. Chapel
3. Chapter
4. Charcoal
5. Character

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

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Q35. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

18 : 216 : : 20 : 280 : : 12 : ?

(a) 80
(b) 88
(c) 84
(d) 72

Q36. Seven friends A, B, C, D, E, F and G, each has a different age. C is older than D. B is the oldest among all. E is older than G but younger than F. G is older than C. Only two people are younger than C. D is not the youngest. How many persons are younger than E?

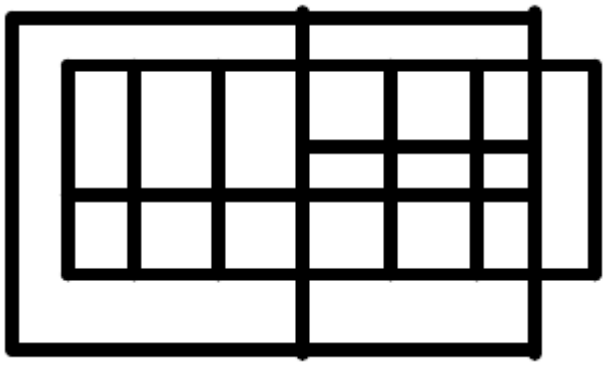
(a) 5
(b) 1
(c) 4
(d) 3

Q37. 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.

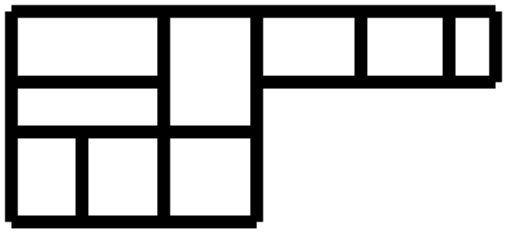
GRAPES : SAREPG : : VERBAL : LREABV : : NUMBER : ?

(a) RMUFBN
(b) RMVEBN
(c) RMUEBN
(d) RMVFBN

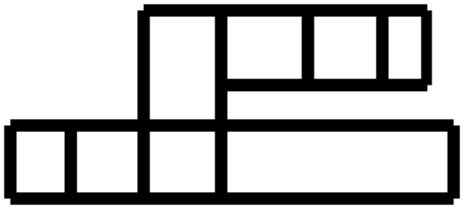
Q38. Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).



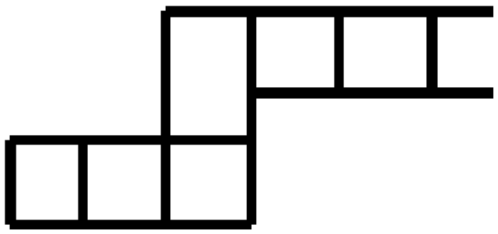
(a)



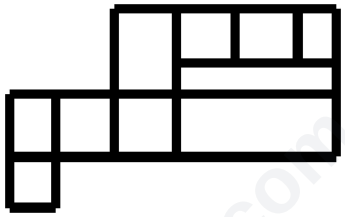
(b)



(c)



(d)



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

27 * 3 * 10 * 10 * 10

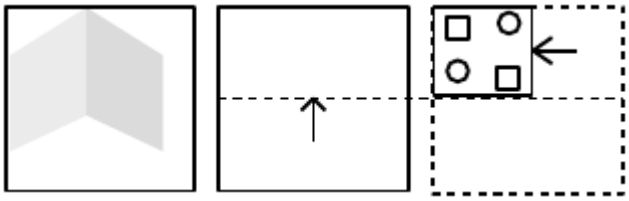
(a) +, –, =, +

(b) +, ×, =, ×

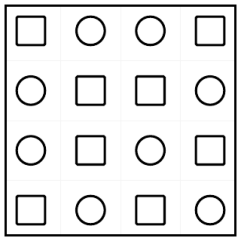
(c) ×, ÷, =, –

(d) +, –, +, =

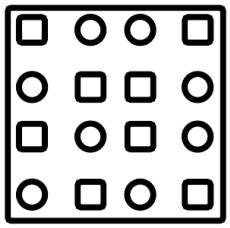
Q40. A paper is folded and cut as shown. How will it appear when unfolded?



(a)

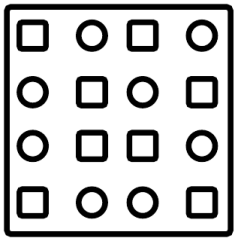


(b)

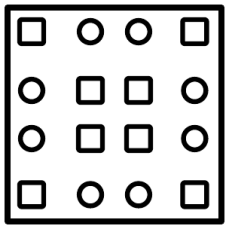


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(c)



(d)



Q41. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

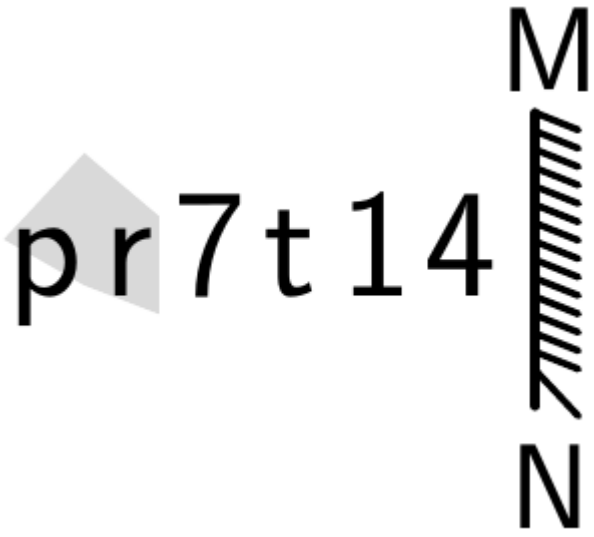
46 * 75 * 41 * 16 * 5

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

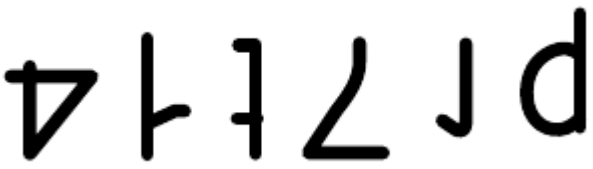
Q42. If 2^(st) January 2008 was a Wednesday, then what was the day of the week on 1^(st) January 2012?

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

Q43. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)

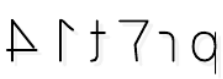


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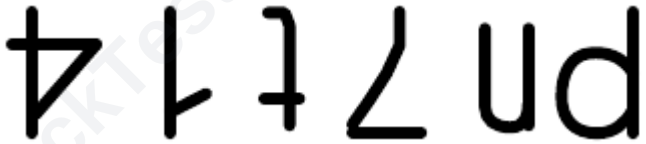
(b)



(c)



(d)



Q44. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



(c)



(d)



Q45. 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) 16 : 224
(b) 21 : 399
(c) 35 : 1155
(d) 17 : 238

Q46. Which letter-cluster will replace the question mark (?) to complete the given series?

UBEJ, VEJQ, ?, XKTE, YNYL

(a) WJSQ
(b) WHOX
(c) WABI
(d) WRHC

Q47. Which letter-cluster will replace the question mark (?) to complete the given series?

ZOFB, ?, VKJF, TILH, RGNJ

(a) XNIF
(b) BQJF
(c) XMHD
(d) BNHE

Q48. Which of the following numbers will replace the question mark (?) in the given series?

348, 353, 339, ?, 330, 371

(a) 358
(b) 362
(c) 368
(d) 342

Q49. Which of the following numbers will replace the question mark (?) in the given series?

17, 22, 11, 16, 8, 13, ?

(a) 6.5
(b) 5.5
(c) 5
(d) 4

Q50. 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:

Some woods are metals.

All metals are stones.

Some plastics are metals.

Conclusions:

I. Some stones are plastics.

II. Some woods are stones.

III. All stones are metals.

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

QUANTITATIVE APTITUDE

Q51. Which scheme among the following is most beneficial to the customer?

i) Successive discounts of 25% and 25%
ii) Flat discount of 40%
iii) Buy one, get one free
iv) Successive discounts of 30% and 20%

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

Q52. A 640 metre long train travelling at 80 km/h overtook a 540 metre long train travelling at 72 km/h in the same direction. How long did it take the faster train to cross the other train completely?

(a) 8 minutes 41 seconds
(b) 9 minutes 09 seconds
(c) 9 minutes 01 second
(d) 8 minutes 51 seconds

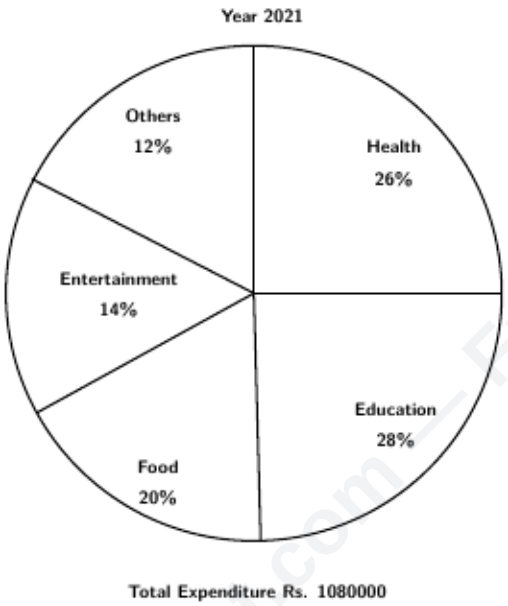
Q53. In an assembly election of two candidates, the winner got 56% of the total valid votes. 5% of the total votes were declared invalid. If the total number of voters is 3,20,000 then what is the number of valid votes polled for the winning candidate?

(a) 174020
(b) 175240
(c) 170420
(d) 170240

Q54. Study the given pie charts carefully and answer the question that follows.

Percentage of different types of expenditures of a household in two years





The expenditure on Food in 2021 was what percentage of the expenditure on Education in 2020?

(a) 95%
(b) 85%
(c) 90%
(d) 80%

Q55. Find the value of √(2 + √3) + √(2 - √3)

(a) √6
(b) 2√3
(c) 2√2
(d) 6

Q56. Simplify: 6/5 ÷ 6/5 of 6/5 × 5/6 + 9/4 ÷ 4/5 of 15/2 - { 85/9 + (4/3 + 5/3 of 6/25) }

(a) -99/40
(b) -979/360
(c) -97/120
(d) -8281/360

Q57. A dice is thrown 150 times, with the frequencies for the outcomes 1, 2, 3, 4, 5 and 6 being as given in the following table. How many times is the number appearing on the dice a prime number?

Outcome	1	2	3	4	5	6
Frequency	23	43	33	13	10	28

(a) 88
(b) 109
(c) 86
(d) 66

Q58. Which of the following numbers is divisible by 55?

(a) 178765
(b) 185625
(c) 171125
(d) 164485

Q59. Evaluate 99 × 99 − 1.

(a) 9900
(b) 9800
(c) 9801
(d) 9899

Q60. A bus covers a certain distance travelling at a speed of 40 km/h and returns to the starting point at a speed of 60 km/h. The average speed (in km/h) for the entire journey is:

(a) 48
(b) 20
(c) 100
(d) 50

Q61. The population of village has been continuously increasing at the rate of 10% per year. If its present population is 54,450, what was it two years ago?

(a) 48000
(b) 45000
(c) 52000
(d) 50000

Q62. If p = 38, then the value of $p(p^2 + 3p + 3)$ is _____.

(a) 39313
(b) 59319
(c) 39318
(d) 59318

Q63. Given below are some of the measures of the sides and angles of five triangles. Which of the triangles given in the options is NOT congruent to ΔABC?

In ΔABC, m (AB) = 3.6 cm, m (BC) = 5 cm, m (CA) = 4 cm, m(angle B) = 52.4°, m(angle C) = 45.5°

In ΔDEF, m (DE) = 4 cm, m (EF) = 5 cm, m (FD) = 3.6 cm

In ΔGHI, m (HI) = 5 cm, m(angle H) = 52.4°, m(angle I) = 45.5°

In ΔJKL, m (JK) = 3.6 cm, m (LJ) = 4 cm, m(angle J) = 52.4°

In ΔMNO, m (MN) = 3.6 cm, m (NO) = 5 cm, m(angle N) = 52.4°

(a) ΔMNO
(b) ΔGHI
(c) ΔJKL
(d) ΔDFE

Q64. A person borrowed a sum of Rs. 8,000 at an interest rate of 10% p.a., compounded semi- annually. What is the compound interest for a period of 1 year?

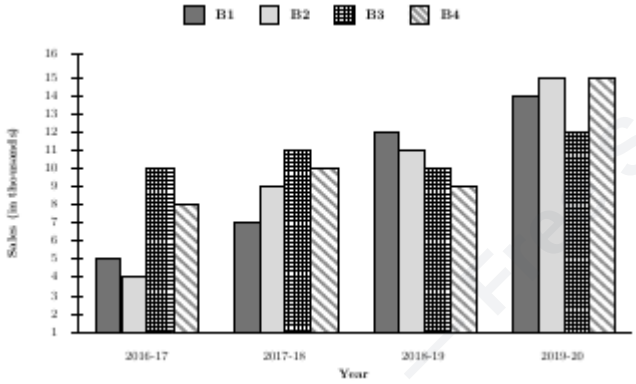
(a) Rs. 820
(b) Rs. 1,600
(c) Rs. 1,680
(d) Rs. 800

Q65. Sudhir claimed to sell his items at only 8% above the cost of production, but used a weight that had 750 grams written on it, though it actually weighed 720 grams. What was the actual profit percentage earned by Sudhir?

(a) 12.6%
(b) 12.25%
(c) 12.5%
(d) 12.75%

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Q66. The given bar graph shows the sales (in thousands) of four mobile brands for four years. Study the graph and answer the question that follows.



If the sales of a brand is more than the average sales of these four brands in any year, then it gets a star. Which brand has the minimum number of stars from 2016 to 2020?

(a) B1
(b) B3
(c) B2
(d) B4

Q67. If the length, the breadth, and the height of a cuboid are respectively 12 m, 6 m and 50 cm, then find the volume of the cuboid.

(a) 336 m^3
(b) 3600 m^3
(c) 360 m^3
(d) 36 m^3

Q68. Copper and bronze are in the ratio 3 : 4 in 350 gm of an alloy. The quantity (in gm) of copper to be added to it to make the ratio 4 : 3 is:

(a) 116.67 gm
(b) 126.67 gm
(c) 123.33 gm
(d) 113.33 gm

Q69. If A = 30°, what is the value of:

$([6 \sin A + 9 \operatorname{cosec} A - \cot^2 A])/(12 \sin A)$

(a) 6
(b) -6
(c) 3
(d) -3

Q70. Find the volume of a cuboid whose dimensions are 15 m, 22 m and 5 m.

(a) 1850 m^3
(b) 1480 m^3
(c) 1650 m^3
(d) 1220 m^3

Q71. In an examination it is required to get a minimum of 340 marks in aggregate to pass. A student gets 244 marks and is declared failed by 12% of the total marks. What are the maximum aggregate marks a student can get?

(a) 1000
(b) 800
(c) 960
(d) 720

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Q72. The area of a right-angled triangle is 42 cm². If the length of one of its two sides containing the right angle is 10 cm, find the length of the other side that contain the right angle.

(a) 4.0 cm
(b) 8.0 cm
(c) 8.4 cm
(d) 4.8 cm

Q73. A can complete a work in 5 days and B can complete the same work in 10 days. If A and B work alternately, starting with A, in how many days will they complete the work?

(a) 62/5 days
(b) 61/2 days
(c) 72/5 days
(d) 71/2 days

Q74. A merchant gives an additional discount of 10% on the product after an initial discount of 20% on the listed price. He managed to make a 10% profit by selling the product for Rs. 54,000. What was the listed price of the product?

(a) Rs. 77,500
(b) Rs. 77,000
(c) Rs. 75,000
(d) Rs. 72,500

Q75. The difference between mean proportion of 9 & 16 and 4 & 9 is:

(a) 6
(b) 12
(c) 108
(d) 180

GENERAL AWARENESS

Q76. Which mountain range covers a distance of about 1500 miles (2400 km) and passes through India, Pakistan, Afghanistan, China, Bhutan, and Nepal?

(a) Himalayan mountain range
(b) Purvanchal mountain range
(c) Aravalli mountain range
(d) Pir Panjal mountain range

Q77. Article 32 of the Constitution of India deals with the:

(a) Right to Freedom of Speech and Expression
(b) Right against Exploitation
(c) Right to Property
(d) Right to Constitutional Remedies

Q78. Which biological stain is used in histology and cytology to colour all cell nuclei red?

(a) Methyl orange
(b) Safranin
(c) Phenolphthalein
(d) Cresol red

Q79. What is the area of coverage in a hectare of forest and tree cover in India as per Forest Survey 2021?

(a) 89.9 million hectare
(b) 80.9 million hectare
(c) 88.9 million hectare
(d) 90.9 million hectare

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Q80. Name the first Indian woman to be conferred with Grammy Award.

(a) Ananya Birla
(b) Anushka Shankar
(c) Asha Bhosle
(d) Tanvi Shah

Q81. Which of the following is the autobiography of the international athlete Maria Sharapova?

(a) Open
(b) Unbreakable
(c) But Seriously
(d) Unstoppable: My Life So Far

Q82. In an economy, fisheries are a part of _____.

(a) tertiary sector
(b) secondary sector
(c) either secondary or tertiary sector
(d) primary sector

Q83. Padma Shri awardee Shobha Naidu was a _____ dancer.

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

Q84. Which of the following countries won two ICC T20 World Cup Cricket titles?

(a) New Zealand
(b) Australia
(c) West Indies
(d) India

Q85. Veteran Dance guru, Jatin Goswami was awarded with the Kalidas Samman for his significant contribution to which of the following dance forms?

(a) Sattriya
(b) Deodhani
(c) Chhau
(d) Bagurumba

Q86. The Constitution (Scheduled Castes) Order Amendment Bill, 2021 was introduced in the Lok Sabha on 13 February 2021, which amended the Constitution (Scheduled Castes) Order, _____.

(a) 1952
(b) 1950
(c) 1947
(d) 1959

Q87. Who among the following was honoured with the Padma Shri in 2011 for his/her excellence in Chhau, a semi-classical dance form of Eastern India?

(a) Kedarnath Sahoo
(b) Gopal prasad Dubey
(c) Suddhenra Narayan Singhdeo
(d) Makar Dhwaja Daroga

Q88. As in August 2021, which State Government agreed to continue to sponsor the men's and women's national hockey teams for another 10 years after the current sponsorship ends in 2023?

(a) Bihar
(b) Odisha

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(c) Uttar Pradesh
(d) Maharashtra

Q89. Which of the following is the title of the autobiography of Sania Mirza?
(a) Sunny Days
(b) Touched by God
(c) Ace Against Odds
(d) Unbreakable

Q90. 'A Shot at History: My Obsessive Journey to Olympic Gold' is the autography of the famous sportsperson _____.
(a) Abhinav Bindra
(b) PV Sindhu
(c) Mirabai Chanu
(d) Lovlina Borgohain

Q91. Who among the following was the creator of Raga Darbari Canada and the court poet of Akbar's court during the Mughal period in India?
(a) Bilas Khan
(b) Swami Haridas
(c) Baiju Bawra
(d) Mian Tansen

Q92. In which year did Dmitri Mendeleev and Lothar Meyer individually come up with their own periodic law and proposed that on arranging elements in the increasing order of their atomic weights, similarities appear in physical and chemical properties at regular intervals?
(a) 1870
(b) 1879
(c) 1869
(d) 1850

Q93. Who among the following is the best Rudra Veena player in Hindustani Classical Music?
(a) Ustad Rashid Khan
(b) Inayat Hussain Khan
(c) Sultan Khan
(d) Ustad Asad Ali Khan

Q94. Which gymnastic event takes place on a large floor mat?
(a) Uneven parallel bar
(b) Floor exercise
(c) Vaulting table
(d) Balance beam

Q95. Philosophia Naturalis Principia Mathematica, popularly known as Principia, published in 1687, is the greatest work of which scientist?
(a) Johannes Kepler
(b) John Philoponus
(c) Isaac Newton
(d) Edmund Halley

Q96. Identify the formula that represents Ohm's law.
(a) $V = A + \Omega$
(b) $A = V \times \Omega$
(c) $\Omega = A \times V$
(d) $V = A \times \Omega$

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Q97. Who among the following Indian musician founded Harmony and Universality through Music (HUM) to perform in different parts of the world and draw people's attention to specially-abled children?

(a) Kumar Bose
(b) Sandeep Das
(c) Swapan Chaudhuri
(d) Anindo Chatterjee

Q98. Sitara Devi, Padma Shri and Kalidas Samman awardee was awarded for reviving which of the following dance forms in India?

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

Q99. Which of the following plants is on the verge of extinction due to insensitivity to our environment?

(a) Rosa damascena
(b) Madhuca insignis
(c) Helianthus annuus
(d) Bellis perennis

Q100. On 1 February 2021, _____ announced two schemes – Pragyan Bharati and Bhasha Gaurav – to provide monetary assistance to college students and literary bodies of the state.

(a) Chhattisgarh
(b) West Bengal
(c) Jharkhand
(d) Assam

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) He wished he had more resources to support the poor.

The solution is He wished he had more resources to support the poor.

Key Points

• The error in the given sentence "He wished he has more resources to support the poor." is He wished he had more resources to support the poor.

• Therefore option 4 is the correct option.

Additional Information

• The main difference between has and had is the tense they are used in Has is used for referring to the third person but in the singular present tense of the verb, while Had is used for referring to the third person but in singular past tense and past participle

of the verb.

Q2. Answer: (c) partially deaf

The solution is partially deaf.

Key Points

• The most appropriate meaning of the idiom given in bold in "The minister is a little hard of hearing." is partially deaf.

• Therefore option 3 is the correct option.

Additional Information

• Let's discuss about idioms:

• A group of words established by usage as having a meaning not deducible from those of the individual words.

• For example:-

• On cloud nine - Being very happy.

• Get your act together - Get organized and do things effectively.

• Back against the wall - Stuck in a difficult circumstance with no escape

Q3. Answer: (c) assembled, broadcasts

The solution is assembled, broadcasts.

Key Points

• The most appropriate option to fill in "In the Second World War, the British _____ thousands of so-called interceptors – mostly women – whose job it was to tune in every day and night to the radio _____ of the various divisions of the German military" is assembled, broadcasts.

• In the Second World War, the British assembled thousands of so-called interceptors mostly women whose job it was to tune in every day and night to the radio broadcasts of the various divisions of the German military.

• Assembled - (of people) gather together in one place for a common purpose:

• *For example : "*a crowd had assembled outside the gates."

• Broadcast - transmit (a programme or some information) by radio or television:

• For example : "the announcement was broadcast live"

• Therefore option 3 is the correct option.

Additional Information

• Let's discuss the information about other options :

• Assented - Express approval or agreement.

• For example : "Guest house, then,' Frank assented cheerfully"

• Broadsides - A fierce verbal attack.

• For example :"He launched a broadside against the economic reforms"

• Adhered - Stick fast to (a surface or substance).

• For example :"paint won't adhere well to a greasy surface"

• Broadlooms - Carpet woven in wide widths.

• For example :"wall-to-wall broadloom"

Q4. Answer: (c) Hard physical efforts

The solution is Hard physical efforts.

Key Points

• The most appropriate meaning of the given idiom "Elbow grease" is Hard physical efforts.

• Therefore option 3 is the correct answer.

Additional Information

• Let's discuss about idioms:

• A group of words established by usage as having a meaning not deducible from those of the individual words.

• For example:-

• On cloud nine - Being very happy.

• Get your act together - Get organized and do things effectively.

• Back against the wall - Stuck in a difficult circumstance with no escape

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Q5. Answer: (c) Passengers are forbidden by the rules to cross the railway bridge.

The solution is Passengers are forbidden by the rules to cross the railway bridge.

Key Points

• The option that expresses in passive voice "The rules forbid passengers to cross the railway bridge." is Passengers are forbidden by the rules to cross the railway bridge.

• Therefore option 3 is the correct option.

Additional Information

• Passive voice is a quality of a verb that describes when the subject of a sentence is acted upon by the verb.

• Passive voice - The girl was shot.

• Active voice - I shot the girl.

Q6. Answer: (d) Understate

The solution is Understate.

Key Points

• The most appropriate ANTONYM of the word ‘Exaggerate’ is Understate.

• Therefore option 4 is a correct option.

Additional Information

• Antonym - Antonym is opposite of the given word.

• Antonym of Elaborate is simple.

• Antonym of Embroidery is simplification.

• Antonym of Decorate is blemish.

Q7. Answer: (a) had set up

The correct answer is: had set up.

Key Points

• The context tells us that a group had established a Free Mandela Committee and had started a spirited campaign with the catchphrase 'Free Mandela'.

• 'Set up' is a phrasal verb which means to establish a business, institution, or other organization.

• For example: I will set up a shop for Diwali.

• Similarly, in this context, the setting up of a committee is discussed here.

• Options (2), (3) and (4) are grammatically incorrect as there are incorrect prepositions ('to', 'over' and 'upon') that make the sentence contextually incorrect.

Therefore, the correct sentence is: The organisation had set up a Free Mandela Committee and launched a lively campaign with the slogan ‘Free Mandela’.

Q8. Answer: (c) Panacea

The solution is Panacea.

Key Points

• The option that can be used as a one-word substitute for "Something that will cure all illnesses." is Panacea.

• Therefore option 3 is a correct option.

Additional Information

• Let's discuss information about other options :

• Wine - An alcoholic drink made from fermented grape juice.

• Vaccination - Treatment with a vaccine to produce immunity against a disease.

• Tonic - A medicinal substance taken to give a feeling of vigour or well-being.

Q9. Answer: (d) The police were ordered to pursue the robber and his gang.

The solution is The police were ordered to pursue the robber and his gang.

Key Points

• The option that expresses in passive voice "He ordered the police to pursue the robber and his gang." is The police were ordered to pursue the robber and his gang.

• Therefore option 4 is the correct option.

Additional Information

• Passive voice is a quality of a verb that describes when the subject of a sentence is acted upon by the verb.

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• Passive voice - The girl was shot.
• Active voice - I shot the girl.

Q10. Answer: (a) CDBA

The solution is CDBA.

Key Points

• The sentences in the correct order to form a meaningful and coherent paragraph is CDBA.
• C- Noise exposure is the primary reason for hearing loss among the workers, D- It affects the working class in a big way both mentally and physically, B- Preventive measures involve the availability of proper equipment, A- Wearing noise cancellation headphones is an example of such equipment.
• Therefore option 1 is the correct option.

Q11. Answer: (d) amazingly

The solution is amazingly.

Key Points

• The most appropriate synonym of the word given in bold in "In his youth Joyonto must have been startlingly handsome." is amazingly.
• In his youth Joyonto must have been amazingly handsome.
• Therefore option 4 is the correct option.

Additional Information

• Enviously - Feeling or showing envy.
• Lightly - Gently, delicately or softly.
• Wrinkly - Having many lines or folds.

Q12. Answer: (a) A very long time

The solution is A very long time.

Key Points

• The most appropriate meaning of the given idiom "Donkey's years" is A very long time.
• Therefore option 1 is the correct option.

Additional Information

• Let's discuss about idioms:
• A group of words established by usage as having a meaning not deducible from those of the individual words.
• For example:-
• On cloud nine - Being very happy.
• Get your act together - Get organized and do things effectively.
• Back against the wall - Stuck in a difficult circumstance with no escape

Q13. Answer: (a) functional

The solution is in Hindi. Read it online.

Q14. Answer: (d) Repeal

The solution is Repeal.

Key Points

• The most appropriate synonym of the given word "Abrogate(repeal or do away with (a law, right, or formal agreement))" is Repeal(revoke or annul (a law or act of parliament)).
• Therefore option 4 is the correct option.

Additional Information

• Let's discuss information about other options:
• Endure - Suffer (something painful or difficult) patiently.
• For example : "He endured the pain for her."
• Reveal - Make (previously unknown or secret information) known to others.
• For example : "Mike revealed his true identity."
• Extend - Cause to cover a wider area; make larger.
• For example : "The garden has been extended."

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Q15. Answer: (a) The young students in the annual event were singing the national anthem very enthusiastically.

The solution is The young students in the annual event were singing the national anthem very enthusiastically.

Key Points

• The option that expresses the given sentence "The national anthem was being sung very enthusiastically by young students in the annual event." in active voice is The young students in the annual event were singing the national anthem very enthusiastically.

• Therefore option 1 is the correct option.

Additional Information

• Let's discuss about active and passive voice:

• Active voice - The active voice is defined as style of writing where the subject completes the action of the sentence.

• For example : " James wrote the book."

• Passive voice - The passive voice is defined as style of writing where the subject is done completing the action by what seems like it should be the object.

• For example : " The book was written by James."

Q16. Answer: (c) Haste

The solution is Haste.

Key Points

• The most appropriate ANTONYM of the given word "Delay" is Haste.

• Therefore option 3 is the correct option.

Additional Information

• Let's discuss information about antonyms:

• Antonyms - Antonyms is opposite meaning of the given word.

• Let's see antonyms of other options:

• Antonym of Scarce is plentiful.

• Antonym of Nice is unpleasant.

• Antonym of Weary is energetic.

Q17. Answer: (c) maintained

The solution is maintained.

Key Points

• The most appropriate option to fill in the blank in "Discipline must be _____ at any cost" is maintained.

• Discipline must be maintained at any cost.

• Therefore option 3 is the correct option.

Additional Information

• Let's discuss information about other options:

• Instructed - Tell or order someone to do something, especially in a formal or official way.

• For example : "I instructed that she should be given hot tea."

• Curtailed - Reduce in extent or quantity, impose a restriction on.

• For example : "Civil liberties were further curtailed."

• Highlighted - Draw special attention to.

• For example : "Her mental issue was highlighted."

Q18. Answer: (d) Milennium

The solution is Milennium.

Key Points

• the INCORRECTLY spelt word is Milennium.

• The correct spelt word is Millennium.

• Millennium - A period of a thousand years, especially when calculated from the traditional date of the birth of Christ.

• For example : "Silver first came into use on a substantial scale during the 3rd millennium bc."

• Therefore option 4 is the correct option.

Additional Information

• Let's discuss information about other options:

• Inoculate - Immunize (someone) against a disease by introducing infective material, microorganisms, or vaccine into the body.
• For example : "The country will have enough vaccine stockpiled to inoculate the entire population."
• Leisure - Time when one is not working or occupied or free time.
• For example : "People with too much enforced leisure."
• Medieval - Relating to the Middle Ages.
• For example : "A medieval castle."

Q19. Answer: (a) inescapable

The correct answer is 'inescapable'.

Key Points

• The most appropriate synonym of the word given in bold in "inevitable" is inescapable.
• Inescapable - Unable to be avoided or denied.
• For example : "Political reform was inescapable."
• **Therefore option 1 is the correct option.

Additional Information

• Let's discuss information about other options:
• Extravagant - Lacking restraint in spending money or using resources.
• For example : "It was rather extravagant to by both cars."
• Privileged - Having special rights, advantages, or immunities.
• For example : "In the nineteenth century only a privileged few had the vote."
• Unpredictable - Not able to be predicted; changeable.
• For example : "The unpredictable weather of the Scottish island."

Q20. Answer: (b) percusion

The solution is Precusion.

Key Points

• The words given in bold, select the INCORRECTLY spelt word in "Evelyn Glennie has brought percusion to the front of the orchestra, and demonstrated that it can be very moving." is Precusion.
• The correct spelt word is Percussion.
• Percussion - The striking of one solid object with or against another with some degree of force.
• For example : "the clattering percussion of objects striking the walls and the shutters"
• Therefore option 2 is the correct option.

Additional Information

• Let's discuss information about other options:
• Demonstrated - Give a practical exhibition and explanation of (how a machine, skill, or craft works or is performed).
• For example : "computerized design methods will be demonstrated"
• Orchestra - A group of instrumentalists, especially one combining string, woodwind, brass, and percussion sections and playing classical music.
• For example : "The band played an orchestra."
• Brought - Take or go with (someone or something) to a place.
• For example : "she brought Luke home from hospital"

Q21. Answer: (c) belief

The solution is belief.

Key Points

• The most appropriate option to fill in blank number 1 is belief.
• Science, according to popular belief, is a remote and enigmatic idea that is (2)_____ the comprehension of ordinary minds and peace-loving people. This is most likely why the words 'scientist' and 'mad' have been used interchangeably for centuries.
• Therefore option 3 is the correct option.

Additional Information

• Belief - An acceptance that something exists or is true, especially one without proof.
• For example : "He believes in ghosts."
• **Belief is a noun that refers to the act of accepting something as true while believe is a verb that refers to accepting something

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as truth.

Q22. Answer: (a) beyond

The solution is beyond.

Key Points

• The most appropriate option to fill in blank number 2 is beyond.

• Science, according to popular belief is a remote and enigmatic idea that is beyond the comprehension of ordinary minds and peace-loving people.

• Therefore option 1 is the correct option.

Additional Information

• Beyond - at or to the further side of.

• For example : "He pointed to a spot beyond the streetlamp."

• **Beyond is a preposition.

• Preposition: A preposition is a word used to link nouns, pronouns, or phrases to other words within a sentence.

• For example : On, Upon, Above, Before.

Q23. Answer: (a) ironic

The solution is ironic.

Key Points

• The most appropriate option to fill in blank number 3 is ironic.

• This is most likely why the words 'scientist' and 'mad' have been used interchangeably for centuries. But, given that science is the foundation upon which our lives are built, isn't it ironic that science appears to be beyond the common mind's comprehension?

• Ironic - Using or characterized by irony.

• For example : "His mouth curved into an ironic smile."

• Therefore option 1 is the correct option.

Additional Information

• Let's discuss information about other options:

• Logical - According to the rules of logic or formal argument.

• For example : "A logical impossibility."

• Obvious - Easily perceived or understood, clear, self-evident, or apparent.

• For example : "It was obvious a storm was coming in."

• Gracious - Courteous, kind, and pleasant, especially towards someone of lower social status.

• For example : "A gracious hostess."

Q24. Answer: (d) bedrock

The solution is bedrock.

Key Points

• The most appropriate option to fill in blank number 4 is bedrock.

• Similarly, mathematics, the bedrock of science, gives meaning to the concept of quantification and (5)_____ value for us humans.

• Bedrock - The fundamental principles on which something is based.

• For example : "Honestly is the bedrock of a good relationship."

• Therefore option 4 is the correct option.

Additional Information

• Let's discuss information about other options:

• Glory - High renown or honour won by notable achievements.

• For example : "To fight and die for the glory of one's nation."

• Secret - Not known or seen or not meant to be known or seen by others.

• For example : "They kept their relationship secret,"

• Crest - A comb or tuft of feathers, fur, or skin on the head of a bird or other animal.

• For example : "A large game bird with a conspicuous erect red crest."

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Q25. Answer: (c) unequivocal

The solution is unequivocal.

Key Points

• The most appropriate option to fill in blank number 5 is unequivocal.

• Similarly, mathematics, the bedrock of science, gives meaning to the concept of quantification and unequivocal value for us humans.

• Unequivocal - Leaving no doubt; unambiguous.

• For example : "An unequivocal answer,"

• Therefore option 3 is the correct option.

Additional Information

• Let's discuss information about other options :

• Unapparent - Not visible or in evidence.

• For example : "The insidious, unapparent build-up of stress."

• Incomprehensible - Not able to be understood; not intelligible.

• For example : "A language which is incomprehensible to anyone outside the office."

• Undecipherable - (of speech or writing) not able to be read or understood.

• For example : "His almost undecipherable brogue."

Q26. Answer: (c) 14

The logic followed here is:

Second number - 36 = First number

=> 9 : 45 → 45 - 36 = 9

=> 32 : 68 → 68 - 36 = 32

Similarly,

=> ? : 50 → 50 - 36 = 14

Hence, "14" is the correct answer.

Q27. Answer: (a) ÷, =, ×, +, –

BODMAS RULE:

Let's check each option:

Option 1. ÷, =, ×, +, –

Given equation: 50 * 5 * 10 * 1 * 5 * 5

After interchanging the signs, we get:

=> 50 ÷ 5 = 10 × 1 + 5 - 5

=> 10 = 10 × 1 + 5 - 5

=> 10 = 10 + 5 - 5

=> 10 = 15 - 5

=> 10 = 10

Option 2 .÷, +, =, +, +

Given equation: 50 * 5 * 10 * 1 * 5 * 5

After interchanging the signs, we get:

=> 50 ÷ 5 + 10 = 1 + 5 + 5

=> 10 + 10 = 1 + 5 + 5

=> 20 ≠ 11

Option 3. =, ×, +, +, –

Given equation: 50 * 5 * 10 * 1 * 5 * 5

After interchanging the signs, we get:

=> 50 = 5 × 10 + 1 + 5 - 5

=> 50 = 50 + 1 + 5 - 5

=> 50 = 56 - 5

=> 50 ≠ 51

Option 4. +, =, +, ×, ×

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Given equation: 50 * 5 * 10 * 1 * 5 * 5

After interchanging the signs, we get:

=> 50 + 5 = 10 + 1 × 5 × 5

=> 50 + 5 = 10 + 25

=> 55 ≠ 35

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

Q28. Answer: (c) 63

The logic followed here is:

Second number = (First number × 4) - 5

=>35 : 135 → (35 × 4) - 5 = 140 - 5 = 135

=>24 : 91 → (24 × 4) - 5 = 96 - 5 = 91

Similarly,

=>17 : ? → (17 × 4) - 5 = 68 - 5 = 63

Hence, 63 is the correct answer.

Q29. Answer: (c) [figure]

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

Detailed Explanation :-

• The line MN is the mirror.

• The word

ends with

. So, the mirror image will start with

→ Option 2 is eliminated.

• The second last letter of the word is

. So, the second letter in the mirror image will be

→ Options 1, 4 are eliminated.

Hence, Option 3) 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.

Q30. Answer: (b) 93

The logic followed here is:

Second number = (First number × 6) - 9

=>13 : 69 → (13 × 6) - 9 =78 - 9 = 69

=>23 : 129 → (23 × 6) - 9 =138 - 9 = 129

Similarly,

=>17 : ? → (17 × 6) - 9 =102 - 9 = 93

Hence, option 2) is the correct answer.

Q31. Answer: (c) 4

Given:

Logic: If two same dice have one face common in them, then write it in clockwise direction starting from the common face, then the number with a same positional value of them will be the numbers opposite to them

In given figure, 3 is common between both dice. So we write,

(3-5-6) and (3-1-2) in sequential order.

It means (5-1), (6-2) are opposite to each other.

The remaining face, (4-3) becomes opposite to each other.

So, the number opposite to 3 is 4.

Hence, 4 is the correct answer.

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Q32. Answer: (c) 816135

According to the English alphabet series and its positional value:

The logic follows here is:

(Positional value + 1) is written in place of letters.

• PLATINUM → 171322110152214

• COPPER → 4161717619

• Similarly, GOLD →

Hence, '816135' is the correct answer.

Q33. Answer: (b) JCKEJRU

The positional value table is as follows:

The pattern followed here is:

• In SAVIOUR → UYXGQST

• In HEATERS → JCCRGPU

• Similarly, In HEIGHTS →

We get 'JCKEJRU'.

Hence, "JCKEJRU" is the correct answer.

Q34. Answer: (c) 2, 3, 5, 4, 1

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

2. Chapel

3. Chapter

5. Character

4. Charcoal

1. Charger

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

Q35. Answer: (d) 72

The logic followed here is:

Second number = (First number - 6) × First number

=>18 : 216 → (18 - 6) × 18 = 12 × 18 = 216

=>20 : 280 → (20 - 6) × 20 = 14 × 20 = 280

Similarly,

=>12 :? → (12 - 6) × 12 = 6 × 12 = 72

Hence, 72 is the correct answer.

Q36. Answer: (c) 4

The logic followed here is:

1) C is older than D

=> C > D

2) B is the oldest among all

3) E is older than G but younger than F

=> F > E > G

4) G is older than C

=> F > E > G > C > D

5) Only two people are younger than C

=> F > E > G > C > D > A

6) D is not the youngest

So, the correct order will be => B > F > E > G > C > D > A

So, there are 4 persons (G, C, D and A) younger than E.

Hence, option 3 is the correct answer.

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Q37. Answer: (c) RMUEBN

The pattern followed here is:

• In GRAPES : SAREPG

.

• In VERBAL : LREABV

• Similarly, In NUMBER : ?

We get 'RMUEBN'.

Hence, RMUEBN is the correct answer.

Q38. Answer: (c) [figure]

Given figure:

Hence, option (3) is the correct answer.

Q39. Answer: (a) +, –, =, +

BODMAS RULE:

Let's check each option:

1. +, –, =, +

Given equation: 27 * 3 * 10 * 10 * 10

After interchanging the signs, we get:

=>27 + 3 - 10 = 10 + 10

=>30 - 10 = 20

=>20 = 20

2.+, ×, =, ×

Given equation: 27 * 3 * 10 * 10 * 10

After interchanging the signs, we get:

=>27 + 3 × 10 = 10 × 10

=>27 + 30 = 100

=> 57 ≠ 100

3. ×, ÷, =, –

Given equation: 27 * 3 * 10 * 10 * 10

After interchanging the signs, we get:

=>27 × 3 ÷ 10 = 10 - 10

=>27 × 0.3 = 0

=> 8.1 ≠ 0

4. +, –, +, =

Given equation: 27 * 3 * 10 * 10 * 10

After interchanging the signs, we get:

=>27 + 3 - 10 + 10 = 10

=>30 - 10 + 10 = 10

=> 30 ≠ 10

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

Q40. Answer: (d) [figure]

When the folder paper is opened, the cuts will appear as follows:

Hence, option 4) is the correct answer.

Q41. Answer: (a) +, −, =, ×

BODMAS RULE:

Let's check each option:

1. +, −, =, ×

Given equation: 46 * 75 * 41 * 16 * 5

After interchanging the signs, we get:

=>46 + 75 - 41 = 16 × 5

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=>46 + 75 - 41 = 80

=>121 - 41 = 80

=>80 = 80

2.−, ×, =, +

Given equation: 46 * 75 * 41 * 16 * 5

After interchanging the signs, we get:

=>46 - 75 × 41 = 16 + 5

=>46 - 3075 = 16 + 5

=>46 - 3075 = 21

=> -3029 ≠ 21

3. +, =, −, ×

Given equation: 46 * 75 * 41 * 16 * 5

After interchanging the signs, we get:

=>46 + 75 = 41 - 16 × 5

=>46 + 75 = 41 - 80

=>121 = 41 - 80

=>121 ≠ -39

4. −, +, ×, =

Given equation: 46 * 75 * 41 * 16 * 5

After interchanging the signs, we get:

=>46 - 75 + 41 × 16 = 5

=>46 - 75 + 656 = 5

=>702 - 75 = 5

=>627 ≠ 5

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

Q42. Answer: (c) Sunday

Given that:-

• No of days from 3 January 2008 to 1 January 2012 = 364 + 365 + 365 + 365 + 1 = 1460 as 2008 was a leap year.

• Since, it was Wednesday on 2 January 2008, every 7th day from 2 January will be a Wednesday.

• Thus, no. of odd days = 1460/7 = 4.

• Now, 2 January 2008 (Wednesday) + 4 odd days = 1 January 2012 (Sunday).

• 1st January 2012 will be Sunday.

Hence, "Sunday" is the correct answer.

Q43. Answer: (c) [figure]

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

Detailed Explanation :-

• The line MN is the mirror.

• The word

ends with

. So, the mirror image will start with

→ Options 1, 2 and 4 are eliminated.

Hence, Option 3) is the correct answer.

Additional Information

• In a mirror image Left changes to right and the right 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.

Q44. Answer: (b) [figure]

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

Detailed Explanation :-

• The line MN is the mirror.

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• The word
ends with
. So, the mirror image will start with
→ Options 1 is eliminated.
• The first letter is
. So, the last letter in the mirror image will be
→ Options 4 is eliminated.
• The second letter is
. So, the third last letter in the mirror image will be
→ Options 3 is eliminated.
Hence, Option 2) is the correct answer.
Additional Information
• In a mirror image Left changes to right and the right changes to left where top 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.

Q45. Answer: (d) 17 : 238

The logic followed here is:
Second number = (First number - 2) × First number
1) 16 : 224 → 16 × (16 - 2) = 16 × 14 = 224
2) 21 : 399 → 21 × (21 - 2) = 21 × 19 = 399
3) 35 : 1155 → 35 × (35 - 2) = 35 × 33 = 1155
4) 17 : 238 → 17 × (15 - 2) = 17 × 15 = 255 ≠ 238
Hence, 17 : 238 is the odd pair.
Alternate MethodThe logic followed here is:
$(\text{First number})^2$ - (First Number × 2) = Second Number
1) 16 × 16 = 256 - (16 × 2) = 224
2) 21 × 21 = 441 - (21 × 2) = 399
3) 35 × 35 = 1225 - (35 × 2) = 1155
4) 17× 17 = 289 - (17 × 2) = 255 ≠ 238
Hence, 17 : 238 is the odd pair.

Q46. Answer: (b) WHOX

The pattern followed here is:
Letters are increasing in the order +1, +3, +5, +7.
On continuing the pattern, we get,
Hence, ‘WHOX’ is the correct answer.

Q47. Answer: (c) XMHD

The pattern followed here is:
First two letters are decreasing by -2 and last two letters are increasing by +2.
On continuing the pattern, we get,
Hence, ‘XMHD’ is the correct answer.

Q48. Answer: (b) 362

The pattern followed here is:
Hence, 362 is the correct answer.

Q49. Answer: (a) 6.5

The logic followed here is:
Hence, '6.5' is the correct answer.

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Q50. Answer: (b) Only conclusions I and II follow

The least possible Venn Diagram is as follows:

Conclusions:

I. Some stones are plastics. → Follows (because some plastics are metals and all metals are stones, hence some stones are plastics.)

II. Some woods are stones. → Follows (because some woods are metals and all metals are stones, hence some woods are stones.)

III. All stones are metals. → Does not follow (because all metals are stones, vice versa is not true.)

Hence, “Only conclusions I and II follow”.

Q51. Answer: (a) iii

FORMULA USED:

S.P. = (1-d1/100) × (1- d2/100) × M.P.

Discount = (M.P. -S.P.)

Discount% = (Discount/M.P.) × 100

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

d1 and d2 are successive discounts respectively

CALCULATION :

Let us assume the Marked price to be Rs100

on considering (i), we have

d1 = 25%, d2 = 25% M.P. = 100

=> S.P. = (1- 25/100) × (1- 25/100) × 100 = 3/4 × 3/4 × 100 = Rs56.25

on considering (ii), we have

discount% = 40 M.P.= 100

=> discount% = (discount/M.P.) × 100

=> 40 = (discount/100) × 100 <=> discount = 40

=> S.P.= (M.P.- discount) = (100 - 40) = Rs60

on considering (iii), we have

Buy 1 get 1 free

=> Marked price of 1 article is assumed to be 100

=> Hence, Marked price of 2 articles = 200

=> Since, 1 article is free. Hence, the customer will get 2 articles in Rs100

=> So, we can say that the Selling price of 1 article = Rs50

on considering (iv), we have

d1= 30%, d2 = 20% M.P. =100

=> S.P. = (1- d1/100) × (1- d2 /100) × M.P. = (1- 30/100)× (1- 20/100) × 100 = 7/10 × 4/5 × 100 = Rs56.

Hence,(iii) has minimum Selling price. So, it is more beneficial to the customer.

Q52. Answer: (d) 8 minutes 51 seconds

Shortcut Trick

Relative speed (same direction) = 80 − 72 = 8 km/h

Relative speed in m/s = 8 × 5/18 = 20/9 m/s

Total distance to cover = 640 + 540 = 1180 m

Time = 1180 ÷ (20/9) = 59 × 9 = 531 seconds

531 seconds = 8 minutes 51 seconds

Therefore The correct answer is 8 minutes 51 seconds.

Alternate Method

Given:

Length of faster train (L1) = 640 m

Length of slower train (L2) = 540 m

Speed of faster train (S1) = 80 km/h

Speed of slower train (S2) = 72 km/h

Formula Used:

Relative Speed (same direction) = S1 − S2

Time = Total Distance ÷ Relative Speed

Train 1: 640m

Train 2: 540m

S1 = 80 km/h

S2 = 72 km/h

Relative Speed = S1 − S2 (Same Direction)

Total Distance = 640 + 540 = 1180 m

Calculations:

=> Total distance to be covered = L1 + L2 = 640 + 540 = 1180 m

=> Relative speed = 80 − 72 = 8 km/h

=> Relative speed in m/s = 8 × (5/18) = 40/18 = 20/9 m/s

=> Time taken = 1180 ÷ (20/9)

=> Time taken = 1180 × 9/20

=> Time taken = 59 × 9 = 531 seconds

=> Time in minutes = 531 ÷ 60 = 8 minutes and 51 seconds

Therefore The correct answer is 8 minutes 51 seconds.

Additional Information

Relative Speed Concepts

When two objects move in the same direction, relative speed is the difference of their speeds. When they move in opposite directions, relative speed is the sum of their speeds.

Unit Conversion

To convert km/h to m/s, multiply by 5/18. To convert m/s to km/h, multiply by 18/5.

Crossing Distance

When a train crosses another train, a bridge, or a platform, the total distance covered is the sum of the lengths of the two objects.

Q53. Answer: (d) 170240

Shortcut Trick

Winner's share = Total Voters × Valid % × Winning %

Winner's share = 3,20,000 × 95% × 56%

Winner's share = 3,20,000 × (95 / 100) × (56 / 100)

Winner's share = 32 × 95 × 56 = 1,70,240

Therefore The correct answer is 1,70,240.

Alternate Method

Given:

=> Total Voters = 3,20,000

=> Invalid Votes = 5% of Total

=> Winner's Share = 56% of Valid Votes

Calculations:

=> Total number of votes = 3,20,000

=> Number of valid votes = 95% of 3,20,000

=> Valid votes = (95 / 100) × 3,20,000 = 3,04,000

=> Winning candidate's votes = 56% of Valid votes

=> Winner's votes = (56 / 100) × 3,04,000

=> Winner's votes = 56 × 3,040 = 1,70,240

Therefore The correct answer is 1,70,240.

Additional Information

Valid and Invalid Votes

Valid votes are those used to determine the winner and loser. Total Votes = Valid Votes + Invalid Votes.

Victory Margin

The margin of victory is the difference between the votes of the winner and the runner-up. Margin = (Winner's % − Loser's %) × Valid Votes.

Successive Percentages

When multiple percentage conditions apply (like invalid then winning share), the final value is found by multiplying successive factors: Final = Initial × (1 − r1/100) × (r2/100).

Q54. Answer: (c) 90%

GIVEN:

Percentage of different types of expenditure in 2020 and 2021

CONCEPT USED:

100% represents Total expenditure in both cases respectively

CALCULATION:

Here, the Percentage of expenditure on Education in 2020 = 25%

=> Total expenditure in 2020 = Rs960000

Hence,

100% = 960000

25% = 240000

Now, the Percentage of expenditure on Food in 2021 = 20%

=>Total expenditure in 2021 = Rs1080000

Hence,

100% = 1080000

20% = 216000

Now, we have to find the percentage of expenditure on food in 2021 to the expenditure on education in 2020

=> (216000/240000) × 100 = 90%

Hence, the required percentage is 90%.

Q55. Answer: (a) √6

FORMULA USED:

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

CALCULATION:

Here, $\sqrt{(2 + \sqrt{3})} + \sqrt{(2 - \sqrt{3})}$ Where, $a = \sqrt{(2 +\sqrt{3})}$, $b = \sqrt{(2 - \sqrt{3})}$

=> Hence, on squaring we get,

=> $(\sqrt{(2 +\sqrt{3})} + \sqrt{(2 - \sqrt{3})})^2 = (\sqrt{(2 + \sqrt{3})})^2 + (\sqrt{(2 - \sqrt{3})})^2 + 2 \times (\sqrt{(2 + \sqrt{3})})\ (\sqrt{(2 - \sqrt{3})}) = 2 + \sqrt{3} + 2 - \sqrt{3} + 2 \times (1) = 6$

=> $(\sqrt{(2 +\sqrt{3})} + \sqrt{(2 - \sqrt{3})})^2 = 6$

=> $(\sqrt{(2 +\sqrt{3})} + \sqrt{(2 - \sqrt{3})}) = \sqrt{6}$

Hence, the required value is √6.

Q56. Answer: (b) -979/360

FORMULA USED:

BODMAS

B	Brackets in order	(),{}.[]
O	Of	of
D	Division	÷
M	Multiplication	×
A	Addition	•
S	Subtraction	•

CALCULATION:

6/5 ÷ 6/5 of 6/5 × 5/6 + 9/4 ÷ 4/5 of 15/2 - { 8 5 over 9 + (4/3 + 5/3 of 6/25)}

=> 6/5 ÷ 6/5 of 6/5 × 5/6 + 9/4 ÷ 4/5 of 15/2 - { 8 5 over 9 + (4/3 + 2/5)}

=> 6/5 ÷ 6/5 of 6/5 × 5/6 + 9/4 ÷ 4/5 of 15/2 - { 77/9 + 26/15}

=> 6/5 ÷ 36/25 × 5/6 + 9/4 ÷ 6 - 463/45

=> 5/6 × 5/6 + 3/8 - 463/45

=> 25/36 + 3/8 - 463/45

=> (77/72) - (463/45)

=> (385 - 3704)/360 = -3319/360 = - 9 79 over 360

Hence, the required value is - 9 79 over 360

Q57. Answer: (c) 86

Shortcut Trick

Identify prime numbers on a dice: 2, 3, and 5.

Sum their corresponding frequencies from the table.

Total frequency of prime numbers = 43 + 33 + 10 = 86.

Therefore The correct answer is 86.

Alternate Method

Given Data from Frequency Table:

Frequency of Outcome 1 = 23

Frequency of Outcome 2 = 43

Frequency of Outcome 3 = 33

Frequency of Outcome 4 = 13

Frequency of Outcome 5 = 10

Frequency of Outcome 6 = 28

Total Throws = 150

Prime numbers in the set {1, 2, 3, 4, 5, 6}:

=> 1 is neither prime nor composite.

=> 2 is a prime number.

=> 3 is a prime number.

=> 4 is a composite number (2 × 2).

=> 5 is a prime number.

=> 6 is a composite number (2 × 3).

Calculation for prime number frequency:

=> Total prime frequency = Freq(2) + Freq(3) + Freq(5)

=> Total prime frequency = 43 + 33 + 10

=> Total prime frequency = 86

Therefore The correct answer is 86.

Additional Information

Definition of Prime Numbers

A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself. The first few are 2, 3, 5, 7, 11...

Special Case of 1

The number 1 is not considered a prime number because it does not have exactly two distinct divisors; it only has one divisor (1).

Probability of Prime Numbers

The experimental probability P(Prime) = (Total frequency of prime outcomes) ÷ (Total number of trials). In this case, P(Prime) = 86 ÷ 150 = 43/75.

Q58. Answer: (b) 185625

CONCEPT USED:

Divisibility by 5 = If the last digit of a number is either 0 or 5, then that number is divisible by 5

Divisibility by 11= If the difference of the sum of alternative digits of a number is divisible by 11, then that number is divisible by 11

CALCULATION:

As 55 = (5 × 11) Hence, any number will be divisible by 55 only when it is divisible by 5 and 11 both

As, in all the options given here, the last digit is 5. Hence, all the numbers in the options are divisible by 5.

So, the numbers are to be divisible by 55. We have to only check the divisibility of 11.

Considering option (1), we have

=> 178765 = (1 + 8 + 6) - (7 +7 +5) = (15 - 19) = -4, which is not divisible by 11.Hence, 178765 is also not divisible by 11

considering option (2), we have

=> 185625 = (1 + 5 + 2) - (8 + 6 + 5) = (8 - 19) = -11, which is divisible by 11.Hence, 185625 is divisible by 11

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Considering option (3), we have
=> 171125 = (1 + 1 +2) - (7 + 1 + 5)= (4 - 13) = -9, which is not divisible by 11. Hence, 171125 is also not divisible by 11
Considering option (4), we have
=> 164485 = (1 + 4 + 8) -(6 + 4 + 5) = (13 - 15) = -2, which is not divisible by 11. Hence,164485 is also not divisible.
As the number 185625 is divisible by 5 and 11 both. Hence, it is divisible by 55.
Hence, 185625 is divisible by 55.

Q59. Answer: (b) 9800

FORMULA USED:
$(a^2 - b^2) = (a + b)(a - b)$
CALCULATION:
Here, we have $99 \times 99 - 1$
Which can be rewritten as $99^2 - 1^2$ in the form of $(a^2 - b^2)$
=> Where, a = 99 and b = 1
=> $(99^2 - 1^2) = (99 + 1)(99 - 1) = 100 \times 98 = 9800$
Hence, the required value is 9800.

Q60. Answer: (a) 48

GIVEN:
Speed = 40km/h
Returning speed = 60 km/h
FORMULA USED:
Distance = Speed × Time
Average speed = Total Distance travelled/Total time taken
CALCULATION:
Let the total distance travelled by 2d
Here, Speed = 40 km/h, Distance while going = d
=> Time = Distance/Speed = d/40 h
Now, returning speed = 60 km/h, Distance while returning = d
=> Time = Distance/ Speed = d/60 h
=> Total Distance traveled = 2d
=> Total Time taken = (d/40 + d/60) h = d/24 h
Now, Average = Total Distance / Total time = 2d ÷ (d/24) = 48 km/h.
Hence, the Average is 48 km/h.

Q61. Answer: (b) 45000

GIVEN:
Present population = 54450
Rate increment per year = 10%
FORMULA USED:
Present population = Initial population × ((100 + R)/100) ^t
Where, R = Rate of increment, t = time in years
CALCULATION:
Here, we have Present population = 54450, Time = 2 years, R = 10%
=> Present population = Initial population × ((100 +R)/100) ^t
=> $54450 = \text{Initial population} \times ((100 + 10)/100)^2$
=> $54450 = \text{Initial population} \times 110/100 \times 110/100$
=> Initial population = $54450 \times 10/11 \times 10/11 = 45000$
Hence, the population two years ago was 45000.

Q62. Answer: (d) 59318

GIVEN:
p = 38

FORMULA USED:

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

CALCULATION:

Here, we have $p(p^2 + 3p + 3)$

$\Rightarrow p(p^2 + 3p + 3) = p^3 + 3p^2 + 3p$ .....(1)

Now add 1 in equation (1). But if we add 1 extra from our side so to balance it, we have to subtract 1 as well

$\Rightarrow p^3 + 3p^2 + 3p + 1 - 1$

Now, this can be rearranged as $(p^3 + 1 + 3p^2 + 3p) - 1$

Now, the above equation is in the form of $a^3 + b^3 + 3a^2b + 3ab^2$ where a= p and b= 1

$\Rightarrow (p + 1)^3 - 1$

Now, the value of p is given as p =38

$\Rightarrow (p + 1)^3 - 1 = (38 + 1)^3 - 1 = 39^3 - 1 = (59319 - 1) = 59318$

Hence, the required value is 59318.

Q63. Answer: (c) ΔJKL

GIVEN:

A triangle ABC

AB = 3.6 cm, BC = 5 cm, CA = 4 cm

angle B = 52.4° ,angle C = 45.5°

CONCEPT USED:

Two triangles are congruent if the corresponding sides are equal and the corresponding angles are equal.

CALCULATION:

In triangle ABC,

AB = 3.6 cm

BC = 5 cm

AC = 4 cm

angle B = 52.4° angle C = 45.5° angle A = 82.5°

Now, considering triangle DEF, we have

DE = 4 cm, EF = 5 cm, DF = 3.6cm

$\Rightarrow$ Since, all the corresponding sides are equal. Hence, triangle DEF is congruent to triangle ABC by SSS (Side -Side -Side)

Now, considering triangle GHI we have

Now, here we have HI = 5cm, angle H = 52.4°, angle I = 45.5°

Since, two angles and one side included between them of triangle GHI is equivalent to the two angles and one side included of the triangle ABC

Hence, triangle GHI is congruent to triangle ABC by ASA(Angle- Side - Angle)

Now, considering JKL, we have,

Now, here we have JK= 3.6 cm, JL = 4 cm angle J = 52.4° Since, angle included between the two sides of triangle JKL is not equal to the angle included between the two sides of triangle ABC Hence, triangle JKL does not follow the property of SAS (Side - Angle - Side) So, JKL is not congruent to ABC

Q64. Answer: (a) Rs. 820

Shortcut Trick

For semi-annual compounding, the rate is halved and the number of periods is doubled.

Rate (r) = 10% ÷ 2 = 5% per half-year | Periods (n) = 1 year × 2 = 2.

Effective Rate for 2 periods of 5% = 5 + 5 + (5 × 5)/100 = 10.25%.

Compound Interest (CI) = 8000 × 10.25% = Rs. 820.

Therefore The correct answer is Rs. 820.

Alternate Method

Given: Principal (P) = Rs. 8,000, Rate (R) = 10% p.a., Time (T) = 1 year.

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

$\Rightarrow$ Since interest is compounded semi-annually:

$\Rightarrow$ Rate (r) = 10% ÷ 2 = 5% per half-year.

$\Rightarrow$ Number of periods (n) = 1 × 2 = 2 half-years.

=> A = 8000 × (1 + 5/100)²
=> A = 8000 × (21/20) × (21/20)
=> A = 20 × 441 = 8820
=> Compound Interest (CI) = 8820 − 8000 = 820.

Q65. Answer: (c) 12.5%

FORMULA USED:
Profit = S.P. - C.P.
Profit% = (Profit/C.P.) × 100
Where, S.P = Selling price, C.P. = Cost price
CALCULATION:
Sudhir sells his items at an 8% profit
=> Profit% =(Profit /C.P.) × 100
=> 8 = (S.P. - C.P.)/C.P. × 100
=> 108 C.P. = 100 S.P. or S.P.= 1.08 C.P.
But when Sudhir uses weights that measure only 720 grams while he claims to measure 750 grams
Hence, C.P. of 720 grams = (720/750) × Original C.P. = 0.96 of original C.P.
So, he is selling goods worth 0.96 at 1.08 C.P.
=> Hence, he makes a profit of (1.08 - 0.96) = 0.12 C.P. on his cost of 0.96 C.P.
=> Profit% = (0.12/ 0.96) × 100 = 12.5
Hence, actual Profit percentage earned by Sudhir is 12.5%.

Q66. Answer: (a) B1

FORMULA USED:
Average = Sum of values/No. of values
CALCULATION:
Average of these four brands in the year 2016-2017
=> Average = (5 + 4 + 10 + 8) /4 = 6.75
Since, B3 = 10 and B4 = 8 has more values than the average
Hence, According to the given Question, values more than average will get a star
=> B3 and B4 get a star.
Average of these four brands in the year 2017-2018
=> Average = (7 + 9 + 11 + 10) /4 = 9.25
Since, B3 = 11 and B4 = 10
Hence, B3 and B4 again gets a star
Average of these four brands in the year 2018-2019
=> Average = (12 + 11 + 10 +9)/4 = 42/4 = 10.5
Since, B1 = 12 and B2 = 11
=> B1 and B2 gets a star
Average of these four brands in the year 2019-2020
=> Average = (14 + 15 + 12 + 15)/4 = 14
Since, B2 = 15 and B4 = 15
=> B2 and B4 gets a star
=> Total star gets by B1 = 1
=> Total star gets by B2 = 2
=> Total star gets by B3 = 2
=> Total star gets by B4 = 3
So, B1 gets a minimum number of stars
Hence, B1 gets a minimum number of stars from 2016-2020.

Q67. Answer: (d) 36 m³

GIVEN:
Length = 12m

Breadth = 6 m
Height = 50cm = 0.5 m
FORMULA USED:
The volume of the cuboid = Length × Breadth × Height
CALCULATION:
Here, Length = 12m, Breadth = 6m, Height = 0.5 m
=> Volume = Length × Breadth × Height = 12 × 6 × 0.5 = 36 m3
Hence, the required Volume is 36 m³.

Q68. Answer: (a) 116.67 gm

GIVEN:
Copper : Bronze = 3 :4
Total alloy = 350 gram
Final ratio after the addition of quantity in Copper = 4:3
CALCULATION:
Here, Copper : Bronze = 3:4
Let, the Copper and Bronze be 3x and 4x and Total alloy given = 350 gram
=> (3x + 4x) = 350
=> 7x = 350 <=> x = 50 gram
=> Copper = 3x = (3 × 50) = 150 gram, Bronze = 4x = (4 × 50) = 200 gram
Now, let the quantity added to the copper be y
According to the given Question,
=> (150 + y) : 200 = 4 :3
=> 800 = 450 + 3y
=> 3y = 350 <=> y = 350/3 = 116.67 gram
Hence, the required quantity to be added to Copper is 116.67 grams.

Q69. Answer: (c) 3

GIVEN:
A = 30°
FORMULA USED:
sin 30° = 1/2
cosec 30° = 2
cot 30° = √3
CALCULATION:
6 sinA +9 cosec A - cot²A over 12 sinA
=> As A = 30°
=> sin 30° = 1/2, cosec 30° = 2, cot 30° = √3
=> 6 ×1/2 + 9 × 2 - (√3)² over 12 × 1/2 = 18/6 = 3
Hence, the required value is 3.

Q70. Answer: (c) 1650 m³

GIVEN:
Dimensions of cuboid = 15m, 22m and 5m
FORMULA USED:
The volume of a cuboid = Length × Breadth × Height
CALCULATION:
Here, Length = 15m, Breadth = 22m and Height = 5m
=> Volume = Length × Breadth × Height
=> Volume = 15 × 22 × 5 = 1650 m³
Hence, Volume of a cuboid is 1650 m³.

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Q71. Answer: (b) 800

GIVEN:

Minimum marks required to pass = 340

CALCULATION:

Here, the minimum marks needed to pass = 340 marks

=> A student secured = 244 marks

=> Student failed by marks = Difference = (340 - 244) = 96 marks

But According to the given Question, a Student failed by 12% of the total marks

=> 12% of the total marks = 96

=> 12/100 of the total marks = 96

=> Total marks = 96 × 100 /12 = 800

Hence, the maximum aggregate a student can get is 800.

Q72. Answer: (c) 8.4 cm

GIVEN:

Area of right-angle triangle = 42 cm^2

Length of one side = 10 cm

FORMULA USED:

Area of right-angle triangle = 1/2 × b × h

Where b and h are the two sides containing the right angle respectively

CALCULATION:

Here, the Area of the right-angle triangle = 42

=> Length of one of its two sides = 10

=> Area = 1/2 × b × h, Where b and h are two sides containing a right angle

=> 42 = 1/2 × 10 × Length of other side

=> Length of the other side = 42/5 = 8.4 cm

Hence, Length of the other side is 8.4 cm.

Q73. Answer: (b) 61/2 days

GIVEN:

A completes the work = 5 days

B completes the work = 10 days

A and B work alternately

CALCULATION:

Complete the work in 5 days

=> A's 1 day work = 1/5

B complete the work in 10 days

=> B's 1 day work = 1/10

=> (A + B)'s work in 2 days = (1/5 + 1/10)= 3/10

In 3 pairs of 2 days they will complete 3/10 × 3 = 9/10

=> Hence, after 3 × 2 = 6 days, 1 - 9/10 = 1/10 work is left which will be done by A alone.

=> A does 1 work in 5 days

=> A does 1/10 work in 5 × 1/10 = 1/2 days

=> Total number of days = 6 + 1/2 = 6 1over 2 days

Hence, they will complete the work in 6 1over 2 days.

Q74. Answer: (c) Rs. 75,000

GIVEN:

Initial discount = 20%

additional discount = 10%

Selling price = Rs54000

FORMULA USED:

S.P. = (1-d1/100) × (1-d2/100) × M.P.

Where, S.P. = Selling price

M.P. = Marked price or listed price

d1 and d2 are successive discounts respectively

CALCULATION:

Here S.P. = Rs54000, d1 = 20% and d2 = 10%

=> S.P. = (1- d1/100) × (1- d2/100) × M.P.

=> 54000 = (1 - 20/100) × (1- 10/100) × M.P.

=> 54000 = (1-1/5) × (1- 1/10) × M.P.

=> 54000 = 4/5 × 9/10 × M.P.

=> M.P. = Rs75,000

Hence, the Marked price of the listed price is Rs75,000.

Q75. Answer: (a) 6

FORMULA USED:

Mean proportion between two numbers a and b = √ab

CALCULATION:

First, take two numbers i.e. 9 and 16

Now, mean proportion = √ab where a = 9 and b = 16

=> Mean proportion = √(9 × 16) = 3 × 4 = 12

Now, take the other two numbers i.e. 4 and 9

=> Mean proportion = √(4 × 9) = 2 × 3 = 6

=> Difference = (12 - 6) = 6

Hence, the required difference is 6.

Q76. Answer: (a) Himalayan mountain range

The correct answer is Himalayan mountain range.

Key Points

• The Himalayas stretch across the northeastern portion of India.

• They cover approximately 1,500 mi (2,400 km) and pass through the nations of India, Pakistan, Afghanistan, China, Bhutan, and Nepal.

• The Himalayan range is bordered in the northwest by the Karakoram and the Hindu Kush ranges.

• The Himalayas have profoundly shaped the cultures of South Asia and Tibet.

Additional Information

• The Purvanchal Range or Eastern Mountains is a sub-mountain range of Himalaya, covering an area of about 94,800 km2 with a population of over four million incorporates Nagaland.

• The Aravalli Range (also spelled Aravali) is a mountain range in Northern-Western India, running approximately 670 km (430 mi) in a south-west direction, starting near Delhi, passing through southern Haryana, Rajasthan and ending in Ahmedabad Gujarat.

• The Pir Panjal Range (Kashmiri: Pīr Pantsāl) is a group of mountains in the Lesser Himalayan region.

• The Himalayas show a gradual elevation towards the Dhauladhar and Pir Panjal ranges.

Q77. Answer: (d) Right to Constitutional Remedies

The correct answer is Right to Constitutional Remedies.

Key Points

• It is one of the fundamental rights listed in the Constitution that each citizen is entitled to.

• It entitles the citizens of India to move the Supreme Court or High Courts for the enforcement of these rights.

• In the Constituent Assembly debate, Dr. B.R Ambedkar said that Article 32 is the heart and soul of the Constitution.

• Article 32 falls under Part III of the Constitution which includes the fundamental rights of individuals.

Additional Information

• Article 32 of the UCMJ requires any service member accused of violating any Punitive Article of the UCMJ to undergo a preliminary hearing.

• An article 32 hearing is required before a defendant can be referred to a general court-martial, in order to determine whether there is enough evidence to merit a general court-martial.

• An Article 32 hearing is a proceeding under the united States Uniform Code of Military justice, similar to that of a preliminary

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hearing in civilian law.

• The Right against Exploitation is enshrined in Articles 23 and 24 of the Indian Constitution.

Q78. Answer: (b) Safranin

The correct answrr is Safranin.

Key Points

• Safranin is a natural stain utilized in histology and cytology.

• Safranin is utilized as a counterstain in some staining conventions, shading cell cores red.

• This is the exemplary counterstain in both Gram stains and endospore staining.

• Safranin ordinarily has the synthetic design displayed at the right (at times depicted as dimethyl safranin).

Additional Information

• Red platelets (RBCs), are likewise alluded to as red cells.

• RBCs take up oxygen in the lungs, or in fish the gills, and delivery it into tissues while just barely getting through the body's vessels.

• Cresol red is a triarylmethane color oftentimes utilized for checking the pH in aquaria.

• Phenolphthalein is much of the time utilized as a pointer in corrosive base titrations.

• Methyl orange is a well known pH marker that is utilized in titration.

Q79. Answer: (b) 80.9 million hectare

The correct answer is 80.9 million hectare.

Key Points

• In 2021, the total forest and tree cover in India is 80.9 million hectares, which is 24.62% of the geographical area of the country.

• Sharing the findings, the Minister informed that the total forest and tree cover of the country is 80.9 million hectares.

• The top three states showing an increase in forest cover are Andhra Pradesh (647 sq km), Telangana (632 sq km) and Odisha (537 sq km).

• An increase in forest cover has been observed in the open forest followed by a very dense forest.

Additional Information

• The top five States are in terms of percentage- Mizoram (84.53%), Arunachal Pradesh (79.33%), Meghalaya (76.00%), Manipur (74.34%), and Nagaland (73.90%).

• Change in Recorded forest Area/Green Wash (RFA/GW) as compared to previous assessment of 2017

• Forest cover within the RFA/GW: a slight decrease of 330 sq km (0.05%).

• Forest cover outside the RFA/GW: there is an increase of 4,306 sq km.

• Recorded forest areas comprise Reserved Forests (RF) and Protected Forests (PF), which have been constituted under the provisions of the Indian Forest Act, 1927.

• There is an overall gain of 3,976 sq km of forest cover in the country as compared with the ISFR 2017 report.

Q80. Answer: (d) Tanvi Shah

The correct answer is Tanvi Shah.

• Tanvi Shah is the primary Indian lady to win a Grammy.

• Tanvi was brought into the world on 1 December 1985 in Tamil Nadu, India.

• She has sung in Tamil, Hindi, and Telugu.

• Her most memorable melody was "Fanaa" for the film Yuva.

• The Grammy Award or just Grammy, is an honor introduced by the Recording Academy to perceive "Extraordinary Achievement in the music business" of the United States.

• The Grammys are the first of the Big Three organizations' significant music grants held every year.

• The principal Grammy Awards function was hung on May 4, 1959, to respect the melodic achievements of entertainers for the year 1958.

• The Grammys had their starting point in the Hollywood Walk of Fame project during the 1950s.

Q81. Answer: (d) Unstoppable: My Life So Far

The correct answer is Unstoppable: My Life So Far.

Key Points

• My Life So Far is a diary composed by proficient tennis player Maria Sharapova distributed on September 12, 2017.

• Maria Yuryevna Sharapova is a Russian previous world No. 1 tennis player.

• She contended on the WTA Tour from 2001 to 2020 and was positioned world No. 1 in singles by the Women's Tennis Association (WTA) for quite some time.

• She is likewise an Olympic medalist, having won silver in ladies' singles at the 2012 London Olympics.

Additional Information

• 'Yet, Seriously' is the fourth independent studio collection by English drummer and vocalist lyricist Phil Collins.It was delivered on 7 November 1989 in the United States

• 'Tough' is a 2000 American hero spine chiller movie composed, delivered, and coordinated by M. Night Shyamalan, and featuring Bruce Willis, Samuel L. Jackson, Robin Wright, Spencer Treat Clark, and Charlayne Woodard.

• Open' is a 2019 Philippine sentiment show movie coordinated by Andoy Ranay featuring JC Santos and Arci Muñoz.

• The film was delivered on September 13, 2019

Q82. Answer: (d) primary sector

The correct answer is primary sector.

Key Points

• Fisheries are the country's single-largest agriculture export, with a growth rate of 6 to 10 percent in the past five years.

• Primary sector includes agriculture, forestry, animal husbandry, fishing, poultry farming, and mining.

• The primary sector of the economy includes any industry involved in the extraction and production of raw materials, such as farming, logging, fishing, forestry and mining.

• The primary sector tends to make up a larger portion of the economy in developing countries than it does in developed countries.

Additional Information

• The tertiary sector covers a wide range of activities from commerce to administration, transport, financial and real estate activities, business and personal services, education, health and social work.

• The tertiary sector is the sector of the economy that concerns services.

• The secondary sector covers the manufacturing of goods in the economy, including the processing of materials produced by the primary sector.

• Secondary sector examples include the plastics sector and textiles sectors.

Q83. Answer: (c) Kuchipudi

The correct answer is Kuchipudi.

Key Points

• Sobha Naidu (1956 - 14 October 2020) was among the preeminent Kuchipudi artists of India and a follower of the eminent expert Vempati Chinna Satyam.

• She dominated the procedure of Kuchipudi and started moving lead jobs in dance-dramatizations very early on

• She performed with her master's group broadly, playing out the jobs of Satyabhama and Padmavati.

• She likewise arranged a few dance-dramatizations.

Additional Information

• The Government of India granted Bharati Shivaji the fourth most noteworthy regular citizen distinction of the Padma Shri, in 2004, for her commitments to Indian traditional dance.

• Aruna Mohanty grants

• Padmashree, Government of India, 2016-17.

• State Sangeet Natak Akademi Award, Government of Odisha, 2014.

• Bharat Bhavan Award, presented on the beneficiary by the President of India.

• Shovana Narayan is a perceived Indian Kathak artist and a profession official with Indian Audit and Accounts Service.

• She acts in India and universally, and has been granted the Padma Shri.

Q84. Answer: (c) West Indies

The correct answer is West Indies.

Key Points

• West Indies is the only country that won the ICC T20 World Cup twice (2012 & 2016).

• Seven tournaments have so far been played, and only the West Indies has won the tournament on multiple occasions.

Additional Information

• ICC T20 World Cup Winner & Runners List

• 2021 Winner. Australia. Captain : Aaron Finch.

• 2016 Winner. West Indies. Captain : Daren Sammy.

• 2014 Winner. Sri Lanka. Captain : Lasith Malinga.

• 2012 Winner. West Indies. Captain : Daren Sammy.

• 2010 Winner. England. Captain : Paul Collingwood.

• 2009 Winner. Pakistan.

• 2007 Winner. India.

• The West Indies won the first two tournaments, Australia has won five, India has won two, while Pakistan, Sri Lanka and England have each won once.

• The West Indies (1975 and 1979) and Australia (1987, 1999, 2003, 2007 and 2015) are the only teams to have won consecutive titles.

• The ICC has its headquarters in Dubai, UAE.

• Shashank Manohar elected unopposed as ICC's first independent chairman.

• Srinivasan became the first chairman of ICC on 26 June 2014.

Q85. Answer: (a) Sattriya

The correct answer is Sattriya.

Key Points

• KALIDAS SAMMAN was given to Kathak artist/master Uma Sharma and Sattriya artist/master Jatin Goswami for the year 2017 and 2018 on Feb 20, 2020 on the initial night of the Khajuraho Dance Festival.

• Jatin Goswami is an Indian artist and choreographer, known as one of the unmistakable examples of the traditional dance type of Sattriya.

• The Government of India granted him the non military personnel distinction of the Padma Shri, in 2008.

• He is likewise a beneficiary of praises like Bharatiyam Samman of the Department of Tourism and Culture, Silpi Divas Award (1994), Sangeet Jyoti Award (2004).

Additional Information

• Deodhani dance is a Shaman society dance from the Indian province of Assam. It tends to be performed either solo or in a gathering.

• Chhau dance, likewise spelled Chhou dance, is a semi old style Indian hit the dance floor with military and people customs.

• The Bagurumba is a customary dance of the native Boro individuals living in the State of Assam and North East India.

• Jatin Goswami is an Indian dancer and choreographer, known as one of the prominent exponents of the classical dance form of Sattriya.

Q86. Answer: (b) 1950

The correct answer is 1950.

Key Points

• The Constitution (Scheduled Castes) Order (Amendment) Bill, 2021 was presented in Lok Sabha by the Minister of State for Social Justice and Empowerment, Mr. Krishan Pal Gurjar, on February 13, 2021.

• The Bill alters the Constitution (Scheduled Castes) Order, 1950.

• The Statement of Objects and Reasons of the Bill expresses that the Bill has been acquainted with give impact to alterations proposed by the territory of Tamil Nadu.

• The 1950 Order additionally incorporates the Kadaiyan people group inside the rundown of advised SCs in the state.

Additional Information

• Parliament has passed the Constitution (Scheduled Tribes) Order (Amendment) Bill, 2022 with Rajya Sabha endorsing it.

• There are three sorts of alterations to the Constitution of India of which second and third kind of changes are represented by Article 368.

• Lok Sabha had proactively passed the Bill.

• Charges looking to revise any remaining arrangements of the Constitution incorporating those counted in the stipulation to article 368(2) are called by the title 'Constitution Amendment Bills'.

• These Bills can be presented in one or the other House of Parliament.

Q87. Answer: (d) Makar Dhwaja Daroga

The correct answer is Makar Dhwaja Daroga.

Key Points

• Makar Dhwaja Darogha was an Indian old style artist and master, known for his aptitude in the traditional dance type of Chhau.

• Darogha was granted Padma Shri in 2011 for his remarkable commitment to the advancement of the Seraikela type of Chhau dance.

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• The Government of India respected him in 2011, with the fourth most noteworthy non military personnel grant of Padma Shri.

• His child Deepak said: "My dad used to prepare devotees across Kolhan district, especially in West Singhbhum and Seraikela-Kharswan.

Additional Information

• Padma Shri 2011-

• Master (Ms.) M.K.Saroja (Art - Dance-Bharatnatyam)

• Shri S.R. Janakiraman (Art - Carnatic Vocal Music),

• Smt. KalamandalamKshemavathy Pavithran (Art - Dance - Mohiniattam)

• Indrani got the Padma Shri in 1969 and the Sangeet Natak Akademi Award in the performing expressions and furthermore the Taraknath Das Award.

• Kedarnath Sahoo was a recipient of the 1981 Sangeet Natak Akademi Award and the Government of India awarded him the fourth highest civilian honour of the Padma Shri, in 2005.

Q88. Answer: (b) Odisha

The correct answer is Odisha.

Key Points

• Odisha Chief Minister Naveen Patnaik on August 17 announced to sponsor Indian Hockey for another 10 years following the teams' spectacular performance at the Tokyo Olympics.

• The Odisha government will sponsor the Indian Hockey teams for 10 more years after the current sponsorship ends in 2023.

• The state government started sponsoring the national hockey teams in 2018.

• The teams have scripted history with their brilliant performance at the Tokyo Olympics.

Additional Information

• Savita Punia won the award for the maximum number of goals saved.

• In the women's team Gurjit Kaur and Vandana Katariya won the award for the maximum number of goals scored.

• Patnaik also gave away the 'player with the maximum number of goals scored' award to Harmanpreet Singh while PR Sreejesh won the award for the player with the maximum number of goals saved.

• Odisha had signed a Rs. 100 crore deal with Hockey India for sponsoring the men's and women's teams for 5 years.

• Naveen Patnaik is an Indian politician serving as the current and 14th Chief Minister of Odisha.

• Sambar, a type of deer which is very unique in Odisha.

Q89. Answer: (c) Ace Against Odds

The correct answer is Ace Against Odds.

Key Points

• Ace Against Odds is the self-portrayal of Sania Mirza.

• Sania Mirza is an indian expert tennis player.

• Sania Mirza came out on top for 6 huge homerun championships in her profession.

• The book is her authority history chronicling her excursion to becoming one of India and world's top female tennis player.

• The book was delivered because of Shah Rukh Khan at a capability in Hyderabad in July 2016.

Additional Information

• Sunny Days: Sunil Gavaskar's Own Story Paperback - 1 January 1976.

• James Boswell composed what many view as the principal current history, The Life of Samuel Johnson, in 1791.

• Sania Mirza has a staggering eight medals at the Asian Games.

• Sunny days is an autobiography of Sunil Gavaskar.

• Unbreakable is an Autobiography of MC Mary Kom.

Q90. Answer: (a) Abhinav Bindra

The correct answer is Abhinav Bindra.

Key Points

• A Shot at History: My Obsessive Journey to Olympic Gold is 2011 collection of memoirs of Indian 2008 Summer Olympics Gold medalist Abhinav Bindra.

• He won the award in the 10-meter air rifle classification, which made him India's very first individual gold medalist.

• The book's ensuing Bangalore discharge in November 2011 was finished by Rahul Dravid and proceeded to get great surveys.

• In this book, Bindra tells that main crave achievement and internal longing assists anybody with accomplishing their fantasies.

Additional Information

• V. Krishnaswamy is a games writer who takes care of seven Olympic Games and various global titles in badminton.

• He is likewise the creator of Sachin: A Hundred Hundreds Now, distributed by HarperCollins.

• Saikhom Mirabai Chanu is an Indian weightlifter. 27-year-old Mirabai Chanu lifted a sum of 201 kg to win the Gold Medal which was likewise India's third decoration after at the continuous CWG 2022.

• Lovlina Borgohain is an Indian fighter. She won a bronze decoration at the 2020 Olympic Games in the ladies' welterweight occasion,

Q91. Answer: (d) Mian Tansen

The correct answer is Mian Tansen.

Key Points

• Tansen, also mention to as Miyan Tan Sen or Ramtanu Pande, was a important body of Hindustani classical music.

• Born in a Hindu brahmin family, he learnt his art in the northwest region of modern Madhya Pradesh.

• He was greatly respected for his dhrupad and raga compositions and for his vocal performances.

• He joined the court of the Mughal emperor Akbar, who was famous for his patronage of the arts.

• Tansen became one of the navratnas (“nine gems”), a collection of the most talented intellectuals and artists in the court. His expertise was honoured with the title Mian (“Master”).

Additional Information

• Bilaskhani Todi is a Hindustani classical raga.

• Swami Haridas was a spiritual poet and classical musician.

• Baiju Bawra (Lit. "Baiju the Insane", born as Baijnath Mishra) was a dhrupad musician from medieval India.

Q92. Answer: (c) 1869

The correct answer is 1869.

Key Points

• In 1869, Dmitri Mendeleev and Lothar Meyer exclusively concocted their own occasional regulation "when the components are organized arranged by expanding nuclear mass, certain arrangements of properties repeat occasionally.

• In 1869, Russian scientific expert Dmitri Mendeleev made the structure that turned into the cutting-edge occasional table, leaving holes for components that were at this point to be found.

• Different researchers had recently distinguished the periodicity of components, yet on March 6, 1869 Dmitri Mendeleev (photograph) introduced the main intermittent table.

• Mendeleev was a Russian scientific expert and teacher, who composed science course books to address his issues.

Additional Information

• Mendeleev's table is critical in light of the fact that it displays for the most part exact qualities for nuclear mass and it likewise contains clear spaces for obscure components.

• The two of them organized the components by their mass and suggested that specific properties occasionally repeat.

• In 1859 two physicists Robert Willhem Bunsen and Gustav Robert Kirchoff found spectroscopy which considered revelation of numerous new components.

• In this manner in 1864, physicist John A. R Newland organized the components in expanding of nuclear loads.

Q93. Answer: (d) Ustad Asad Ali Khan

The correct answer is Ustad Asad Ali Khan.

Key Points

• Ustad Asad Ali Khan

• Asad Ali Khan was an Indian performer who played the culled string instrument rudra veena.

• Khan acted in the style dhrupad and was depicted as the best living rudra veena player in India by The Hindu.

• He was granted the Indian non military personnel honor Padma Bhushan in 2008.

• He was portrayed as the best living rudra veena player in India by The Hindu and lived in Delhi.

Additional Information

• Ustad Rashid Khan was granted the Padma Shri, as well as the Sangeet Natak Akademi Award in 2006.

• Ustad Rashid Khan is an Indian old style artist in the Hindustani music custom.

• Ustad Inayat Hussain Khan was an Indian traditional entertainer, and the pioneer behind Rampur-Sahaswan gharana.

• Ustad Sultan Khan was an Indian sarangi player and traditional entertainer having a place with Sikar Gharana.

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Q94. Answer: (b) Floor exercise

The correct answer is Floor exercise.

Key Points

• The floor practice is an Olympic acrobatic occasion that all kinds of people contend in.

• The opposition region is set up as an enormous square, and gymnasts are expected to execute schedules that take them across the whole floor practice mat, remaining inside the undeniable limits while they tumble, flip, jump, twist and dance.

• The acrobatic occasion performed on the floor is called floor work out.

• The contraption started as a 'free activity' for men, basically the same as the floor exercise of toda.

Additional Information

• The lopsided bars or deviated bars is a creative vaulting mechanical assembly. It is made of a steel outline.

• Vaulting practice in which the competitor jumps over a structure that was initially planned to mirror a pony.

• The equilibrium pillar is a rectangular creative vaulting device and an occasion performed utilizing the contraption.

• The bar is a little, slender shaft which is commonly raised from the floor on a leg or stand at the two finishes.

Q95. Answer: (c) Isaac Newton

The correct answer is Isaac Newton.

Key Points

• Isaac Newton in his book Philosophiae Naturalis Principia Mathematica (1687).

• His law of general attractive energy in three books written in Latin, first distributed 5 July 1687.

• The Principia structures the groundwork of traditional mechanics.

• The Principia is viewed as quite possibly of the main work throughout the entire existence of science.

Additional Information

• Johannes Kepler was a German cosmologist, mathematician, soothsayer, regular logician essayist on music.

• John Philoponus otherwise called John the Grammarian or John of Alexandria.

• Edmond was an English stargazer, geophysicist, mathematician, meteorologist, and physicist. In 1718, he found the appropriate movement of the "fixed" stars.

• Isaac Newton is best know for his theory about the law of gravity, but his “Principia Mathematica” (1686) with its three laws of motion greatly influenced the Enlightenment in Europe.

Q96. Answer: (d) V = A × Ω

Correct answer is V = A × Ω.

Key Points

• Ohm's Law (E = IR) is as fundamentally important as Einstein's Relativity equation ($E = mc^2$) is to physicists.

• When spelled out, it means voltage = current x resistance, or volts = amps x ohms, or V = A x Ω.

• Ohm's law states that the current through a conductor between two points is directly proportional to the voltage across the two points.

• One of the most basic and important laws of electric circuits is Ohm's law.

• Additional Information

• Archimede's Principle states that a body immersed in a fluid experiences an upthrust equal to the weight of the fluid displaced, and this is fundamental to the equilibrium of a body floating in still water.

• Newton's first law states that every object will remain at rest or in uniform motion in a straight line unless compelled to change its state by the action of an external force.

• Newton's laws of motion are three basic laws of classical mechanics that describe the relationship between the motion of an object and the forces acting on it.

Q97. Answer: (b) Sandeep Das

The correct answer is Sandeep Das.

Key Points

• Sandeep Das is an Indian Tabla player and composer currently based in Boston, MA.

• He won the Grammy award for Best World Music Album at the 59th Grammy Awards, 2017.

• He was previously nominated twice for the Grammy Award in 2005 and 2009.

• Sandeep Das from India won at the Grammy Awards in the World Music category in 2017.

Additional Information

• Top 6 Famous Indian Classical Musicians of all Times

• Ustad Zakir Hussain (Tabla)
• Amjad Ali Khan (Sarod Musicians).
• Bismillah Khan (Shehnai Musicians).
• Pandit Ravi Shankar (Sitar Musicians).
• Ustad Asad Ali Khan (Rudra Veena).
• T. H. Vinayakram (Ghatam)

Q98. Answer: (a) Kathak

The correct answer is Kathak.

Key Points

• Sitara Devi is one of the iconic artistes of India.
• She was the recipient of several awards, including the Sangeet Natak Akademi Award, Padma Shri and Kalidas Samman.
• Sitara Devi was an Indian dancer of the classical Kathak style of dancing, a singer, and an actress.
• She is still described as the Kathak queen.

Additional Information

• The greatest exponent of Bharatnatyam is Bala Devi Chandrashekhar.
• Mayadhar Raut is one of the greatest exponent of Odissi classical dance.
• Along with Odissi, Raut studied kathakali, Bharata Natyam, Bhagvat Mela Natakam, and Abhinaya.
• Sobha was among the greatest performers of her generation and one of the best exponents of the Kuchipudi art form.

Q99. Answer: (b) Madhuca insignis

Correct answer is Madhuca insignis.

Key Points

• Madhuca insignis is a species of plant in the family Sapotaceae.
• It is aboriginal to India. It had been declared extinct due to habitat loss.
• However, a Madhuca insignis population has been reborn along the riverside Kumaradhara, in Dakshina Kannada region of Karnataka state, India.
• The area is the advance site for the Kukke I and Kukke II hydel power projects.
• Additional Information
• R. damascena is traditionally used for treatment of abdominal and chest pains, strengthening the heart, menstrual bleeding, digestive problems and constipation.
• The common sunflower is a large annual forb of the genus Helianthus grown as a crop for its edible oil and seeds.
• Bellis perennis, the daisy, is a European species of the family Asteraceae, often considered the archetypal species of the name daisy.

Q100. Answer: (d) Assam

Correct answer is Assam.

Key Points

• Assam Chief Minister Sarbananda Sonowal recently start two schemes known as 'Pragyan Bharati' and 'Bhasha Gourab'.
• Under Pragyan Bharati scheme, funds are provided to college students for purchasing text books while under the Bhasha Gourab scheme, the state government gives financial assistance to 21 Sahitya Sabhas (literary bodies).
• Pragyan Bharati Scooty Scheme was started by the Assam Government, for those candidates who scored at least 60 percent or above in their higher secondary school, the selected candidates will get the free scooter from the government.

Additional Information

• The Chhattisgarh government has decided to launch the education scholarship under the name of Chhattisgarh Mahtari Dulara Yojana.
• Under the scheme, the Chhattisgarh government stipend of rupees 500 per month will be paid to students from classes 1 to 8 and rupees 1000 per month for classes 9th to 12th.
• West Bengal education scheme _An unmarried girl child who is 13 to 18 years old and reading in class VIII/IX/XI/XII will get annual scholarship of Rs. 750/- if annual income of her family is upto Rs. 1.2 Lac.
• School Education and Literacy Department, Govt. of Jharkhand initiated this ambitious programme for children studying in Govt. Schools of Jharkhand.

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