SSC CHSL Tier-1 2021: Official Paper (Held On : 10 June 2022 Shift 2) (Previous Year Paper)

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

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

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ENGLISH LANGUAGE

Q1. Select the INCORRECTLY spelt word.

(a) Harrass
(b) Kinetic
(c) Inkling
(d) Jocular

Q2. The following sentence has been split into four segments. Identify the segment that contains an INCORRECTLY spelt word.

The management is not perturbed about appointing / someone who is knowledgeable but is more inclined / towards filling the position with a person / who will be obsequous and will dance to their tunes.

(a) someone who is knowledgeable but is more inclined
(b) The management is not perturbed about appointing
(c) towards filling the position with a person
(d) who will be obsequous and will dance to their tunes

Q3. Select the option that expresses the given sentence in passive voice.

The vendor sold the vegetables in the market.

(a) The vegetables are sold by the vendor in the market.
(b) The vegetables were being sold by the vendor in the market.
(c) The vegetables were sold by the vendor in the market.
(d) The vendor had sold the vegetables in the market.

Q4. Select the option that can be used as a one-word substitute for the given group of words.

A short text written on tombstone

(a) Celibacy
(b) Epitaph
(c) Calligraphy
(d) Extempore

Q5. 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. Food blogs are often authored by food aficionados, sometimes known as ‘foodies’.

B. The blogger can benefit from it if he or she uses it professionally.

C. Food blogging is food journalism that combines an interest in food, blog writing, and food photography.

D. The greater the popularity of a food blogger, the more options for him/her to monetise his/her work.

(a) DABC
(b) CABD
(c) BDCA
(d) ACBD

Q6. Select the most appropriate meaning of the highlighted idiom.

I was like a fish out of water in the new firm.

(a) Nosy yet firm
(b) Very adventurous
(c) Always comfortable
(d) Being uncomfortable and restless

Q7. Select the INCORRECTLY spelt word.

(a) Argument
(b) Corporation
(c) Surreptious
(d) Deception

Q8. Select the most appropriate option to substitute the underline segment in the given sentence.

Though Mr. Swami ran in debt, he did not stop wasting money.

(a) ran along
(b) ran into
(c) ran to
(d) ran over

Q9. Select the most appropriate ANTONYM of the word given in bold in the following sentence.

He does well, though he's sometimes contemptuous.

(a) humble
(b) wealthy
(c) strong
(d) civilised

Q10. Complete the sentence with an appropriate ANTONYM of the word mentioned in the bracket.

The old house was so _____ (sturdy) that it could be shattered into pieces with a single blow.

(a) fragile
(b) wry
(c) competent
(d) subdued

Q11. Select the most appropriate option to fill in the blank.

He ran _____ the field to catch the ball

(a) across
(b) over
(c) through
(d) besides

Q12. Select the option that will improve the underlined part of the given sentence.

Though many of my family members can cook well, I can cook more well than others.

(a) I can cook best than others
(b) I can cook more good than others
(c) I can cook good than others
(d) I can cook better than others

Q13. Select the most appropriate meaning of the given idiom.

Hobson's choice

(a) To choose the best option
(b) To choose the worst option
(c) A choice forced upon someone
(d) A choice that is prejudiced

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Q14. Select the most appropriate option that can substitute the underlined words in the given sentence.

A strong dislike or fear of people from other countries can never serve the goal of the country's friendly neighbourhood policy.

(a) xerophobia
(b) xenophobia
(c) arachnophobia
(d) cynophobia

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

Pugnacious

(a) Succulent
(b) Germane
(c) Sagacious
(d) Truculent

Q16. Select the option that will improve the underlined part of the given sentence.

Shanti heard the children who were shouting outside

(a) who were screaming outdoors
(b) who were playing outdoor
(c) who were thrashing in the open air
(d) who were flaying in the open air

Q17. From among the words given in bold, select the INCORRECTLY spelt word in the following sentence.

Reena, who devoured foreign coloquialism and trivia, successfully diverted the conversation.

(a) devoured
(b) successfully
(c) coloquialism
(d) trivia

Q18. Select the option that expresses the given sentence in active voice.

The problem will be solved by my friend.

(a) My friend was solved the problem.
(b) My friend will be solving the problem.
(c) My friend will solve the problem.
(d) My friend solves the problem.

Q19. Select the sentence which has no spelling error.

(a) Patience is a nesecessary quality for a teacher.
(b) The soil is necessary for plantation.
(c) Water is a necesary element for life.
(d) Sharp observation is naicessary for a detective.

Q20. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Wise managers _____ opinions, get information, ask advice, act ____ and know the art of _____ responsibilities to the subordinates.

(a) condemn, transnationally, elevating
(b) solicit, transparently, delegating
(c) coerce, translucently, relegating
(d) entrust, transiently, accelerating

Directions

In the following passage, some words have been deleted. Fill in the blanks with the help of the options given. Select the most appropriate option for each blank.

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There are (1)____ ways to empower women. Individual people and the administration must work (2)__ to make this a (3)__. Girl's education must be made mandatory so that they do not become (4)__, uneducated, and unable to support themselves. Women must be (5)____ equal rights and opportunities in all fields, regardless of their gender.

Q21. Select the most appropriate option to fill in blank No. 1.

(a) selected
(b) several
(c) counted
(d) chosen

Q22. Select the most appropriate option to fill in blank No. 2.

(a) anonymously
(b) cooperatively
(c) singlehandedly
(d) forcefully

Q23. Select the most appropriate option to fill in blank No. 3.

(a) reality
(b) dream
(c) truth
(d) fiction

Q24. Select the most appropriate option to fill in blank No. 4.

(a) ignorant
(b) arrogant
(c) experienced
(d) indifferent

Q25. Select the most appropriate option to fill in blank No. 5.

(a) taken
(b) accepted
(c) satisfied with
(d) accorded

GENERAL INTELLIGENCE

Q26. In a certain code language, “CAUTIOUS” is written as “CUAITUOS”, and “DEADLINE” is written as “DAELDNIE”. How will “ECONOMIC” be written in that language?

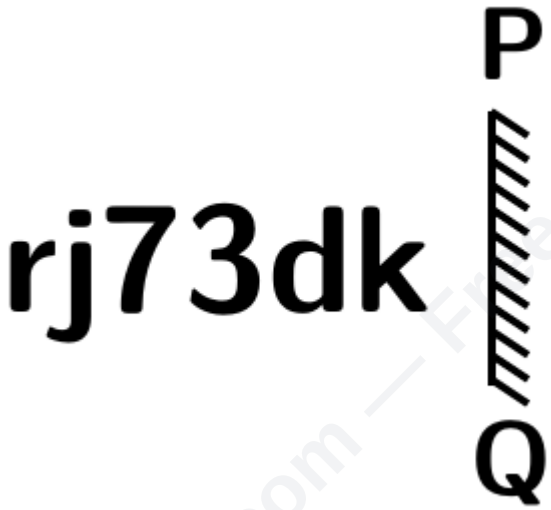
(a) ECOONIMC
(b) EOCOINMC
(c) EOOCNIMC
(d) EOCONIMC

Q27. If 30 July 2015 was Thursday, then what was the day of the week on 03 September 2016?

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

Q28. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

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(a)



(b)



(c)

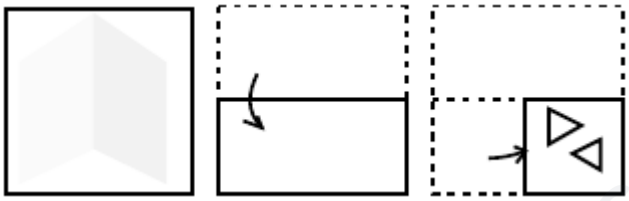


(d)

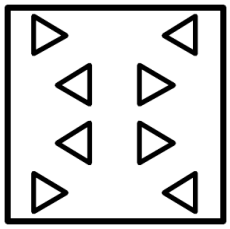


Q29. A paper is folded and cut as shown below. How will it appear when unfolded?

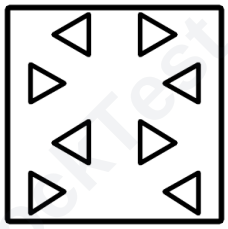
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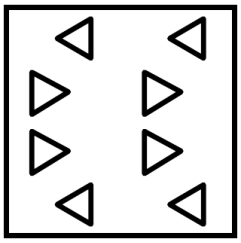
(a)



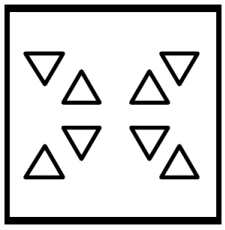
(b)



(c)



(d)



Q30. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 8, 13, 25

Second row: 12, 7, 25

Third row: 9, 15, ?

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

(a) 36

(b) 30

(c) 16

(d) 49

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Q31. Select the setting in which the numbers are related in the same way as the numbers of the following set.

(11, 8, 33)

(33, 5, 924)

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

(a) (22, 17, 156)
(b) (24, 15, 216)
(c) (26, 22, 188)
(d) (21, 17, 87)

Q32. Which letter cluster will replace the question mark (?) to complete the given series?

PUCH, QTDG, RSEF, SRFE, ?.

(a) TQGC
(b) GTCA
(c) TQGD
(d) GDQT

Q33. If M denotes '−', N denotes '÷', O denotes '×' and P denotes '+', then what will come in place of '?' in the following equation?

(72 N 9) O 4 M 26 P 97 M (36 N 2) = ?

(a) 90
(b) 85
(c) 75
(d) 80

Q34. Which of the following numbers will replace the question mark (?) in the given number series?

7350, 7345, 7345, ?, 7360, 7375

(a) 7360
(b) 7335
(c) 7350
(d) 7340

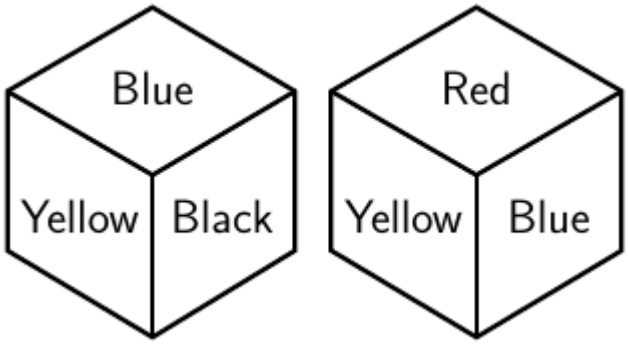
Q35. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

3 * 4 * 2 * 10 * 17 * 2

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

Q36. Two different positions of the same dice are shown, the six faces of which are coloured Red, Green, Blue, Yellow, Black, White.

Select the colour that will be the face opposite to the one coloured Black.



(a) Blue

(b) Red
(c) Green
(d) White

Q37. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row : 162, 91, 71

Second row : 218, 126, 92

Third row : 194, 79, ?

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

(a) 122
(b) 125
(c) 115
(d) 109

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

46 * 16 * 4 * 21 * 72 * 4 * 57

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

Q39. If 15 August 1947 was Friday, then what was the day of the week on 26 January 1950?

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

Q40. Which letter-cluster will replace the question mark (?) to complete the given series?

TCID, YJRO, ?, IXJK, NESV

(a) ANRH
(b) QUDS
(c) ZKEW
(d) DQAZ

Q41. Three Statements are given followed by Three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All stones are bricks.

No cement is a brick.

Some marbles are stones.

Conclusions:

I. Some bricks are marbles.

II. Some cements are stones.

III. No marble is a brick.

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

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Q42. In a certain code language, 'FAMOUS' is coded as '19 21 15 13 1 6', and 'GARDEN' is coded as '14 5 4 18 1 7'. How will 'LEADER' be coded in that language?

(a) 18 4 5 1 6 12
(b) 16 4 5 1 2 15
(c) 18 5 4 1 5 12
(d) 17 5 4 1 8 14

Q43. Which of the following numbers will replace the question mark (?) in the given series?

558, 570, 555, ?, 552, 576

(a) 571
(b) 572
(c) 573
(d) 574

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

27 : 196 :: 19 : 100 :: 17 : ?

(a) 57
(b) 81
(c) 96
(d) 89

Q45. Which of the following numbers will replace the question mark (?) in the given series?

14, 18, 54, 58, 174, 178, ?

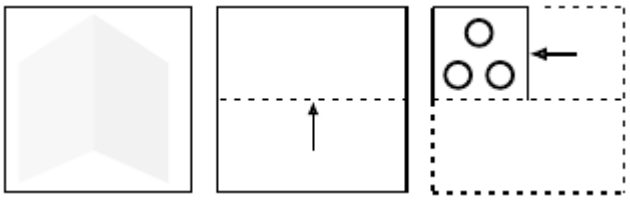
(a) 534
(b) 712
(c) 634
(d) 522

Q46. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

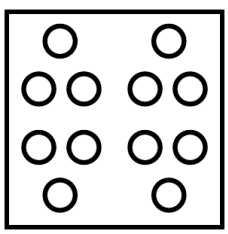
REASON : ROSAEN :: SOCIAL : SAICOL :: TRAVEL : ?

(a) TERLAR
(b) TEVARL
(c) TEVRAL
(d) TEVALR

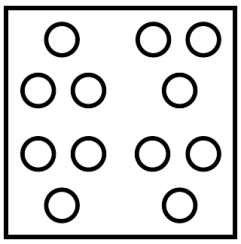
Q47. A paper is folded and cut as shown. How will it appear when unfolded?



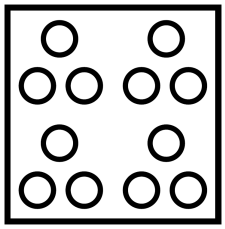
(a)



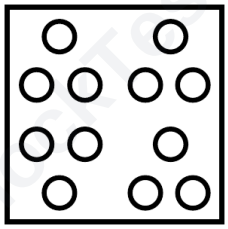
(b)



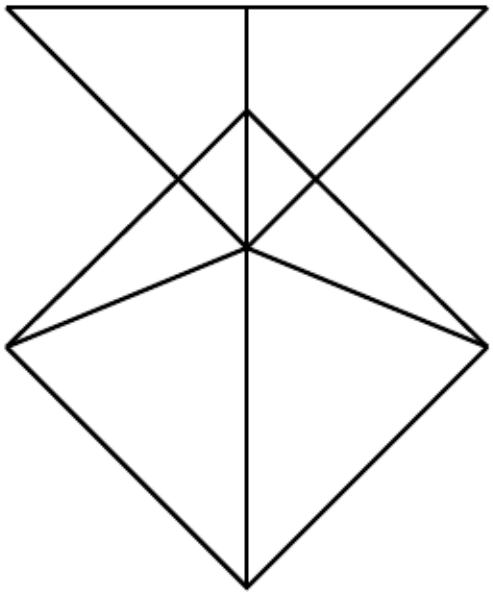
(c)



(d)



Q48. How many triangles are there in the given figure?



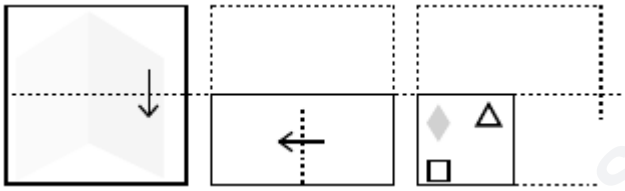
(a) 10
(b) 7
(c) 8
(d) 11

Q49. In a certain code language, 'SCREEN' is written as ‘14e5r3s’ and ‘SHOT’ is written as ‘20o8s’. How will 'CODE' be written in that language?

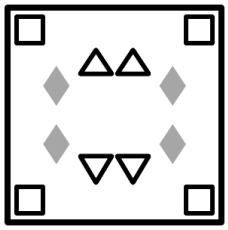
(a) 5e15c
(b) 5d156
(c) 5d15c
(d) 5d19c

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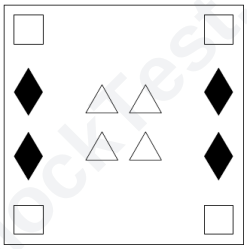
Q50. A paper is folded and cut as shown below. How will it appear when unfolded?



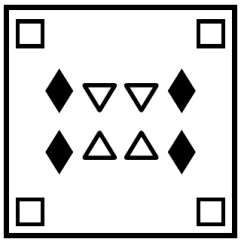
(a)



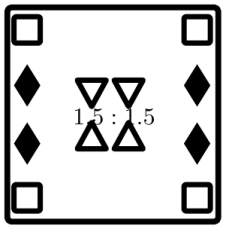
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. Simplify the following expression.

((62 × 62 × 62) - 3(62 × 62 × 22) + 3(62 × 22 × 22) - (22 × 22 × 22))/(8 × 8 × 8)

(a) 225

(b) 1250

(c) 125

(d) 25

Q52. The base of a parallelogram is twice as long as its corrosponding height. If the area of the parallelogram is 144 cm², find the mentioned height.

(a) 2 √2 cm

(b) 6 √2 cm

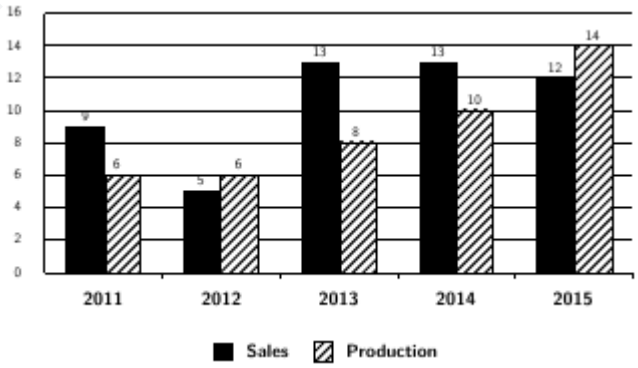
(c) 3 √2 cm
(d) 8 √2 cm

Q53. What is the mean proportional between 64 and 4096?
(a) 512
(b) 192
(c) 128
(d) 8

Q54. A and B together can finish a job in 40 days. A can do the same job on her own in 60 days. How long will B take to do the three-fourth of the same work all alone?
(a) 90 days
(b) 100 days
(c) 80 days
(d) 120 days

Q55. A sum of Rs. 5,000 was deposited for 3 years at 10% per annum, compounded annually. The difference between the interest for 2 years and that for 3 years is:
(a) Rs. 560
(b) Rs. 506
(c) Rs. 650
(d) Rs. 605

Q56. Study the given bar-chart and answer the question given below.
The bar chart shows the production and sales (in thousands) of cars from 2011 to 2015.



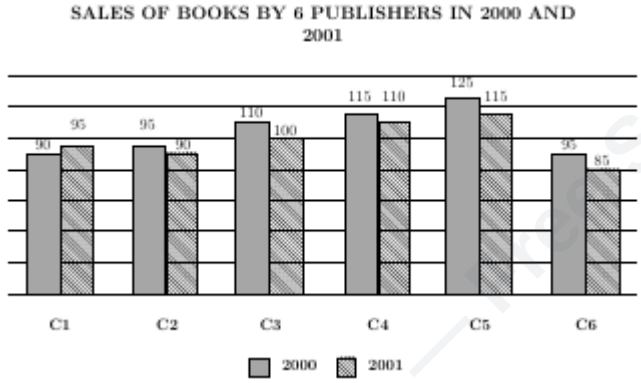
By what percent is the production more than the sales in 2012?
(a) 35
(b) 30
(c) 25
(d) 20

Q57. If cot θ = cot 30° × cot 60° and θ is an acute angle, then 2θ is equal to:
(a) 90°
(b) 60°
(c) 45°
(d) 30°

Q58. A shopkeeper mixes three types of rice costing Rs. 50 per kg, Rs. 60 per kg and Rs. 75 per kg in the ratio of 3 : 1 : 2. The average cost of the mixture per kg is:
(a) Rs. 75
(b) Rs. 65
(c) Rs. 50
(d) Rs. 60

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Q59. The following bar graph shows the sales (in thousands) of books from six different branches of a publishing company in 2000 and 2001.



Answer the following question based on the bar graph:

What is the ratio of the total sales of C3 for both years to the total sales of C4 for both years?

(a) 14 : 15
(b) 12 : 13
(c) 13 : 14
(d) 15 : 14

Q60. If x + 2y = 10 and 2xy = 9, then one of the value of x - 2y is:

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

Q61. One single discount which is equivalent to 20%, 10% and 5% is given by:

(a) 32.60%
(b) 32.80%
(c) 30.60%
(d) 31.60%

Q62. P sold an item to Q at a 20% gain, and Q sold it to R at a loss of 10%. If R bought the item for Rs. 1,080, then at what price did P purchase it?

(a) Rs. 5000
(b) Rs. 3000
(c) Rs. 1000
(d) Rs. 800

Q63. A householder spent his monthly salary of Rs. 7,200 on different items. If he spent Rs. 4,000 on food and Rs. 400 on education, then the central angles respectively are:

(a) 200°, 20°
(b) 50°, 200°
(c) 200°, 60°
(d) 30°, 60°

Q64. Rice worth Rs. 96 per kg and Rs. 104 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 113 per kg, the price of the third variety of rice per kg will be:

(a) Rs. 109
(b) Rs. 126
(c) Rs. 117
(d) Rs. 128

Q65. Successive discounts of 10% and 20% are given on the purchase of a purse. If the price of the purse is Rs. 2,250, find the selling price.

(a) Rs. 1,520
(b) Rs. 1,290
(c) Rs. 1,320
(d) Rs. 1,620

Q66. What is the surface area of a sphere whose diameter is 30 cm?
[Use π = 3.14.]

(a) 1134 cm^2
(b) 2826 cm^2
(c) 1413 cm^2
(d) 1130 cm^2

Q67. Find the compound interest on Rs. 5,50,000 at 7% per annum for 2 years, compounded annually.

(a) Rs. 80,605
(b) Rs. 62,695
(c) Rs. 79,690
(d) Rs. 79,695

Q68. What is the smallest natural number that should be added to 54321 so that the sum is divisible by 6?

(a) 5
(b) 1
(c) 7
(d) 3

Q69. How many spherical balls of radius 5 cm can be made by melting a spherical clay ball having a radius of 15 cm?

(a) 18
(b) 3
(c) 9
(d) 27

Q70. The average monthly expenditure of a family for the first four months is Rs. 13,750, for the next three months is Rs. 11,750 and for the last five months is Rs. 31,750. If the family saves Rs. 15,550 during the whole year, find the average monthly income of the family during the year. (Consider integral part only)

(a) Rs. 21,055
(b) Rs. 22,045
(c) Rs. 23,040
(d) Rs. 22,000

Q71. What is the value of 12 - 8 ÷ 2 - {16 of -2 + 3 × 5 - 4}?

(a) 0
(b) 1
(c) 29
(d) 45

Q72. ‘A’ and ‘B’ are two stations 494 km apart. A train starts from station ‘A’ at 3 p.m. and travels towards station ‘B’ at 83 km/h. Another train starts from station ‘B’ at 4 p.m. and travels towards station ‘A’ at 54 km/h. At what time do they meet?

(a) 7 p.m.
(b) 7 a.m.
(c) 8 p.m.
(d) 9 a.m.

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Q73. One of the angles of a triangle is 108°, and the other two angles are equal. What is the measure of each of these equal angles?

(a) 36°
(b) 72°
(c) 78°
(d) 39°

Q74. For what value(s) of k will the expression $p + 1/9\sqrt{p} + k^2$ be a perfect square?

(a) k = ± 1/8
(b) k = ± 1/9
(c) k = ± 1/21
(d) k = ± 1/18

Q75. In a panchayat election Candidate A secured 30% of the total votes and did NOT qualify by 6 votes. Candidate B secured 40% of the total votes and got 6 votes more than the bare minimum to qualify. The total number of votes were _____.

(a) 140
(b) 160
(c) 100
(d) 120

GENERAL AWARENESS

Q76. Which of the following Tiger Reserves/National Parks and states situated in is INCORRECTLY matched?

(a) Manas Tiger Reserve - Assam
(b) Bandhavgarh National Park - Madhya Pradesh
(c) Sundarbans National Park - Odisha
(d) Corbett National Park - Uttarakhand

Q77. Yamini Krishnamurthy was honoured with the _____ in 1977.

(a) Padma Shri
(b) Kabir Samman
(c) Sangeet Natak Akademi Award
(d) Kalidas Samman

Q78. Which of the following countries never organised Olympic games?

(a) South Africa
(b) Australia
(c) Japan
(d) China

Q79. Who among the following does NOT belong to Rampur Sahaswan Gharana?

(a) Ustad Rashid Khan
(b) Ghulam Mustafa Khan
(c) Ustad Fateh Ali Khan
(d) Ustad Inayat Khan

Q80. Which of the following minerals is NOT found in rivers (alluvial placers) and on the coast, especially beaches (beach placers)?

(a) Tin
(b) Bauxite
(c) Platinum
(d) Gold

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Q81. Who among the followings was an Indian singer of the Khayal genre of Hindustani classical music from Karnataka?

(a) Gangubai Hangal
(b) Pandit Ravi Shankar
(c) Begum Akhtar
(d) Durga Jasraj

Q82. L Bino Devi, Sangeet Natak Akademi Award winner had received the award for his contribution to which of the following dances forms?

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

Q83. Which of the following is a correct pair?

(a) Vijay Kumar Singh - Courage and Conviction
(b) K Natwar Singh - Straight from the Heart
(c) Khushwant Singh - Living Shadows
(d) L K Advani - Matters of Discretion

Q84. In May 2021, the Ministry of Tribal Affairs (MTA) signed an MOU with which organisation to support the digital transformation of tribal schools?

(a) Microsoft
(b) WIPRO
(c) Infosys
(d) Tata Consultancy Services (TCS)

Q85. In 1879, who observed cell division in salamander embryos, where cells divide at fixed intervals?

(a) Albert von Kolliker
(b) Garth L Nicolson
(c) Walther Flemming
(d) Edwin Gorter

Q86. Who among the following is the author of the novel “Mrignayani”?

(a) Chatursen Shashtri
(b) Sumitranandan Pant
(c) Rangeya Raghav
(d) Vrindavan Lal Verma

Q87. In 1976, Natya Tarangini, was founded in the National Capital Region, by world renowned Kuchipudi Dance duo _____.

(a) Seetha Nagajothy and P Nagajothy
(b) Pasumarthy Vithal and Bharati
(c) Radha and Raja Reddy
(d) Jayarama Rao and Vanashri Rao

Q88. Which Article of the Indian Constitution deals with the election of the Vice-President?

(a) Article 66
(b) Article 68
(c) Article 64
(d) Article 62

Q89. The body of animals of the phylum Protozoa, such as Paramecium, Amoeba, Euglena, shows _____ grade organisation.

(a) tissue-organ
(b) protoplasmic

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(c) cell-tissue
(d) cellular

Q90. According to Mendeleev's periodic table, which unknown element of group III had an atomic mass of 68 that was later replaced by gallium?
(a) Eka-manganese
(b) Eka–silicon
(c) Eka–aluminium
(d) Eka–boron

Q91. Which of the following equipment is used in throwing events?
(a) Iron rod
(b) Indian club
(c) Shot Put
(d) Iron ring

Q92. Which of the following is an objective of the Government Budget?
(A) GDP growth
(B) Reallocation of resources
(C) Balanced regional growth
(a) A and C
(b) A, B and C
(c) Only A
(d) A and B

Q93. Which of the following singers from Calcutta was the first artist from the subcontinent to record commercially on the gramophone in November 1902?
(a) Suchitra Mitra
(b) Gauhar Jaan
(c) TH Vinayakram
(d) Lata Mangeshkari

Q94. Which of the following personalities have NOT been nominated for a Grammy Award?
(a) Lata Mangeshkar
(b) Pt Vishwa Mohan Bhatt
(c) T H Vinayakram
(d) A R Rahman

Q95. In 1674, who used a single-lens microscope to examine pond water and observed dozens of protists, which he called 'animalcules', as well as spirogyra, or green algae?
(a) Robert Brown
(b) Robert Hooke
(c) Rudolph Virchow
(d) Anton Van Leeuwenhoek

Q96. Ramali Bin Ibrahim, a Malaysian choreographer of Bharatanatyam and Odissi dance forms of India, received the Padma Shri in which of the following years?
(a) 2018
(b) 2020
(c) 2008
(d) 2014

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Q97. Pradhan Mantri Garib Kalyan Package (PMGKP) Insurance Scheme was extended by the Central government in June 2021. This provides that the families of health workers would get _____ lakh compensation in case of personal accidents.

(a) Rs. 50
(b) Rs. 25
(c) Rs. 45
(d) Rs. 30

Q98. Why does the effective nuclear charge experienced by valence electrons decrease down the group?

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

Q99. In which state/UT, in October 2021, a measure to reduce crime in the society 'Operation Sajag' was launched?

(a) A state in Eastern India
(b) Delhi
(c) Uttar Pradesh
(d) Haryana

Q100. Who among the following is the author of 'A Movable Feast'?

(a) Ernest Hemingway
(b) William Faulkner
(c) George Orwell
(d) Roald Dal

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) Harrass

The correct answer is "Harrass"

Key Points

• In the given options, the incorrectly spelled word is 'harrass.'
• The correct spelling of the word is 'harass.'
• Harass: to continue to annoy or upset someone over a period of time.
• Example: He claimed that the police continued to harass foreign journalists.
• Therefore, the correct answer is option 1.

Additional Information

• Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Kinetic	relating to the motion of material bodies and the forces and energy associated therewith.	A kinetic performer.
Inkling	a feeling that something is true or likely to happen, although you are not certain.	He must have had some inkling of what was happening.
Jocular	used to describe someone who is happy and likes to make jokes.	Michael was in a very jocular mood at the party.

Q2. Answer: (d) who will be obsequous and will dance to their tunes

The correct answer is "who will be obsequous and will dance to their tunes."

Key Points

• In the given sentence, the incorrectly spelled word is 'obsequous'

• The correct spelling of the word is 'obsequious.'

• Obsequious: too eager to praise or obey someone.

• Example: She is embarrassingly obsequious to anyone in authority.

• Therefore, as per the points mentioned above, the correct answer is option 4.

Q3. Answer: (c) The vegetables were sold by the vendor in the market.

The correct answer is "The vegetables were sold by the vendor in the market"

Key Points

• The given sentence is in a declarative form.

• As per the given question, we have to change it to passive voice.

• An action in a sentence can be represented in two ways, namely active and passive voice.

• The passive voice always uses the past participle form of the main verb irrespective of any tense.

• Only the auxiliary verbs depend upon the sentence given in the active voice.

• Example: He reads a novel.

• The above sentence is in active voice.

• Example: A novel is read by him.

• The above sentence is in passive voice.

• Therefore, as per the points mentioned above, the correct answer is option 3.

Q4. Answer: (b) Epitaph

The correct answer is "Epitaph"

Key Points

• In the given options, the most appropriate answer that can be used as a one-word substitute is 'epitaph.'

• Epitaph: a short piece of writing or a poem about a dead person, especially one written on their gravestone.

• Example: Several epitaphs from the past have been preserved in the cathedral.

• Therefore, the correct answer is option 2.

Additional Information

• Let's look at the meanings of the other options.

• Celibacy: The state of not having sex.

• Calligraphy: Beautiful writing, often created with a special pen or brush.

• Extempore: done or said without any preparation or thought.

Q5. Answer: (b) CABD

The correct answer is "CABD"

Key Points

• Sentence C should come first as it is the opening of the paragraph.

• Sentence A is the second sentence as it states that food blogs are authored by food aficionados.

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• Sentence B is the third sentence as it states the benefits of being a food blogger.

• Sentence D comes at the end as it states the popularity of the blogger, and also provides a conclusion of the paragraph.

Additional Information

• The paragraph after the re-arrangement is as follows:

• Food blogging is food journalism that combines an interest in food, blog writing, and food photography. Food blogs are often authored by food aficionados, sometimes known as ‘foodies’. The blogger can benefit from it if he or she uses it professionally. The greater the popularity of a food blogger, the more options for him/her to monetize his/her work.

Q6. Answer: (d) Being uncomfortable and restless

The correct answer is "being uncomfortable and restless."

Key Points

• The most appropriate meaning of the given idiom is 'being uncomfortable and restless.'

• Fish out of water: a situation that causes anxiety because it is completely new or confusing.

• Example: He was something of a fish out of water here.

• Therefore, as per the points mentioned above, we find that the correct answer is option 4.

Additional Information

• Let's look at the usage and meaning of some idioms.

Idioms	Meaning	Example
Pull someone's leg	to make fun of someone.	Relax, I am just pulling your leg.
Once in a blue moon	an act that rarely happens.	He comes to parties once in a blue moon.
Take it with a pinch of salt	not being very serious about something.	You can take the hard words of the people with a pinch of salt.

Q7. Answer: (c) Surreptious

The correct answer is "surreptious"

Key Points

• In the given options, the incorrectly spelled word is 'surreptious.'

• The correct spelling of the word is 'surreptitious.'

• Surreptitious: done secretly, without anyone seeing or knowing.

• Example: A surreptitious glance.

• Therefore, the correct answer is option 3.

Additional Information

• Let's look at the usage and meaning of the other options.

Words	Meaning	Example
Argument	a disagreement	The children had an argument about what game to play.
Corporation	a large company or group of companies that are controlled together as a single organization.	She didn't want to work for a big corporation where everything was so impersonal.
Deception	the act of hiding the truth.	He was found guilty of obtaining money by deception.

Q8. Answer: (b) ran into

The correct answer is, 'ran into'

Key Points

• Into is used to talk about a movement or change in place.

• Example - Katherine ran into Ten at the Coffee House.

• The correct sentence would be, Though Mr. Swami ran into debt, he did not stop wasting money.

Additional Information

• Along means going in a line of something.

• Example - The tables were set along the wall.

• To is used for directions.
• Example - Becky is going to the library.
• Over means being above something.
• Example - Maria sees black clouds over the hills.

Q9. Answer: (a) humble

The answer is, 'humble'

Key Points

• Contemptuous means insulting, disrespectful, or mocking.
• Humble means respectful, or modest.
• Example - Kate doesn't brag, she is humble about being at the top of her class.

Additional Information

• Wealthy means rich.
• Example - Martin is a wealthy man.
• Strong means powerful or muscular.
• Example - Wrestlers are very strong.
• Civilised means educated or mannered.
• Example - Hayley always greets us, she is a civilized girl.

Q10. Answer: (a) fragile

The solution is in Hindi. Read it online.

Q11. Answer: (a) across

The correct answer is, 'across'

Key Points

• Across means on the other end of something.
• Example - Kevin walked across the room.
• The correct sentence would be, He ran across the field to catch the ball.

Additional Information

• Over means being above something.
• Example - Over the trees flew a hummingbird.
• Through means from one end to another.
• Example - My dad took a hike through the woods.
• Besides is used for adding more details.
• Example - I am not interested in it right now, besides, I hate it.

Q12. Answer: (d) I can cook better than others

The correct answer is, 'I can cook better than others.'

Key Points

• Another way of saying 'more well' is better.
• Superlative degree is used for comparison.

Additional Information

• I can cook best than others. 'Best' is used for superlative degrees.
• Example - Pete is the best writer.
• I can cook more good than others. The correct way of saying 'more good' is 'better'.
• Example - Larry drives better than Bianca.
• I can cook good than others. This is an incomplete sentence.

Q13. Answer: (c) A choice forced upon someone

The correct answer is, 'A choice forced upon someone'

Key Points

• It's also known as giving a free choice when there is no actual alternative.
• For example, the boss gave him Hobson's choice, 'Work hard or get fired.'
• Hobson was a man who used to rent his horses, but apparently, people overworked those horses. So Hobson came up with

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some strict rules and choices, that made this idiom.

Additional Information

• Here are some idioms that have people's names in them:

• | Idioms | Meaning | Sentences |

Tom, Dick, and/or Harry	**Anyone**	**This work is so easy, any Tom, Dick, or Harry can do it.**
Plain Jane	Ordinary looking or simple	Even though I was wearing my best dress, I felt like plain Jane.
Moaning Minnie	Someone who complains a lot	Just complete your work and don't be a moaning Minnie.

Q14. Answer: (b) xenophobia

The correct answer is, 'xenophobia'

Key Points

• Xenophobia is also known as nationalism. In this, people show dislike towards people from other countries.

• Example - Luther hates Mia because she is French.

• The correct sentence would be, A xenophobia can never serve the goal of the country's friendly neighbourhood policy

Additional Information

• Xerophobia is a fear of dryness or dry places like deserts.

• Example - We can't take Peter to the desert, he has xerophobia.

• Arachnophobia is a fear of spiders.

• Example - Kiara has arachnophobia.

• Cynophobia is a fear of dogs.

• Example - Mat doesn't play with my dog because he has cynophobia.

Q15. Answer: (d) Truculent

The correct answer is, 'Truculent'

Key Points

• Pugnacious means a person who is quick to fight or argue.

• Example - No one like Martin because he is pugnacious.

• Truculent means a person who is aggressive and defiant.

• Example - Mark is fighting again, he is truculent.

• Both pugnacious and truculent define a person who is aggressive and looking to fight or argue.

Additional Information

• Succulent means juicy or soft.

• Example - Mariam hates succulent dishes.

• Germane means related or connected

• Example - Historical monuments are germane to this topic.

• Sagacious means clever or intelligent

• Example - Sam knows how to deal with tough situations, he is sagacious.

Q16. Answer: (a) who were screaming outdoors

The correct answer is, 'who were screaming outdoors'

Key Points

• Screaming and shouting are used as synonyms sometimes, but shouting involves speaking loudly while screaming involves no proper words.

• Example - The little boy was screaming and then started crying.

• Example - The students were shouting as there was no teacher in the class.

• The correct sentence would be, Shanti heard the children who were screaming outdoors.

Q17. Answer: (c) coloquialism

The correct answer is, 'coloquialism'

• The correct spelling is colloquialism.

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• It means (of language) used in ordinary or familiar conversation; not formal or literary.
• Example - Andy can speak French but he struggles to understand certain colloquialisms.

Additional Information

• Devoured is correct. It means to eat hungrily.
• Example - Pam devoured that whole pizza in a minute.
• Successfully means completing the goal.
• Example - He did it successfully.
• Trivia is a kind of game.
• Example - Ray likes trivia.

Q18. Answer: (c) My friend will solve the problem.

The correct answer is, 'My friend will solve the problem'

Key Points

• The Active and Passive rules say that a subject of a Passive sentence changes to an object in an Active sentence.
• Example - Passive Voice: The car was driven by Jake. Active Voice: Jake drove the car.
• The Simple Future sentences (will + 1st form of the verb) of Active voice are turned into Passive voice sentences by using 'will + be + 2nd form of the verb'.
• Example - Active Voice: Millie will take the ring. Passive voice: The ring will be taken by Millie.

Additional Information

• The following table shows changes in the Active and Passive forms of verb:

Tenses	Verbs in Active form	Verbs in Passive form
Simple Present	Send	Is sent
Simple Past	Sent	Was sent
Simple Future	Will send	Will be sent
Present Continuous	Is sending	Is being sent
Past Continuous	Was sending	Was being sent
Present Perfect	Has sent	Has been sent
Past Perfect	Had sent	Had been sent

Q19. Answer: (b) The soil is necessary for plantation.

The correct answer is, 'The soil is necessary for plantation'

Key Points

• There is no spelling error in this sentence.

Additional Information

• Patience is a nesecessary quality for a teacher. Spelling error - Nesecessary.
• Water is a necesary element for life. Spelling error - Necesary.
• Sharp observation is naicessary for a detective. Spelling error - Naicessary.

Q20. Answer: (b) solicit, transparently, delegating

The correct answer is, 'solicit, transparently, delegating'

Key Points

• Solicit means to request or ask.
• Example - The school is soliciting the parents to be a part of this funding for orphans.
• Transparently means clear or truthful
• Example - All his work and success is transparent.
• Delegating means assigning work or dividing work.
• Example - The boss delegates his work proficiently.
• The complete passage would be - Wise managers solicit opinions, get information, ask advice, act transparently, and know the art of delegating responsibilities to the subordinates.

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Q21. Answer: (b) several

The correct answer is, 'several'

Key Points

• Several means some.

• Example - She likes this store, so now she is buying several things.

• There is used for more than two, but not many.

• The correct sentence would be, There are several ways to empower women.

Additional Information

• Selected means sorted or picked.

• Example - The boss has selected these topics for today.

• Counted means including or adding.

• Example - When I was with a friend, they counted his bill in mine.

• Chosen means picked over other options.

• Example - Ria was chosen as the President of the Movie Club.

Q22. Answer: (b) cooperatively

The correct answer is, 'cooperatively'

Key Points

• Cooperatively means working together or working for a common goal.

• Example - Alex and Jane are working cooperatively on their class project.

• The correct sentence would be, Individual people and the administration must work cooperatively.

Additional Information

• Anonymously means when the person remains unidentified.

• Example - John made an anonymous phone call to tip the police about the ongoing robbery.

• Singlehandedly means when a person does something without taking any help.

• Example - Nikki finalized the project singlehandedly.

• Forcefully means pressurizing.

• Example - The manager forcefully makes the employees work an extra hour every day.

Q23. Answer: (a) reality

The correct answer is, 'reality'

Key Points

• Reality means that exists.

• Example - Child marriage exists in reality.

• The correct sentence would be, Individual people and the administration must work cooperatively to make this a reality.

Additional Information

• Dream means a goal or a strong desire.

• Example - It's my dream to travel to Paris at least once.

• Truth means sincere or honest.

• Example - The man soon revealed the truth.

• Fiction means a made-up story.

• Example - Harry Potter is a fantasy fiction.

Q24. Answer: (a) ignorant

The correct answer is, 'ignorant'

Key Points

• Ignorant means unaware or rude.

• Example - The students were ignorant of the new school rule.

• The correct answer would be, Girl's education must be made mandatory so that they do not become ignorant, uneducated, and unable to support themselves.

Additional Information

• Arrogant means opinionated or full of oneself.

• Example - Judy is arrogant that's why not many people like her.

• Experienced means having knowledge, skills, and expertise.
• Example - Shane Watson is an experienced cricketer.
• Indifferent means ordinary or average.
• Example - She can't complete indifferent work.

Q25. Answer: (d) accorded

The correct answer is, 'accorded'
Key Points
• Accorded means to give or grant.
• Example - Duke was accorded the highest honor.
• The correct sentence would be, Women must be accorded equal rights and opportunities in all fields, regardless of their gender.
Additional Information
• Taken means to take.
• Example - Brian has taken the car for a spin.
• Accepted means to come to terms with or agree.
• Example - The management agreed to the employee's demands.
• Satisfied with means happy.
• Example - Tom seems very satisfied with his new car.

Q26. Answer: (d) EOCONIMC

Explanation :
“CAUTIOUS” is written as “CUAITUOS”
“DEADLINE” is written as “DAELDNIE”
Similarly,
“ECONOMIC" is written as "EOCONIMC"
Hence, EOCONIMC is the correct answer.

Q27. Answer: (d) Saturday

Here, we need to find the day from the given information.
For, 30 July 2015 was Thursday.
Since 2016 is a leap year = 2 odd days.
So, 30 July 2016 = Thursday + 2 = Saturday
Next, we will count the total number of days of the remaining months:
1 (July) + 31 (Aug) + 3 (Sep) = 35 = 5 weeks = 0 odd day.
Thus, 3 Sep 2016 was Saturday.
Hence, the day was Saturday, 3 Sep 2016.
Confusion Points The leap years have 2 odd days.

Q28. Answer: (a) [figure]

Explanation :
In a mirror image left changes to the right and vice versa.
The correct mirror image of the given figure when the mirror is placed at PQ is
Hence, Option 1 is the correct answer.

Q29. Answer: (a) [figure]

When the folder paper is opened, the cuts will appear as follows:
Hence, option 1) is the correct answer.

Q30. Answer: (a) 36

Explanation :
First row : 8, 13, 25
13 - 8 = 5^2 = 25
Second row: 7, 12, 25
7 - 12 = 52 = 25

Similarly,

Third row: 9, 15,?

15 - 9 = 6^2 = 36

Hence, 36 is the correct answer.

Q31. Answer: (b) (24, 15, 216)

Explanation :

(11, 8, 33)

• 11 - 8 = 3

• 3 * 11(first number)

• = 33

(33, 5, 924)

• 33 - 5 = 28

• 28 * 33 (first number)

• = 924

Similarly,

Option 2 follows the pattern

(24, 15, 216)

• 24 - 15 = 9

• 9 * 24 (first number)

• = 216

Hence, (24, 15, 216) is the correct answer.

Q32. Answer: (c) TQGD

Explanation :

Table of English alphabet positional value

The pattern followed here is :

Hence, TQGD is the correct answer.

Q33. Answer: (b) 85

Explanation :

letter	Meaning
M	•
N	÷
O	×
P	•

(72 N 9) O 4 M 26 P 97 M (36 N 2) =

(72 ÷ 9) × 4 - 26 + 97 - (36 ÷ 2)

= 8 × 4 - 26 + 97 - 18

= 32 - 26 +97 - 18

= 129 - 26 - 18

= 85

Hence, 85 is the correct answer.

Q34. Answer: (c) 7350

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

The logic here is: The 1st term is subtracted by 5 to get the 2nd term, the 3rd term is added by 5 to get the 4th term, then the 4th term is added by 10 to get the 5th term, and so on.

Thus, the missing term is 7350.

Hence, the correct answer is 'option 3'

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Q35. Answer: (b) ×, ×, +, =, ×

Here, we need to apply the combination of signs to get the correct equation.

Given: 3 * 4 * 2 * 10 * 17 * 2

First we will check options one by one as below:

1) +, +, +, =, -

=> 3 + 4 + 2 + 10 = 17 - 2

Applying BODMAS rule we will get,

=> 19 = 15, is not possible. This is not true.

2) ×, ×, +, =, ×

=> 3 × 4 × 2 + 10 = 17 × 2

Applying BODMAS rule we will get,

=> 24 + 10 = 34

=> 34 = 34, is possible. This is true.

3) ×, +, =, -, -

=> 3 × 4 + 2 = 10 - 17 - 2

Applying BODMAS rule we will get,

=> 12 + 2 = 10 - 17 - 2

=> 14 = -9, is not possible. This is not true.

4) +, +, =, ×, -

=> 3 + 4 + 2 = 10 × 17 - 2

Applying BODMAS rule we will get,

=> 3 + 4 + 2 = 170 - 2

=> 9 = 168, is not possible. This is not true.

Hence, the combination of signs ' ×, ×, +, =, ×' is used to get correct balanced equation.

Confusion Point: Keep in mind to apply BODMAS rule, while solving these types of problems.

Q36. Answer: (b) Red

Here, we can see that. they have given 2 dices and have 2 common faces.

So, we will arrange the 2nd dice in such a way that it common faces are arranged in same way as 1st dice.

Thus, the red colour will be opposite to black.

Hence, the red colour will be opposite to black colour.

Q37. Answer: (c) 115

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

The logic here is: For each row, the first term is addition of 2nd and 3rd term.

So, 162 = 91 + 71,

218 = 126 + 92,

Thus, for 194 - 79 = 115

Hence, the missing number is 115.

Q38. Answer: (c) =, ×, +, +, ÷, -

Here, we need to apply the combination of signs to get the correct equation.

Given:

First, we will check options one by one as below:

1) ÷, =, -, ×, -, +

=> 46 ÷ 16 = 4 - 21 × 72 - 4 + 57

Applying the BODMAS rule, we will get,

=> 2.875 = 4 - 21 × 72 - 4 + 57

=> 2.875 = 4 - 1533 - 4 + 57

=> 2.875 = -1476, is not possible. This is not true.

2) -, +, ×, =, -, +

=> 46 - 16 + 4 × 21 = 72 - 4 + 57

Applying the BODMAS rule, we will get,

=> 46 - 16 + 84 = 72 - 4 + 57

=> 114 = 125, is not possible. This is not true.

3) =, ×, +, +, ÷, -

=> 46 = 16 × 4 + 21 + 72 ÷ 4 - 57

Applying the BODMAS rule, we will get,

=> 46 = 16 × 4 + 21 + 18 - 57

=> 46 = 64 + 21 + 18 - 57

=> 46 = 46, is possible. This is true.

4) +, =, -, ×, -, +

=> 46 + 16 = 4 - 21 × 72 - 4 + 57

Applying the BODMAS rule, we will get,

=> 46 + 16 = 4 - 1512 - 4 + 57

=> 62 = -1455, is not possible. This is not true.

Hence, the combination of signs ' =, ×, +, +, ÷, -' is used to get the correct balanced equation.

Confusion Point: Keep in mind to apply the BODMAS rule, while solving these types of problems.

Q39. Answer: (d) Thursday

Here, we need to find the day from the given information.

For, 15 Aug 1947 was Friday.

Since 1948 (Leap year), 1949 (Ordinary Year) = 2 + 1 = 3 odd days.

So, 15 Aug 1949 = Friday + 3 = Monday

Next, we will count the remaining number of days of the month:

= 16 (Aug) + 30 (Sep) + 31 (Oct) + 30 (Nov) + 31 (Dec) + 26 (Jan)

= 164 = 23 weeks and 3 odd days.

Thus, 26 Jan 1950 = Monday + 3 = Thursday.

Hence, the day was Thursday 26 Jan 1950.

Confusion point: A leap year has 2 odd numbers of days and a normal year has a single odd day.

Q40. Answer: (d) DQAZ

The pattern followed here is:

On continuing the same pattern, we get,

Hence, ‘DQAZ’ is the correct answer.

Q41. Answer: (a) Only conclusion I follows.

Here, we are given some statements and we need to check which conclusion are true.

First we will draw the venn diagrams of each of the statements as below:

1) All stones are bricks:

2) No cement is a brick:

3) Some marbles are stones:

Thus, combining all the statements we will get,

Next, we will check the conclusion as below:

1) Some bricks are marbles: Some marbles are stones and all stones are bricks. So, some marbles are bricks. This is true.

2) Some cements are stones: Since, no cement is brick and so, no stone is cement. This is not true.

3) No marble is a brick: Since, some marbles are stones and all stones are bricks. So, some marbles are bricks. This is not true.

Hence, only conclusion 1 is true.

Q42. Answer: (c) 18 5 4 1 5 12

Here, we need to find the code of the given word.

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

The logic here is: The alphabets are given their position number as their code but written in opposite direction i.e. from last to first.

F = 6, A = 1, M = 13, O = 15, U = 21, S = 19

G = 7, A = 1, R = 18, D = 4, E = 5, N = 17

Thus, for the word LEADER = 12 5 1 4 5 18. Next, we will write it in opposite direction i.e. 18 5 4 1 5 12

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Hence, the code language is '18 5 4 1 5 12' is the correct answer.

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

Q43. Answer: (c) 573

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

The logic here is: The odd terms are subtracted by 3 to get the odd terms and the even terms are added by 3 to get the even terms.

Thus, the missing number is 573.

Hence, the correct answer is 'option 3'.

Q44. Answer: (b) 81

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

Logic → First number : $[(\text{First number} +1) \div 2]^2$

27 : 196 →

First number = 27

Second number

$= [(\text{First number} +1) \div 2]^2$

$= [(27 +1) \div 2]^2 = [28 \div 2]^2 = 14^2 = 196$

19 : 100 →

First number = 19

Second number

$= [(\text{First number} +1) \div 2]2$

$= [(19 +1) \div 2]2 = [20 \div 2]2 = 102 = 100$

Similarly, for

17 : ? →

First number = 17

Second number

$= [(\text{First number} +1) \div 2]2$

$= [(17 +1) \div 2]2 = [18 \div 2]2 = 92 = 81$

Thus, the missing number is 81.

Hence, the correct answer is 'option 2'.

Q45. Answer: (a) 534

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

The logic here is: The first term is added by 4 to get the 2nd term, then 2nd term is multiplied by 3 to get the 3rd term. Again, this process is repeated.

So, $14 + 4 = 18$, $18 \times 3 = 54$,

$54 + 4 = 58$, $58 \times 3 = 174$,

$174 + 4 = 178$, $178 \times 3 = 534$

Hence, the missing number is 534.

Q46. Answer: (b) TEVARL

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

The logic here is: The 1st and the last letter are same. And all the other letters in middle are written from right to left.

Thus, for the word TRAVEL is; TEVARL

Hence, the code is 'TEVARL' for the given word.

Q47. Answer: (a) [figure]

We unfold the paper step by step:

Now we consider the given options:

Option 1) The pattern matches completely.

Option 2) The pattern is mismatched at the right top corner.

Option 3) The pattern is partially correct, lower half is wrong.

Option 4) The pattern is mismatched at the right bottom corner.

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Hence the correct answer is option 1)

Q48. Answer: (b) 7

In the given figure:
4 triangles are numbered in this figure.
2 triangles can be seen in this figure.
1 triangle is shown here.
Total triangles = 4 + 2 + 1 = 7
Hence the correct answer is option 2

Q49. Answer: (c) 5d15c

The positional values of the English alphabet is as follows:
The pattern followed here is:
'SCREEN' is written as ‘14e5r3s’
‘SHOT’ is written as ‘20o8s’
Similarly, 'CODE' will be written as:
Hence, 'option 3' is the correct answer.

Q50. Answer: (d) [figure]

We unfold the paper step by step:
Now we consider the given options:
Option 1) The triangles are pointed in the wrong directions.
Option 2) Upper triangles are inverted so this option is incorrect.
Option 3) The positions of solid diamonds is wrong.
Option 4) The pattern matches completely.
Hence the correct answer is option 4)

Q51. Answer: (c) 125

Formula Used:
$(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b3$
Calculation:
Here,
a = 62, b = 22
=> $((62 \times 62 \times 62) - 3(62 \times 62 \times 22) + 3(62 \times 22 \times 22) - (22 \times 22 \times 22))/(8 \times 8 \times 8) = (62 - 22)^3/(8 \times 8 \times 8)$
=> $40^3/(8 \times 8 \times 8) = (40 \times 40 \times 40)/(8 \times 8 \times 8)$
=> $5 \times 5 \times 5 = 125$
Therefore The answer to the given term is 125.

Q52. Answer: (b) 6 √2 cm

Given:
Breadth = 2 × Height, Area = 144 cm^2
Concept Used:
Area of parallelogram = Breadth × Height
Calculation :
=> Area = b× h
=> 144 = 2 h × h
=> 72 = h^2
=> h = √72
=> h = 6√2 cm
Hence, the mentioned height of the parallelogram is 6√2 cm.

Q53. Answer: (a) 512

Given:
First number = 64

Second number = 4096

Concept Used:

Mean proportion = √(a× b)

Calculation:

=> b2 = a × c

=> b2 = 64 × 4096

=> b^2 = 262144

=> b = √262144=512

Hence, the mean proportional between 64 and 4096 is 512

Q54. Answer: (a) 90 days

GIVEN:

A and B together finishes work = 40 days

A alone does same work = 60 days

FORMULA USED:

Efficiency = Total work/ No. of days

CALCULATION:

Let us assume the total work to be 120 unit

(you can assume any number but for the sake of calculation, it is advised to take L.C.M of the given numbers.In this case numbers are 40 and 60)

Now, No. of days taken by A and B together to do the work => 40 days

Efficiency of (A + B) = Total work/ No. of days

=> 120/40 = 3 unit/day

Now, No. of days A takes to complete the work = 60 days.

Efficiency of A = 120/60 = 2 unit/day.

Efficiency of B = Efficiency of (A +B) - Efficiency of A

=> (3 - 2) = 1 unit/day.

Now, According to Question,

3/4 of the Total work = 3/4 × 120 = 90 units.

No. of days B alone takes

=> 90/1 = 90 days.

Hence, B alone takes 90 days to complete 3/4th of the work

Q55. Answer: (d) Rs. 605

GIVEN:

Principal = Rs5,000.

Time = 3 years

Rate = 10%

FORMULA USED:

Amount = P × (1 + R/100) ^t

Where,

P = Principal

R = Rate of interest

T = time in years

C.I. = (Amount - Principal)

Where, C.I. = Compound Interest.

CALCULATION:

Here, P= 5,000, T = 3, R = 10%

Amount for 3 years = A3 = P × (1 + R/100) ^t

=> 5000 × $(1 + 10/100)^3$

A3 = 5000 × 11/10 × 11/10 × 11/10 = 6,655.

Now, C.I. for 3 years. = Amount - Principal

=> 6655 - 5000 = Rs 1655.
Amount for 2 years = A2 = 5000 × (1+10/100)²
=> 5000 × 11/10 × 11/10 = 6,050.
C.I. for 2 years = (Amount -Principal)
=> 6050 - 5000 = Rs1050.
Now, Difference = (C.I. for 3 years - C.I. for 2 years)
=> (1655 - 1050) = Rs. 605.
Hence, Difference between the interests for 3 and 2 years is Rs605.

Q56. Answer: (d) 20

Given:
In 2012,
Sales = 5,000
Production = 6,000
Calculation:
Production - Sales = 6,000 - 5,000 = 1,000
=> 1,000/5,000 × 100
=> 1/5 × 100 = 20%
Therefore The production is 20% more than sales.

Q57. Answer: (a) 90°

Shortcut Trick
Given: cot θ = cot 30° × cot 60°
Since cot 30° = √3 and cot 60° = 1/√3
cot θ = √3 × (1/√3) = 1
For acute angle θ, cot θ = 1 => θ = 45°
Value of 2θ = 2 × 45° = 90°
Therefore The correct answer is 90°.
Alternate Method
Given: cot θ = cot 30° × cot 60°
Formula Used: cot 30° = √3; cot 60° = 1/√3; cot 45° = 1
=> cot θ = √3 × (1/√3)
=> cot θ = 1
=> cot θ = cot 45°
=> θ = 45°
=> 2θ = 2 × 45°
=> 2θ = 90°
Therefore The correct answer is 90°.
Additional Information
Trigonometric Ratios of Complementary Angles
cot(90° − θ) = tan θ and tan(90° − θ) = cot θ. This implies cot 30° = tan 60° and cot 60° = tan 30°.
Reciprocal Relationship
Since tan θ × cot θ = 1, if cot θ = 1, then tan θ = 1. This occurs at θ = 45° for acute angles.
Specific Values
cot 0° = undefined, cot 30° = √3, cot 45° = 1, cot 60° = 1/√3, cot 90° = 0.

Q58. Answer: (d) Rs. 60

GIVEN:
Ratio of 3 types of rice = 3:1:2
FORMULA USED:
Average = Sum of values/ Number of values.
CALCULATION:
3 different types of rice are bought in the ratio of 3:1:2. and their per kg cost are Rs50, Rs60, and Rs75 respectively

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Hence,
Cost of first type of rice = (50 × 3) = Rs150
Cost of second type of rice = (60 × 1) = Rs60.
Cost of third type of rice = (75 × 2) = Rs150.
Now, Average = Sum of cost of all types of rice/ No. of total kg bought
Average = (150 + 60 + 150) / (3+ 1 + 2)
=> 360/6 = 60.
Hence, Average cost of mixture per kg is Rs60.

Q59. Answer: (a) 14 : 15

GIVEN:
Sales of book by six publishers in 2000 and 2001
CALCULATIONS:
Sales of books of C3 publishers in 2000 = 110
Sales of books of C3 publishers in 2001 = 100.
=> Total sales of C3 for both years = (110 + 100) = 210.
Sales of books of C4 publishers in 2000 = 115
Sales of books of C4 publishers in 2001 = 110.
=> Total sales of C4 for both years = (115 + 110) = 225.
=> Ratio of total sales of C3 in both years : Ratio of total sales of C4 in both years = 210 : 225 .= 14 :15.
Hence, the required ratio is 14 :15.

Q60. Answer: (a) 8

Given:
x + 2y = 10.
2xy = 9.
FORMULA USED:
$(a - b)^2 = (a + b)^2 - 4ab$
Where, a and b are first and second terms respectively.
CALCULATION:
Now, we know that (a - b)2 = (a + b)2 - 4ab ... (1)
Hence, here a = x and b = 2y and
4 (x × 2y) = 4(9) = 36.
Now, putting these values in (1) we have,
$=> (x - 2y)^2 = (x + 2y)^2 - 8xy$
$=> 10^2 - 36$
=> (100 - 36) = 64.
=> (x - 2y) = 8.
Hence, the value of (x - 2y) is 8.

Q61. Answer: (d) 31.60%

GIVEN:
Successive discounts = 20%, 10% and 5%
FORMULA USED:
Successive discount = X + Y - (XY)/100
Where,
X = First discount
Y = Second discount.
CALCULATION:
Let us take first two discounts i.e. X = 20%, Y = 10%.
=> Successive discount
=> X + Y - (X Y)/100
=> 20 + 10 - (20 × 10)/100 = (30 - 2) = 28%.

Now, Again X = 28%, Y = 5%
Successive discount
=> X + Y - (X × Y)/100
=> 28 + 5 - (140/100) = (33 - 1.4) = 31.6%.
Hence, one single equivalent discount is 31.60%.
Shortcut Trick
Let MP be 100
SP after discount = 100 × 80% × 90% × 95%
=> 68.4.
Hence, Discount = 100 - 68.4 = 31.6
Therefore Discount% = 31.6%

Q62. Answer: (c) Rs. 1000

Shortcut Trick
Let P's cost price = 100 units.
Q's price (at 20% gain) = 120 units.
R's price (at 10% loss on Q's price) = 120 − (10% of 120) = 108 units.
According to the question: 108 units = Rs. 1,080.
Therefore 1 unit = 1,080 ÷ 108 = 10.
P's cost price = 100 × 10 = Rs. 1,000.
Therefore The correct answer is Rs. 1000.
Alternate Method
Given: CP of R = Rs. 1,080, Gain of P = 20%, Loss of Q = 10%
Formula used: Final Price = Initial Price × (100 ± Change1)/100 × (100 ± Change2)/100
P (CP)
+20%
Q (CP)
−10%
R (Rs. 1,080)
Successive Transaction Flow
Let the purchase price for P be Rs. x.
=> Price for Q = x × (120/100) = 1.2x
=> Price for R = 1.2x × (90/100) = 1.08x
=> 1.08x = 1,080
=> x = 1,080 ÷ 1.08
=> x = (1,080 × 100) ÷ 108
=> x = 1,000
Therefore The correct answer is Rs. 1000.
Additional Information
Successive Percentage Change
When a value changes by x% and then by y% successively, the net percentage change is given by: [x + y + (xy/100)]%.
Cost Price Formula
CP = SP × [100 / (100 ± Profit/Loss%)]. This can be used backwards for each transaction.
Effective Profit/Loss
In this problem, the net change is +20% − 10% − (20 × 10)/100 = 20 − 10 − 2 = 8% gain overall from P to R.

Q63. Answer: (a) 200°, 20°

GIVEN:
Monthly expenditure = Rs 7,200.
Expenditure on food = Rs 4,000.
Expenditure on education = Rs 400.
CONCEPT USED:

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Total monthly expenditure = 360^?
CALCULATION:
As, Rs7,200 = 360?
=> Rs1 = 360^?over 7200 = 1over 20^?
Now, spent on food = Rs4000
Hence, central angle on food = 1over 20^? × 4000 = 200?
Now, spent on education = Rs400
Hence, central angle on education = 1over 20^? × 400 = 20?
Hence, central angle on food and education are 200 and 20 degrees respectively.

Q64. Answer: (b) Rs. 126

Given:
Cost of Rice of 1st Variant per kg = Rs. 96
Cost of Rice of 2nd Variant per kg = Rs. 104
The ratio of the mixture of 1st 2nd and 3rd variants = 1 : 1 : 2
Cost of Mixture = Rs. 113
Calculations:
If 1kg of 1st variant is added to 1 kg of 2nd variant and 2 kg of 3 rd variant then
The total quantity of Mixture = 4 Kgs
And so the eq is as follows
(1 × 96) + (1 × 104) + (2 × x) = 4 × 113
=> 96 + 104 + 2x = 452
=> 2x = 452 - 200
=> 2x = 252
=> x = 252/2 = Rs. 126
Therefore The price of the third variety of rice per kg will be Rs. 126.

Q65. Answer: (d) Rs. 1,620

Given:
Successive discounts of 10% and 20%
Marked Price = Rs. 2250
Formula used:
Selling Price (SP) = MP (1 - D%)
Calculations:
Let the MP be Rs. 100
After first discount, price = 100 - 10 = Rs. 90
After second discount, price = 90 (90 × 20)/100 = 90 - 18 = Rs. 72
Total single discount = [(100 - 72)/100] × 100 = 28%
Now Selling Price
SP = 2250 (1 - 28%)
=> SP = 2250 (1 - 0.28)
=> SP = 2250 × 0.72 = Rs. 1620
Therefore The selling price is Rs. 1620.
Shortcut TrickNet successive discount = x + y - xy/100
=> 10% + 20% - (10 × 20)/100
=> 30 - 2 = 28%
So, S.P. = (100 -28)% × 2250
=> (72/100) × 2250 = Rs. 1620

Q66. Answer: (b) 2826 cm²

Given:
Sphere with diameter of 30 cm.
Formula used:

Radius of the sphere = d/2, where d is the diameter.
Surface area of a sphere = $4\pi r^2$
Calculation:
Radius of the sphere = 30/2 = 15cm
Surface area of the sphere = $4 \times 3.14 \times (15)^2 = 2826cm^2$
Therefore The surface area of the given sphere is $2826cm^2$

Q67. Answer: (d) Rs. 79,695

Given:
Principle amount = Rs. 55000
Annual interest rate = 7%
Period = 2 years
Formula used:
Compound interest = $P(1+r/100)^n$-P~~,
where P → principle amount,
r → annual interest rate
n → the number of years.
Calculation:
Compound interest = $550000(1+7/100)^2$ - 550000
=> 629695 - 550000
=> 79695
Therefore The compound interest on Rs. 5,50,000 at 7% per annum for 2 years, compounded annually is Rs.79695.

Q68. Answer: (d) 3

Given:
Find the smallest natural number that should be added to 54321 so that the sum is divisible by 6.
Formula used:
Dividend = Divisor × Quotient + remainder
Calculation:
On dividing 54321 by 6, the remainder is 3.
Therefore The smallest natural number that should be added to 54321 so that the sum is divisible by 6 is 3.

Q69. Answer: (d) 27

Given:
Radius of spherical clay ball = 15 cm
Radius of smaller clay balls = 5 cm
Formula used:
Volume of a sphere of radius r = $4/3\pi r^3$
Calculation:
Volume of the spherical clay ball = $4/3\pi (15)^3$ ...(1)
Volume of each of the smaller balls = $4/3\pi (5)^3$ ...(2)
On dividing (1) by (2),
$(4/3\pi (15)^3)/(4/3\pi (5)^3)=27$
Therefore The number of spherical balls of radius 5 cm that can be made by melting a spherical clay ball having a radius of 15 cm is 27.

Q70. Answer: (b) Rs. 22,045

Given:
The average monthly expenditure of a family for the first four months = Rs. 13,750
for the next three months = Rs. 11,750
the last five months = Rs. 31,750.
saving whole year = Rs. 15,550
Formula used:

Sum of observations = average × no. of observations
Total income = total expenses + savings
Calculation:
Total expenditure of the family for the first four months
=> 13750 × 4 = Rs. 55000
Total expenditure of the family for the next three months
=> 11750 × 3 = Rs. 35250
Total expenditure of the family for the last five months
=> 31750 × 5 = Rs. 158750
The total yearly income of the family
=> 55000 + 35250 + 158750 + 15550
=> Rs. 264550
Average monthly income = 264550/12 = 22045
Therefore The average monthly income of the family during the year is Rs. 22045

Q71. Answer: (c) 29

Given:
12 - 8 ÷ 2 - {16 of -2 + 3 × 5 - 4}
Formula used:
Calculation:
Using the BODMAS rule,
12 - 8 ÷ 2 - {16 of -2 + 3 × 5 - 4}
=> 12 - 4 - { -32 + 15 - 4}
=> 12 - 4 + 21
=> 29
Therefore The value of 12 - 8 ÷ 2 - {16 × -2 + 3 × 5 - 4} is 29.

Q72. Answer: (a) 7 p.m.

Given:
Distance between two stations A and B = 494km.
Speed of the train start from A at 3 p.m. = 83km/h
Speed of the train start from B at 4 p.m = 54km/h
Formula used:
Distance = speed × time taken
Calculation:
The relative speed of train B as seen by train A
=> 83 + 54 = 137 km/h.
Distance traveled by train A in 1 hour (From 3 p.m. to 4 p.m.)
=> 83 × 1 = 83 km.
Distance traveled by train B with respect to train A from this instant
= 494 - 83 = 411 km.
Time taken for train B to meet train A = 411/137=3 hours.
Therefore The two trains meet at (4 + 3) = 7 p.m.

Q73. Answer: (a) 36°

Given:
One of the angles of a triangle = 108°
the other two angles are equal.
Formula used:
The sum of all three angles of a triangle = 180°.
Calculation:
Let the equal angles of the triangle be x.
Then, 108° + x + x = 180°

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=> 2x = 180 - 108 = 72^?

=> x = 36^?

Therefore The measure of each of the equal angles of the given triangle is 36°.

Q74. Answer: (d) k = ± 1/18

Given:

$p + 1/9\sqrt{p} + k^2$

Formula used:

$x^2+2xy+ y^2=(x+y)^2$

Calculation:

For $p + 1/9\sqrt{p} + k^2$ to be a perfect square, $p + 1/9\sqrt{p} + k^2=(\sqrt{p}+1/18)^2$.

And $(\sqrt{p}+1/18)^2= p + 1/9\sqrt{p} + 1/(18^2)$

Therefore, k = ± 1/18.

Therefore The values of k for which the expression $p + 1/9\sqrt{p} + k^2$ is a perfect square are ± 1/18.

Q75. Answer: (d) 120

Given:

Candidate A secured 30% of the total votes

Candidate B secured 40% of the total votes

Formula used:

Value of the part = (percentage of the part)/100 × the value of the whole

Calculation:

Let the total number of votes be x and the bare minimum votes to qualify be y.

Then, with respect to candidate A, 0.3x + 6 = y

And, with respect to candidate B, 0.4x - 6 = y

This means that 0.3x + 6 = 0.4x - 6

Solving for x,

x=12/0.1=120

Therefore The number of votes was 120.

Q76. Answer: (c) Sundarbans National Park - Odisha

The correct answer is Sundarbans National Park - Odisha.

Key Points

• Sundarbans National Park - Odisha, this land results from the strong tide that is a daily reality in Sunderban.

• Sunderban is located in the North and South 24 Pargana Districts of the Indian State of West Bengal.

• Sunderban Biosphere Reserve at a total of 9630 sq km, is the third largest such reserve in India having got this status in 1989.

• It is part of the Sundarbans on the Ganges Delta and adjacent to the Sundarban Reserve Forest in Bangladesh.

• It is located in southwest Bangladesh.

Additional Information

• Manas National Park is a national park, Project Tiger reserve, biosphere reserve, and elephant reserve in Assam, India.

• Bandhavgarh National Park is in the central Indian state of Madhya Pradesh. This biodiverse park is known for its big population of royal Bengal tigers, mainly in the central Tala zone.

• Jim Corbett National Park is a forested wildlife sanctuary in northern India’s Uttarakhand State.

• Rich in flowers and animals, it’s known for its Bengal tigers. Animals, as well as tigers, leopards and wild elephants, roam the Dhikala zone.

Q77. Answer: (c) Sangeet Natak Akademi Award

The correct answer is Sangeet Natak Akademi Award.

Key Points

• Yamini Krishnamurthy's dancing career brought her many awards, as well as the coveted Padma Shree in the year 1968 and the Padma Bhushan in 2001.

• She was also honoured with the Sangeet Natak Akademi Award in 1977.

• Yamini Krishnamurthy debuted in 1957 in Madras.

• She has the honour of being Asthana Nartaki (resident dancer) of the Tirumala Tirupati Devasthanam.

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• She was also known as the "torch bearer" of the Kuchipudi form of dance.

Additional Information

• The 71-year-old Kanaka Raju was awarded the country's fourth civilian honour Padma Shri by the central government for practising, preserving and popularising the Gussadi dance.

• Pt. Venkatesh Kumar has been chosen for the Kabir Samman award for the year 2017 in recognition of his contribution to the field of Hindustani music.

• Hindustani vocalist Pandit Venkatesh Kumar has been chosen for 'Kalidas Samman' given by the Madhya Pradesh Government.

Q78. Answer: (a) South Africa

The correct answer is South Africa.

Key Points

• Africa has yet to host an Olympic Games.

• Other major geographic regions which have never hosted the Olympics include the Middle East, Central Asia, the Indian subcontinent, Southeast Asia, the South Pacific, Central America, and the Caribbean.

• There's only one UN-recognized independent country not eligible for any of the Olympic Games. That's Vatican City.

• Canada, Australia, and Japan have joined the United States in announcing a diplomatic boycott during the games, as have Lithuania and the United Kingdom.

Additional Information

• Australia's kit is green and gold. Australia has hosted the Summer Olympic games twice: in 1956 in Melbourne and in 2000 in Sydney.

• For Prime Minister Shinzo Abe, the 2020 Summer Olympics were to be a demonstration of renewal, one more statement to the world that “Japan is back!” Echoing the 1964 Tokyo Olympics, the themes were to be Japan's technological prowess, its ability to recover from difficulty, and its hospitality.

• In 100 days time, Beijing will suit the first city in the world to host both the Summer and Winter Olympic Games, making it the inaugural dual Olympic city. Possess hosted the Summer Games in 2008, Beijing is now gearing up to host the Winter Games, which start 4 February 2022.

Q79. Answer: (c) Ustad Fateh Ali Khan

The correct answer is Ustad Fateh Ali Khan.

Key Points

• Ustad Fateh Ali Khan, the foremost exponent of Hindustani classical music in Pakistan, is no more. For nearly half a century, he was the patriarch of the Patiala Gharana – one of the six native stylistic schools or lineages – of the Khayal genre of Indian classical music.

• The Patiala Gharana is one of the vocal gharanas (tradition, school, or style of music) of Hindustani classical music, named following the city of Patiala in Punjab, India where it was established.

• Fateh Ali started singing at the age of nine. The duo of Amanat Ali and Fateh Ali had a glorious singing debut in 1945 in Lahore, sponsored by the influential connoisseur, Pandit Jeevanlal Mattoo.

• Thereafter, both brothers toured South Asia extensively and became representatives of the Patiala Gharana across the subcontinent.

Additional Information

• Ustad Rashid Khan is an Indian classical musician in the Hindustani music tradition. He belongs to the Rampur-Sahaswan gharana.

• Ustad Ghulam Mustafa Khan was an Indian classical musician in the Hindustani classical music tradition, belonging to the Rampur-Sahaswan Gharana.

• Ustad Inayat Hussain Khan (1849–1919) was an Indian classical vocalist, and the founder of Rampur-Sahaswan gharana.

Q80. Answer: (b) Bauxite

The correct answer is Bauxite.

Key Points

• The main minerals and metals associated with placer deposits are gold, cassiterite (tin), platinum, diamonds, magnetite, and some gemstones.

• The two most important kinds of placers are stream (alluvial) and beach placers.

• Hence Bauxite is the correct answer.

• Beach placers are formed in sand and gravel deposited along the edge of large bodies of water and are typically found where streams or rivers flow into a large body of water.

• Materials gather as beach placers by continuous wave action and currents.

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Additional Information

• Bauxite is a sedimentary rock with a relatively high aluminium content.

• It is the world's main source of aluminium and gallium.

• Bauxite is a naturally happen, heterogeneous material composed primarily of one or more aluminium hydroxide minerals, plus various mixtures of silica, iron oxide, titania, aluminosilicate, and other impurities in minor or trace amounts.

• The main uses of bauxite are multipurpose covering metallurgy, chemical industries, as raw material in building and road aggregates.

Q81. Answer: (a) Gangubai Hangal

The correct answer is Gangubai Hangal.

Key Points

• Gangubai Hangal was a Hindustani classical singer of the Khyal genre from Karnataka.

• She received a numeral of awards which includes - the Sangeet Natak Akademi Award for Hindustani Music -Vocal, Padma Vibhushan, Padma Bhushan, and Gangubai Hangal belonged to Kirana Gharana.

• She was known for her deep and powerful voice.

• She performed all over India and for All India Radio stations until 1945.

Additional Information

• Ravi Shankar was an Indian sitarist and composer.

• Akhtari Bai Faizabadi, also known as Begum Akhtar, was an Indian singer and actress. Dubbed "Mallika-e-Ghazal", she is considered one of the important singers of ghazal, dadra, and thumri genres of Hindustani classical music.

• Durga Jasraj is an Indian original content producer.

Q82. Answer: (c) Manipuri

The correct answer is Manipuri.

Key Points

• Sangeet Natak Akademi Puraskar is an award given by the Sangeet Natak Akademi, India's National Academy of Music, Dance & Drama.

• It is the highest Indian recognition given to practising artists.

• Shrimati Bino Devi receives the Sangeet Natak Akademi Award for her contribution to Manipuri dance.

• Akademi Ratna and Akademi Puraskar not only symbolize the highest standard of excellence and achievements on a national basis in the field of the performing arts but also recognize the sustained individual work of the highest professional order and contribution to the practice.

Additional Information

• Kuchipudi is one of the eight major Indian classical dances. It originates from a village named Kuchipudi in the Indian state of Andhra Pradesh.

• Odissi is traditionally a dance-drama genre of performance art, where the artist(s) and musicians play out a story, a spiritual message, or religious poem from the Hindu texts, using symbolic costumes, body movement, abhinaya (expressions), and mudras (gestures and sign language) set out in ancient Sanskrit literature.

• Sattriya, or Sattriya Nritya, is a major Indian classical dance.

Q83. Answer: (a) Vijay Kumar Singh - Courage and Conviction

The correct answer is Vijay Kumar Singh - Courage and Conviction.

Key Points

• Courage and Conviction: An Autobiography is an autobiographical book by Indian General Vijay Kumar Singh written with Shiv Kunal Verma.

• It was first published by Aleph Book Company in 2013.

• Courage and Conviction: An Autobiography has received average reviews from critics.

• In it, Singh criticises many situations in which he was elaborate, including alleged corruption in the Indian government and the role of Indira Gandhi in Operation Bluestar.

Additional Information

• Straight From Heart is the autobiography of Kapil Dev. The whole book talks about different incidents in Kapil Dev's life.

• Living Shadows is written by AribamSyam Sharma.

• Inder Kumar Gujral wrote an autobiography titled Matters of Discretion: An Autobiography.

Q84. Answer: (a) Microsoft

The correct answer is Microsoft.

Key Points

• Microsoft with a vision to build an inclusive, skills-based economy, the Ministry of Tribal Affairs (MTA) today inked a Memorandum of Understanding (MOU) with Microsoft to hold up the digital transformation of schools such as Eklavya Model Residential Schools (EMRS) and Ashram Schools.

• Microsoft will make the AI curriculum obtainable to tribal students in both English and Hindi at all EMRS schools under the Ministry to skill educators and students in next-generation technologies including Artificial Intelligence.

• In the first phase, 250 EMRS schools have been adopted by Microsoft, out of which 50 EMRS schools will be given intensive training and 500 master trainers would be trained in the first phase.

Additional Information

• Wipro Limited is an Indian multinational corporation that provides information technology, consulting, and business process services.

• Infosys Limited is an Indian multinational information technology company that provides business consulting, information technology, and outsourcing services.

• Tata Consultancy Services is an Indian multinational information technology services and consulting company with its headquarters in Mumbai.

Q85. Answer: (c) Walther Flemming

The correct answer is Walther Flemming.

Key Points

• Flemming observed cell division in salamander embryos, where cells divide at fixed intervals.

• He developed a way to stain chromosomes to observe them clearly.

• The first person to observe mitosis in detail was a German biologist, Walther Flemming (1843–1905), who is the pioneer of mitosis research and also the founder of cytogenetics (Paweletz 2001).

• Walther Flemming was a pioneer of cytogenetics, a field of science that analyses structures and processes in the cell nucleus under a microscope.

• He was the first person to conduct a systematic study of chromosomes during division and called this process mitosis.

Additional Information

• One of Kölliker's most important contributions was the development of cell theory.

• He helped to confirm the view that cells arise only from other cells and cannot be generated from non-cellular material.

• Garth L. Nicolson is an American biochemist who made a landmark scientific model for cell membranes, known as the Fluid Mosaic Model.

• Gorter and Grendel (1925) experimentally investigated the surface area of lipids.

Q86. Answer: (d) Vrindavan Lal Verma

The correct answer is Vrindavan Lal Verma.

Key Points

• Vrindavan Lal Verma (9 January 1889 - 23 February 1969) was a Hindi novelist and playwright.

• He was honoured with Padma Bhushan for his literary works.

• He received the Soviet Land Nehru Award and the government of India also awarded him for his novel, Jhansi Ki Rani.

• His masterpiece, Mriganayani, set at the end of the 15th century in Gwalior, tells the legend of Man Singh Tomar and his "doe-eyed queen" Mrignayani.

Additional Information

• Acharya Chatursen Shastri was an Indian writer of Hindi literature. He wrote many historical fictions.

• Sumitranandan Pant was an Indian poet. He was one of the most celebrated 20th-century poets of the Hindi language and was popular for romanticism in his poems which were motivated by nature, people, and beauty within.

• Rangeya Raghava, birth name Tirumalai Nambakam Vir Raghava Acharya, was born in Agra, a city of Uttar Pradesh state, India, and lived in Weir village of Bharatpur. One of his popular novels Kab tak pukaroon was made into a television series for Doordarshan.

Q87. Answer: (c) Radha and Raja Reddy

The correct answer is Radha and Raja Reddy.

Key Points

• Natya Tarangini, the Kuchipudi dance institution established in 1976 by the famous Kuchipudi duo Drs. Raja-Radha Reddy in

Delhi, has nurtured innumerable students over the past decades, as well as their first disciple and the leading exponent Kaushalya Reddy, the Artistic Director of the famed institution today.

• Kuchipudi is a dance-drama performance, with its roots in the ancient Hindu Sanskrit text of Natya Shastra.

• Evidence of Kuchipudi's existence in an older version are found in copper inscriptions of the 10th century, and by the 15th century in texts such as the Machupalli Kaifat.

• The traditional Kuchipudi was performed by a male troupe.

Additional Information

• Guru Seetha Nagajothy is a reputed Kuchipudi Guru. She was trained in the Gurukul system from the Kuchipudi Maestro Padmabhushan Dr. VempatiChinna Satyam.

• Dr. Bharativithal and Dr. Vithal, Kuchipudidance couple.

• Guru Jayarama Rao is known today as one of the foremost Gurus and performers of Kuchipudi style, the vibrant classical dance of Andhra Pradesh, India.

Q88. Answer: (a) Article 66

The correct answer is Article 66.

Key Points

• According to Article 66 of the Constitution of India, the Vice-President is elected by the members of the Electoral College consisting of the members of both Houses of Parliament in accordance with the system of proportional representation by means of the single transferable vote.

• Article 66 of the Constitution of India states the manner of election of the vice president.

• Whenever there is a vacancy in the office of the Vice President, the President shall nominate a Vice President who shall take office upon confirmation by a majority vote of both Houses of Congress.

• Article 58 of the constitution sets the principal qualifications one must meet to be eligible for the office of the president. A president must be a citizen of India. of 35 years of age or above.

Additional Information

• Article 68_ An election to fill a vacancy caused by the expiration of the term of office of Vice-President shall be completed before the expiration of the term.

• Article 64_The Vice-President shall be ex officio Chairman of the Council of States and shall not hold any other office of profit.

• Article 62_An election to fill a vacancy caused by the expiration of the term of office of President shall be completed before the expiration of the term.

Q89. Answer: (b) protoplasmic

The correct answer is protoplasmic.

Key Points

• Protozoa is a phylum having unicellular heterotrophs. It comes under Kingdom Protista.

• A protozoan body consists of only a mass of protoplasm, so they are called acellular or non-cellular animals. Grade of organization: protoplasmic grade of organization.

• Single-cell performs all the vital activities thus the single cell acts like a whole body. The body of protozoa is either naked or covered by a pellicle.

• Protozoa can be divided into four phyla based on their locomotion: Mastigophora, Sarcodina, Ciliophora, and Sporozoa.

Additional Information

• Tissue-organ_ The organ level of organization is when two or more tissues work together for a specific function. For example, the bladder consists of an inner lining of epithelial tissue, bound by various connective tissues to (smooth) muscle.

• Most organisms have functional parts with five levels: cells, tissues, organs, organ systems and whole organisms.

• "Cellular organization" is the defining property in living organisms.

Q90. Answer: (c) Eka–aluminium

The correct answer is Eka–aluminum.

Key Points

• It was later discovered as Aluminium with an atomic weight of 68 and an atomic number of 31. Germanium was named as Aka-Silicon first and was later discovered.

• Eka prefix means that element occurring after suffix atom. It Means Eka aluminium is Gallium and Eka silicon is Germanium.

• One of these elements was the element now called Germanium; Mendeleev called it “eka-silicon,” meaning “beyond silicon” on his table.

• The existence of germanium was predicted by Dimitri Mendeleev in 1869 from a blank space in his periodic table beneath silicon; hence the term eka-silicon.

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Mendeleev's Given Name	Modern Name
Eka-aluminium	Gallium
Eka-boron	Scandium
Eka-silicon	Geramanium
Eka-manganese	Technetium
Tri-manganese	Rhenium
Dvi-tellurium	Polonium
Divi-caesium	Francium
Eka-tantalum	Protactinium

Additional Information

• Ekamanganese (uncountable) (chemistry) is the name given by Dmitri Mendeleev to the predicted element (technetium) lying below manganese in the periodic table.

• Eka-aluminium was the name given by Mendeleev to the undiscovered element which now exists by the name of Gallium. Gallium belongs to group 13 of the periodic table. Its atomic number is 31 with the sign Ga. It is a soft, silvery metal at standard temperature and pressure.

• Ekaboron (uncountable) (chemistry) is the name given by Dmitri Mendeleev to the predicted element (scandium) lying below the boron in the periodic table.

Q91. Answer: (c) Shot Put

The correct answer is Shot Put.

Key Points

• The shot put is a track and field event involving "putting" a heavy spherical ball the shot as far as possible.

• The shot put competition for men has been a part of the modern Olympics since its revival in 1896, and women's competition began in 1948.

• Shot Put is played with a heavy spherical object popularly known as a shot. The aim is to throw the shot-put as far as possible through a pushing action.

• It requires immense muscular strength and a good balance in your body.

Additional Information

• The four standard throwing events:

• Shot put,

• Discuss,

• Hammer,

• Javelin.

• Note: All involve the use of implements of various weights and shapes that are hurled for distance.

Q92. Answer: (b) A, B and C

The correct answer is A, B and C.

Key Points

• The various objectives of the government budget are:

• Reallocation of Resources.

• Reducing inequalities in income and wealth.

• Economic Stability.

• Management of Public Enterprises.

• Economic Growth.

• Reducing regional disparities.

• Hence A, B, and C statements are correct.

Additional Information

• A government budget is a document prepared by the government and/or other political entity presenting its anticipated tax revenues and proposed spending/expenditure for the coming financial year.

• In most parliamentary systems, the budget is presented to the legislature and often requires the approval of the legislature.

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• The three types of annual Government budgets based on estimates are:

• Surplus Budget.

• Balanced Budget.

• Deficit Budget.

Q93. Answer: (b) Gauhar Jaan

The correct answer is Gauhar Jaan.

key points

• Gauhar Jan, the first artist from the subcontinent to record commercially on the gramophone in November 1902, was a diva and superstar of her time.

• The gramophone forerunner of the modern record player, tape and CD player. In 1877 Thomas Edison (1847–1931) invented the sound machine he called the phonograph.

• Kolkata-based singer Gauhar Jaan was the first Indian and Bengali artist to record her own songs, and gained instant fame.

Additional Information

• In 1887, Emil Berliner invented the gramophone, an improved version of Edison's phonograph.

• The man who introduced Bengal to the world of gramophones was FW Gaisberg, the first recording engineer of the Gramophone Company.

• The first entrepreneur in manufacturing and marketing gramophones was M L Shaw (Anglicized from Manick Lal Saha), originally a harmonium manufacturer.

Q94. Answer: (a) Lata Mangeshkar

The correct answer is Lata Mangeshkar.

Key Points

• Lata Mangeshkar Ji has not been awarded by Grammy award.

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

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

• Lata Mangeshkar was awarded Bharat Ratna, Dada Sahab Phalke award, Padma Bhushan, Padma Vibhushan, and many more.

Additional Information

• A Grammy Award is any of a series of awards presented each year in the United States by either the National Academy of Recording Arts & Sciences or the Latin Academy of Recording Arts & Sciences.

• The Grammys, as they are commonly known, are meant to recognize spectacular work in the music industry.

• The Grammy Award, or just Grammy, is an award presented by the Recording Academy to recognize "Outstanding Achievement in the music industry" of the United States.

• The trophy depicts a gilded gramophone. The Grammys are the first of the Big Three networks' major music awards held annually.

Q95. Answer: (d) Anton Van Leeuwenhoek

The correct answer is Anton Van Leeuwenhoek.

Key Points

• Anton Van Leeuwenhoek is universally acknowledged as the father of microbiology.

• He discovered both protists and bacteria.

• In 1674 he likely observed protozoa for the first time and several years later bacteria.

• Those “very little animalcules” he was able to isolate from different sources, such as rainwater, pond, well water, and the human mouth and intestine. He also calculated their sizes.

Additional Information

• Robert Brown FRSE FRS FLS MWS was a Scottish botanist and paleobotanist who made important contributions to botany largely through his pioneering use of the microscope.

• Robert Hooke FRS was an English polymath active as a scientist and architect, who, using a microscope, was the first to visualize a micro-organism.

• Rudolf Ludwig Carl Virchow was a German physician, anthropologist, pathologist, prehistorian, biologist, writer, editor, and politician.

• He is known as "the father of modern pathology" and as the founder of social medicine, and to his colleagues, the "Pope of medicine".

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Q96. Answer: (a) 2018

The correct answer is 2018.

Key Points

• Datuk Ramli bin Ibrahim is a Malaysian choreographer and a classical ballet dancer.

• In 2018, the Government of India gave him Padma Shri for his contribution to the Odissi dance form.

• He was the student of another renowned guru Adyar Lakshaman of Bharatnatyam.

• In 2007 he set up the Sutra foundation in Malaysia.

Additional Information

• Ramli was among 10 non-Indian nationals to receive the prestigious award in conjunction with India's Republic Day, which is celebrated then.

• Padma Shri award:

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

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

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

• All persons without distinction of race, occupation, position or sex are eligible for these Awards.

Q97. Answer: (a) Rs. 50

The correct answer is Rs. 50.

Key Points

• The Pradhan Mantri Garib Kalyan Yojana / Package is a comprehensive relief package of Rs 1.70 Lakh Crore Yojana for the poor to help them fight the battle against Corona Virus.

• This was announced in March 2020, to reach out to the poorest of the poor, with food and money in hand. That they do not face difficulties in buying essential supplies and meeting essential needs.

• The package included the measures listed hereunder from 30th March 2020:

• 20 crore women Jan Dhan account holders to get Rs 500 per month for the next three months.

• Increase in MNREGA wage to Rs 202 a day from Rs 182 to benefit 13.62 crore families.

• An ex-gratia of Rs 1,000 to 3 crore poor senior citizens, poor widows, and poor disabled.

Additional Information

• Other government yojna by the Government of India:

• Rashtriya Swasthya Bima Yojana

• Pradhan Mantri Jeevan Jyoti Bima Yojana(PMJJBY)

• Pradhan Mantri Suraksha Bima Yojana(PMSBY)

• Life Cover under Pradhan Mantri Jan Dhan Yojana (PMJDY)

• Varishtha Pension Bima Yojana.

• Pradhan Mantri Fasal Bima Yojana(PMFBY)

• Pradhan Mantri Vaya Vandana Yojana(PMVVY

Q98. Answer: (d) outermost electrons are farther away from the nucleus

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

key points

• Down the group, the effective nuclear charge experienced by the valence electrons decreases as the outermost electrons move further away from the nucleus.

• These electrons can be easily lost.

• Thus, the metallic property decreases in a period and moves down the group.

• The effective nuclear charge increases in period from left to right as the table unfolds.

Additional Information

• The word "effective" is used because shielding effect The negatively charged electron prevents the higher energy electrons from experiencing the full nuclear charge of the nucleus due to the repulsive effect of the inner layer.

• The effective nuclear charge experienced by an electron is also called the core charge.

• A higher effective nuclear charge causes greater attraction for electrons, pulling the electron cloud closer to the nucleus resulting in a smaller atomic radius.

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Q99. Answer: (b) Delhi

The correct answer is Delhi.

Key Points

• 'Operation Sajag' was launched to prevent incidents of street crime in Delhi.

• To curb incidents of street crime, the North West District Police launched Operation Sajag on 4 October.

• Police said the initiative includes field-dominated exercises, special searches and in-depth checks on pickets.

• The North West District Delhi Police initiated it. The initiative includes area domination exercises, intensive checks on pickets and special searches.

Additional Information

• Some important facts about Delhi. (September 2022)

• Chief Minister: Arvind Kejriwal.

• Lieutenant Governor: Vinay Kumar Saxena

• Deputy Chief Minister: Manish Sisodia.

• Members in Legislative Assembly: 70

Q100. Answer: (a) Ernest Hemingway

The correct answer is Ernest Hemingway

Key Points

• A Moveable Feast is a 1964 memoir Belles-Letres by American author Ernest Hemingway.

• The book is about his years as a struggling ex-pat journalist and author in Paris during the 1920s. It was published posthumously.

• Hemingway left behind a substantial amount of manuscripts, some of which have been published.

• A Moveable Feast, a gripping memoir of his years in Paris (1921–26) before he became famous, was released in 1964.

Additional Information

• Ernest Miller Hemingway was an American novelist, short-story writer, and journalist.

• His economical and understated style—what he called the iceberg theory— had a strong influence on 20th-century fiction, while his adventurous lifestyle and public image earned him praise from later generations.

• He was best known for novels such as The Sun Also Rises, A Farewell to Arms, For Whom the Bell Tolls and The Old Man and the Sea, which won the Pulitzer Prize in 1953.

• In 1954, Hemingway won the Nobel Prize. He committed suicide on July 2, 1961, in Ketchum, Idaho.

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