SSC CHSL Tier-1 2023: Official Paper (Held On: 09 Aug, 2023 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2023 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. What should come in place of the question mark (?) in the given series?

5 11 17 ? 29 35

(a) 23
(b) 22
(c) 24
(d) 25

Q2. What should come in place of X in the given series?

22 31 49 76 112 X

(a) 152
(b) 157
(c) 159
(d) 149

Q3. DM 12 is related to HQ 17 in a certain way. In the same way, TS 19 is related to XW 24. To which of the following is KG 17 related following the same logic?

(a) MK 20
(b) OK 22
(c) NK 22
(d) NJ 21

Q4. Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order.

ZAM, XCK, VEI, TGG, ?

(a) SHH
(b) RIH
(c) RIE
(d) SIT

Q5. In a certain code language,

A + B means 'A is the father of B'

A - B means 'A is the brother of B'

A × B means 'A is the mother of B'

A ÷ B means 'A is the sister of B'

Based on the above, how is I related to M if 'I + J ÷ K × L - M'?

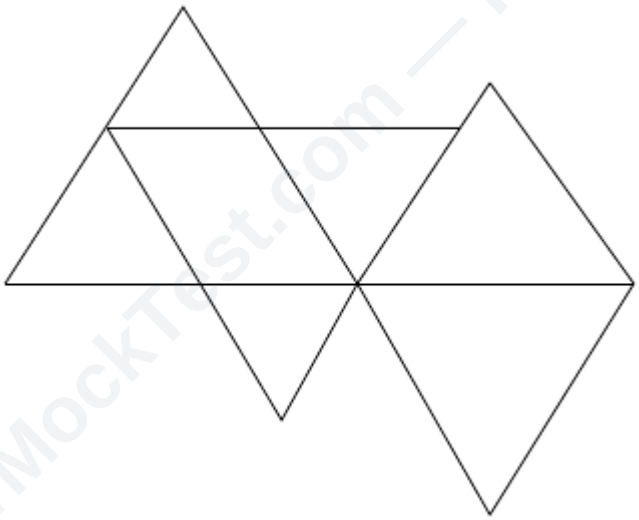
(a) Father
(b) Father's brother
(c) Mother's father

(d) Father's father

Q6. Each of the letters in the word KINGDOM are arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter that is fourth from the left and the one that is extreme right in the new letter-cluster thus formed?

(a) Two
(b) Six
(c) Three
(d) Five

Q7. How many triangles are there in the given figure?



(a) 9
(b) 7
(c) 6
(d) 8

Q8. In a certain code language, 'YACHT' is coded as '8' and 'SHALEOD' is coded as '24'. How will 'ANALYSTIC' be coded in that language?

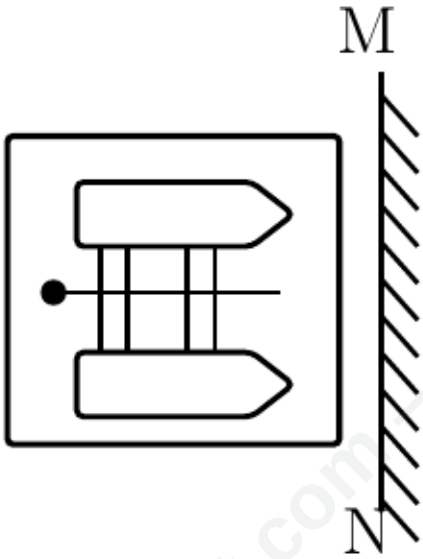
(a) 40
(b) 26
(c) 44
(d) 20

Q9. 34 is related to 70 in a certain way. Following the same logic, 56 is related to 114. To which of the following is 23 related, following the same logic?

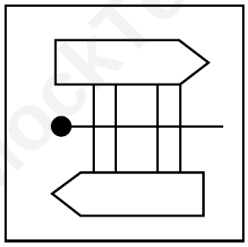
(a) 39
(b) 52
(c) 48
(d) 47

Q10. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

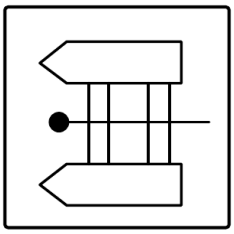
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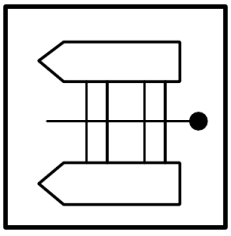
(a)



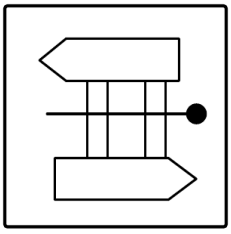
(b)



(c)



(d)



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Q11. Select the option in which the letter-clusters share the same relationship as that shared by the given pair of letter-clusters.

DKG : HSN

VLM : ZTT

(a) RBI : VYG
(b) SPY : VXB
(c) KTY : OBF
(d) PBN : SLM

Q12. The second number in the given number pairs is obtained by performing certain mathematical operations(s) on the first number. The same operation(s) is/are followed in all the number pairs except one. Find that odd number pair.

(a) 14 : 77
(b) 25 : 86
(c) 31 : 94
(d) 22 : 85

Q13. Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order.

BYM, CWL, DUK, ESJ, ?

(a) FQI
(b) FRI
(c) FQG
(d) FRG

Q14. Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

(1) 4 - 125

(2) 3 - 64

(3) 2 - 8

(4) 6 - 343

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

Q15. Select the term from the given options that can replace the question mark (?) in the given series to make it logically complete.

DT 35, EU 33, ?, GW 29, HX 27

(a) EX 30
(b) GV 33
(c) EW 32
(d) FV 31

Q16. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some papers are buttons.

All papers are flowers.

All buttons are stamps.

Conclusions:

(I) Some flowers are stamps.

(II) Some buttons are flowers.

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(a) Only conclusion (I) follows
(b) Both conclusions (I) and (II) follow
(c) Only conclusion (II) follows
(d) Neither conclusion (I) nor (II) follows

Q17. What will come in the place of '?' in the following equation, if:

'+' is changed with '-'

'-' is changed with '÷'

'÷' is changed with '+'

'×' is unchanged

120 - 6 + 31 ÷ 8 × 11 = ?

(a) 69
(b) 73
(c) 77
(d) 55

Q18. Each of the letters in the word POINTED are arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter that is third from the left and the one that is fourth from the right in the new letter-cluster thus formed?

(a) Six
(b) Three
(c) Four
(d) Two

Q19. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

41 ÷ 7 + 125 × 5 - 8 = ?

(a) 370
(b) 270
(c) 170
(d) 470

Q20. In a certain code language,

A + B means 'A is the son of B',

A - B means 'A is the wife of B',

A × B means 'A is the brother of B',

A ÷ B means 'A is the mother of B'.

Based on the above, how is R related to T if 'P × Q ÷ R - S + T'?

(a) Son's wife
(b) Daughter
(c) Mother's brother
(d) Brother

Q21. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

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(a)



(b)



(c)



(d)



Q22. In a certain code language, 'always keep your secret' is written as 'pl zt rs mk' and 'your attitude is good' is written as 'nj mk hl yp'. How is 'your' written in the given language?

(a) mk
(b) Nj
(c) yp
(d) Zt

Q23. Select the number pair in which the numbers are related in the same way as are the numbers of the given number pairs.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their 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.)

5 : 50

12 : 288

(a) 4 : 36
(b) 8 : 128
(c) 9 : 161

(d) 6 : 70

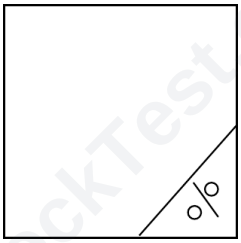
Q24. Three of the following four are alike in a certain way and thus form a group. Which the one that does NOT belong to that group?

(a) NRT
(b) LPR
(c) EIK
(d) BFI

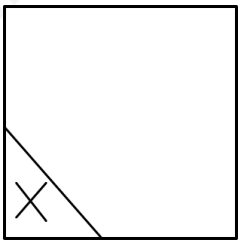
Q25. Identify the figure given in the options which when put in place of ? will logically complete the series.



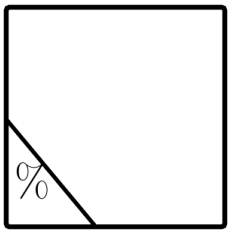
(a)



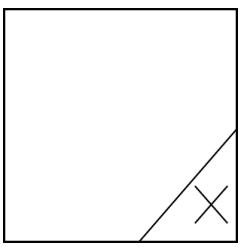
(b)



(c)



(d)



GENERAL INTELLIGENCE

Q26. Indian Navy Sailing Championship 2022, one of the events being conducted by the Indian Navy to commemorate Azadi ka Amrit Mahotsav and khelo India, was held in:

(a) Andhra Pradesh
(b) West Bengal

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(c) Tamil Nadu
(d) Kerala

Q27. Ramesh Bais served as Governor in which of the following states before being appointed as Governor of Maharashtra in 2023?
(a) Odisha
(b) Karnataka
(c) Jharkhand
(d) West Bengal

Q28. In which year did Niels Bohr propose a theory for the hydrogen atom based on the quantum theory that some physical quantities take only discrete values?
(a) 1919
(b) 1921
(c) 1909
(d) 1913

Q29. Which f-block element in the periodic table is represented by the Greek symbol 'alpha' and the metallic 'rays'?
(a) Lanthanum
(b) Actinium
(c) Rhenium
(d) Tungsten

Q30. Who among the following organised Sarvajanik Ganesh Utsav to inculcate national sentiments among the masses?
(a) Lokmanya Tilak
(b) Bipin Chandra Pal
(c) Aurobindo Ghosh
(d) Lala Lajpat Rai

Q31. Which event was hosted at Lord's Cricket Ground (LCG) at the 2012 Olympics?
(a) Boxing
(b) Cricket
(c) Archery
(d) Equestrian

Q32. Which of the following is the compelling factor that produced a very high repayment rate of 98% in the concept of lending to groups of poor women, initiated by Dr Yunus?
(a) Involvement of 'loan sharks'
(b) Removal of the defaulter from the group
(c) Joint liability putting social pressure to repay loans
(d) Use of the services of aggressive loan recovery agents

Q33. Which of the following forest types is found on the foothills of the Himalayas?
(a) Temperate
(b) Tundra
(c) Alpine
(d) Deciduous

Q34. What is the Crude Death Rate of India as per Census 2011?
(a) 10%
(b) 8.5%
(c) 5.9%
(d) 7.1%

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Q35. Which of the following presents awards and recognitions in the field of Indian dances?

(a) INTACH
(b) Sangeet Natak Akademi
(c) Sahitya Akademi
(d) Lalit Kala Akademi

Q36. Who among the following Indian cricketers has won the ICC Emerging Women's cricketer award for the year 2022?

(a) Smriti Mandhana
(b) Renuka Singh
(c) Harmanpreet Kaur
(d) Jhulan Goswami

Q37. Alvars were the devotees of which South Indian cult?

(a) Shaktism
(b) Saivism
(c) Jainism
(d) Vaishnavism

Q38. The working conditions also include prevention of sexual harassment of working women and making arrangements in the organisation for it, this falls under _____.

(a) Article 44
(b) Article 42
(c) Article 45
(d) Article 43

Q39. Which of the following is true about the Zaid season in Indian agriculture?

(a) It follows the Rabi season.
(b) It coincides with southwest monsoon.
(c) It begins with the onset of winter.
(d) It follows the Kharif season.

Q40. Talat Aziz is primarily a _____ singer.

(a) Hindustani Classical
(b) Carnatic Classical
(c) Ghazal
(d) Folk

Q41. Tevitichiyattam, Nangai Natakam and Dasiyattam are the forms of which of the following classical dances?

(a) Odissi dance
(b) Kathakali dance
(c) Sattriya dance
(d) Mohiniyattam dance

Q42. Which metal ion released from tannery industry causes acute water pollution?

(a) Mg
(b) As
(c) Cr
(d) Zn

Q43. The plan that mainly aims to coordinate both, private and public investment and output plans through targets is called _____.

(a) indicative planning
(b) rolling plan
(c) decentralised planning
(d) centralised planning

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Q44. Who among the following Indian Grandmasters defeated the world number one Magnus Carlsen and become the runner up in the FTX Crypto Cup 2022?

(a) Saket Myneni
(b) Vishwanathan Anand
(c) R Praggnanandhaa
(d) P Harikrishna

Q45. In the estimation of national income, which of the following items will be subtracted from NNP at market price?

(a) Depreciation
(b) Net product taxes and net production taxes
(c) Net indirect taxes
(d) Depreciation and net product taxes

Q46. Which type of surveillance is specifically aimed at identifying missing cases of disease?

(a) Overt surveillance
(b) Passive surveillance
(c) Active surveillance
(d) Sentinel surveillance

Q47. Which Article of the Indian Constitution protects monuments or a place of artistic or historical interest?

(a) Article 48
(b) Article 49
(c) Article 50
(d) Article 51

Q48. Identify the correct statement/s with respect to NABARD's EShakti project.

i. The project aimed to digitise the financial and non-financial data of all the SHGS.
ii. The project aimed to bring awareness about Digital India among the farmers.
iii. This project was launched by NABARD in March 2015.

(a) Only ii
(b) Only i and iii
(c) Only i and ii
(d) Only ii and iii

Q49. Proportional taxes would help to reduce the autonomous expenditure multiplier because _____.

(a) taxes increase the MPC
(b) MPC does not have any role in it
(c) taxes and MPC become equal
(d) taxes reduce the MPC

Q50. Who was the Chief guest on 26^(th) January 2023 Republic Day Parade?

(a) Cyril Ramaphosa
(b) Shinzo Abe
(c) Jair Bolsonaro
(d) Abdel Fattah El Sisi

QUANTITATIVE APTITUDE

Q51. The volume of a solid sphere is 4500 π cm^3. The surface area of the solid sphere is:

(a) 700 π cm^2
(b) 850 π cm2
(c) 900 π cm2
(d) 810 π cm2

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Q52. Find the fourth proportion of the numbers 1/3 ^(rd) of 15, 4/5 ^(th) of 25, 3/7 ^(th) of 35:

(a) 65
(b) 55
(c) 60
(d) 50

Q53. If ΔABC ∼ ΔPQR, the ratio of perimeter of ΔABC to perimeter of ΔPQR is 36 : 23 and QR = 3.8 cm, then the length of BC is:

(a) 4103/121 cm
(b) 3109/121 cm
(c) 5109/115 cm
(d) 3107/115 cm

Q54. Table shows year wise road accidents registered in a city during 2015 - 2018.

Year\Accidents	Minor	Injury	Serious	Casualties
2015	160	125	55	30
2016	150	120	50	35
2017	210	170	30	25
2018	190	130	60	40

What is the percentage reduction in serious from the year 2016 to 2017?

(a) 35%
(b) 20%
(c) 25%
(d) 40%

Q55. If $x^2 - 4x - 1 = 0$, then find the value of $x^2 + 1/(x^2) - 5$.

(a) 17
(b) 12
(c) 15
(d) 13

Q56. Simple interest on a certain sum is one-fourth of the sum and the interest rate per annum is four times the number of years. If the rate of interest increases by 2%, then how much will the simple interest (in Rs.) be on Rs. 3,600 for 6 years?

(a) 2,562
(b) 2,514
(c) 2,642
(d) 2,592

Q57. If $(\sin\theta-\cos\theta)/(\sin\theta+\cos\theta)=4/5$, then the value of $(\text{cosec}^2\theta)/(2-\text{cosec}^2\theta)$ is:

(a) 16/25
(b) 40/41
(c) 41/40
(d) 31/30

Q58. Anil completed a certain journey by a car. If he covered 35% of the distance at 70 km/h. 40% of the distance at 80 km/h and the remaining distance at 50 km/h, his average speed (in km/h) for the entire journey is:

(a) 66 3/3 km/h
(b) 66 2/3 km/h
(c) 66 1/3 km/h
(d) 66 4/3 km/h

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Q59. ΔPQR is right angled at Q. If PQ = 12 cm PR = 13 cm, find tan P + cot R.

(a) 9/10
(b) 0
(c) 10/12
(d) 12/10

Q60. A table fan is marked at Rs. 1,700 and a discount of 15% is given. What is its selling price (in Rs.)?

(a) 1,454
(b) 1,425
(c) 1,445
(d) 1,554

Q61. A tradesman marks his goods 25% above the cost price and allows his customers a discount of 12% on their bill. How much % profit tradesman realizes?

(a) 13%
(b) 11%
(c) 12%
(d) 10%

Q62. If 7 divides the integer n, then the remainder is 2. What will be the remainder if 9n is divided by 7?

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

Q63. The table given below shows the number of aerated drinks-A, B, C, D-manufactured (in thousands) by a company over the years.

Year	Aerated Drinks			
A	B	C	D	
2019	250	200	140	115
2020	200	230	170	120
2021	260	210	195	135
2022	275	175	190	155

Which aerated drink has the highest manufacturing number from 2019 to 2022?

(a) D
(b) B
(c) A
(d) C

Q64. The largest chord of the circle is:

(a) point
(b) tangent
(c) diameter
(d) radius

Q65. The difference between the simple interest and the compound interest on a certain amount at 9% per annum for two years is Rs. 162, what is the principal?

(a) Rs. 19700
(b) Rs. 19000
(c) Rs. 20000
(d) Rs. 19500

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Q66. Two circles touch each other externally at any point C. PQ is the direct common tangent to both the circles touching the circles at point P and point Q. If the radii of the circles are 36 cm and 16 cm, respectively, then the length of PQ is:

(a) 42 cm
(b) 24 cm
(c) 48 cm
(d) 36 cm

Q67. Chords AB and CD of a circle intersect inside the circle at point F. If m(AF) = 2.4 cm, m(BF) = 1.8 cm, and m(CD) = 5.7 cm, what is the length (in cm) of the longer of the two line segments, CF and DF ?

(a) 4.5
(b) 4.8
(c) 5.4
(d) 3.6

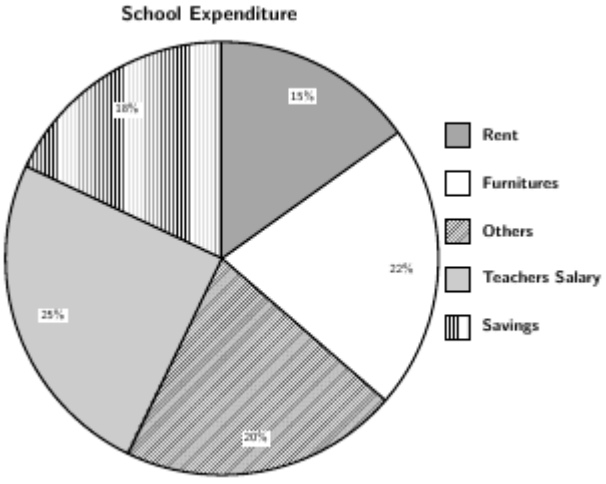
Q68. The algebraic expression $4x^2 - y^2 + 6y - 9$ is equal to _____.

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

Q69. A spends 68% of his monthly income. If A's monthly income increases by 25% and his monthly saving increases by 15%, then the percentage increase in his monthly expenditure will be:

(a) 27 13/17 %
(b) 29 12/17 %
(c) 33 7/17 %
(d) 31 6/17 %

Q70. The following pie chart shows the percentage distribution of school expenditure.



If the teacher's salary and rent together is Rs. 45 lakhs, then find the savings.

(a) Rs. 22,53,000
(b) Rs. 24,75,000
(c) Rs. 16,87,500
(d) Rs. 20,25,000

Q71. If tan A = 1/2 and tan B = 1/3, then the value of A + B is:

(a) 60°
(b) 15°
(c) 30°
(d) 45°

Q72. A man sells a good at 5% profit. If he had sold it at a 10% profit, he would have received Rs. 175 more. What is the selling price of the good?

(a) Rs. 3,750
(b) Rs. 3,850
(c) Rs. 3,675
(d) Rs. 3,500

Q73. If x = (√6-1)^(1/3), then the value of $(x-1/x)^3+3(x-1/x)$ is:

(a) (2√6-6)/5
(b) (4√6-6)/5
(c) (4√6-6)/3
(d) (4√3-6)/5

Q74. X can do a piece of work in 14 days, Y can complete the same work in 28 days and Z can do it in 42 days. In how many days can X, Y and Z together complete the work?

(a) 7 9/11
(b) 7 7/11
(c) 7 5/11
(d) 7 3/11

Q75. In what ratio, wheat at Rs. 23 per kg should be mixed with wheat at Rs. 14 per kg so that on selling the mixture at Rs. 20 per kg there is a profit of 25%?

(a) 5 : 7
(b) 3 : 5
(c) 2 : 3
(d) 2 : 7

GENERAL AWARENESS

Q76. Select the most appropriate synonym of the given word.

Makeshift

(a) Resourceful
(b) Provisional
(c) Perpetual
(d) Inconsiderate

Q77. Select the most appropriate synonym of the given word from the following sentence.

Ambitious

He aspires to be a future diplomat but he will have to improve his decision-making skills.

(a) aspires
(b) improve
(c) decision
(d) skills

Q78. Select the most appropriate option that can substitute the underlined word in the given sentence.

The fall of Ranjith for the petty material benefit was really ignominious.

(a) unfaltering
(b) amusing
(c) reprehensible
(d) ignorable

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Q79. Select the option that can be used as a one-word substitute for the underlined group of words.

WHO is an organisation that raises money for a particular cause.

(a) donation
(b) volunteer
(c) charity
(d) fundraiser

Q80. Select the most appropriate option that can substitute the underlined words in the given sentence.

The new restaurant is more better than the old one.

(a) most better
(b) better
(c) much more better
(d) the best

Q81. Select the option that expresses the given sentence in passive voice.

The teacher did not allow the students to leave the lecture.

(a) The students are not allowed to leave the lecture.
(b) The students had not been allowed to leave the lecture by the teacher.
(c) The students had not allowed the teacher to leave the lecture.
(d) The students were not allowed to leave the lecture by the teacher.

Q82. Select the most appropriate idiom for the underlined segment in the following sentence.

The servants know the secrets of the family they are working for.

(a) Ins and outs
(b) Latin and Greek
(c) Hornet's nest
(d) Long and short

Q83. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Washington Irving's writing career started at / the tender age of nineteen when he joined / his brother Peter's newspaper The Morning Chronicle / as journalist.

(a) his brother Peter's newspaper The Morning Chronical
(b) Washington Irving's writing career started at
(c) as journalist
(d) the tender age of nineteen when he joined

Q84. 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. Isabel saw a strange rabbit running through the bushes.

B. Following it, she found a door which she opened with the help of keys.

C. After that, she felt a strange sensation in her body.

D. She thought as if she was in a dream.

(a) CDAB
(b) DCAB
(c) BCDA
(d) ABCD

Q85. Select the most appropriate ANTONYM of the word in brackets to fill in the blank.

After the rain stopped, the air smelled fresh and clean, and the sun _____ (stared) out from behind the clouds.

(a) peeked
(b) observed
(c) spied
(d) surveyed

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Q86. Select the most appropriate homophone to fill in the blank.

Developers _____ the old buildings on the site to make way for new construction.

(a) raze
(b) rays
(c) raise
(d) rase

Q87. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

(A) The new movie was highly anticipated by fans of the franchise.

(B) As the lights dimmed, the audience grew quiet in anticipation.

(C) The movie began with an exciting action sequence that had the audience on the edge of their seats.

(D) The movie theatre was packed with people eager to see it.

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

Q88. Select the correctly spelt word.

(a) Suspicion
(b) Susspicion
(c) Susppicion
(d) Suspicon

Q89. Select the most appropriate idiom for the underlined segment in the following sentence.

Shruti is a strange person because of her attitude.

(a) A one man
(b) A scarlet woman
(c) Queer fish
(d) A straw man

Q90. Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct order to form a meaningful sentence.

A) the importance

B) to be treated

C) of treating other people

D) now he knows

E) as he would like

(a) D, A, C, E, B
(b) B, D, C, A, E
(c) C, D, B, A, E
(d) C, E, B, A, D

Q91. Select the option that can be used as a one-word substitute for the given group of words.

A form of government in which power is held by the nobility

(a) Democracy
(b) Aristocracy
(c) Republic
(d) Nobility

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Q92. Choose the correct meaning of the underlined word in the given sentence.

The World Health Organization has finally issued guidelines to prevent the spread of the Covid-19 epidemic.

(a) A large number of people or animals suffering from the same disease at the same time
(b) An infection which is caused by viruses
(c) An infection that spreads slowly
(d) A disease which lasts for more than fifty years

Q93. Select the most appropriate option that expresses the given sentence in passive voice.

The professor assigns the homework every week.

(a) The homework is assigning by the professor every week.
(b) The homework will be assigned by the professor every week.
(c) The homework assigns by the professor every week.
(d) The homework is assigned by the professor every week.

Q94. Select the INCORRECTLY spelt word.

The Special Task Force will conduct a thorough probe in the land scam case which has Mr. Lakhan Lal as the prime akused.

(a) Scam
(b) Prime
(c) Thorough
(d) Akused

Q95. Select the most appropriate ANTONYM to substitute the underlined word in the given sentence.

The newly selected secretary of the party has a/an impeccable image among the public.

(a) Refurbished
(b) Blemished
(c) Irresistible
(d) Arbitrary

Directions

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

Upgrading the higher education sector especially in terms of patents filed and cutting-edge research output is (1)____ in improving India's global ranking. Our sustainable (2)__ development depends on human resources. A quality higher education base is essential to reap the full benefits of our demographic dividend. In higher education, the strategies of the 12th plan (3)__ on technical education, distance learning, quality research, infrastructure, faculty, and curriculum content. (4)__ efforts of the government departments and the private sector are needed to (5)____ the plan's educational goals.

Q96. Select the most appropriate option to fill in blank number 1.

(a) unrequired
(b) deserving
(c) fulfilling
(d) essential

Q97. Select the most appropriate option to fill in blank number 2.

(a) social
(b) economic
(c) psychological
(d) political

Q98. Select the most appropriate option to fill in blank number 3.

(a) understand
(b) attend
(c) divert

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(d) focus

Q99. Select the most appropriate option to fill in blank number 4.

(a) Sustained
(b) Compromised
(c) Coordinated
(d) Gathered

Q100. Select the most appropriate option to fill in blank number 5.

(a) remain
(b) realise
(c) conclude
(d) conduct

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) 23

Logic : (6) is added to each number subsequently.
Hence, "23" is the correct answer.

Q2. Answer: (b) 157

Logic : Consecutive multiples of (9) are added to each number subsequently.
Hence, "157" is the correct answer.

Q3. Answer: (b) OK 22

The logic followed here is :-
• First and second letters → (4) is added to the position value according to English alphabetic series.
• Number → (5) is added to the given number.
So,
• DM 12 is related to HQ 17

And,
• TS 19 is related to XW 24

Similarly,
• KG 17 is related to :

Hence, "OK 22" is the correct answer.

Q4. Answer: (c) RIE

Logic :

• First and third letter → (2) is subtracted from the position value according to English alphabetic series.

• Second letter → (2) is added to the position value according to English alphabetic series respectively.

So,

Hence, "RIE" is the correct answer.

Q5. Answer: (c) Mother's father

Given :

A is				
Symbol	•	•	×	÷
Meaning	Father	Brother	Mother	Sister
to B				

Statement given : I + J ÷ K × L - M

So,

• I + J → I is the father of J.

• J ÷ K → J is the sister of K.

• K × L → K is the mother of L.

• L - M → L is the brother of M.

Thus, according to the final family tree I is the maternal grandfather i.e mother's father of M.

Hence, "Mother's father" is the correct answer.

Q6. Answer: (c) Three

Given : Word → KINGDOM

Explanation :

Word → KINGDOM

According to the question :- Each of the letters in the word are arranged in alphabetical order.

So,

After rearrangement → DGIKMNO

Now,

In the new letter-cluster formed, fourth from the left and the one that is extreme right => DGIKMNO

Thus, there are '3' number of letters between fourth from the left and the one that is extreme right in the new letter-cluster => K, L, M, N, O

Hence, "Three" is the correct answer.

Q7. Answer: (d) 8

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

Thus, there are total 8 triangles in the given figure.

Hence, "8" is the correct answer.

Q8. Answer: (a) 40

Logic : (Number of the letters within the word - 4) × 8

So,

• 'YACHT' is coded as '8'

Number of the letters in the given word is '5' i.e Y, A, C, H and T.

=> (5 - 4) × 8

=> 1 × 8

=> 8

And,

• 'SHALEOD' is coded as '24'

Number of the letters in the given word is '7' i.e S, H, A, L, E, O and D.

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=> (7 - 4) × 8

=> 3 × 8

=> 24

Similarly,

• 'ANALYSTIC' is coded as :

Number of the letters in the given word is '9' i.e A, N, A, L, Y, S, T, I and C.

=> (9 - 4) × 8

=> 5 × 8

=> 40

Hence, "40" is the correct answer.

Q9. Answer: (c) 48

Logic : (1st number × 2) + 2 = 2nd number

So,

• 34 is related to 70

34 × 2 + 2 = 70

68 + 2 = 70

70 = 70 (LHS = RHS)

And,

• 56 is related to 114

56 × 2 + 2 = 114

112 + 2 = 114

114 = 114 (LHS = RHS)

Similarly,

• 23 is related to :

23 × 2 + 2 = ?

46 + 2 = ?

48 = ?

Hence, "48" is the correct answer.

Q10. Answer: (c) [figure]

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

Hence, the correct answer is "Option - (3)".

Q11. Answer: (c) KTY : OBF

Logic : (4), (8) and (7) is added to first, second and third letters according to the position value according to the English alphabetic series respectively.

Given :

• DKG : HSN

• VLM : ZTT

So,

• Option - (1) : RBI : VYG

• Option - (2) : SPY : VXB

• Option - (3) : KTY : OBF

• Option - (4) : PBN : SLM

Here, out of all options only 'KTY : OBF' follows the same logic as given.

Hence, "Option - (3)" is the correct answer.

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Q12. Answer: (b) 25 : 86

Logic: The difference between the given set of numbers is 63

Option 1) 14 : 77

=> 77 - 14 = 63

Option 2) 25 : 86

=> 86 - 25 = 61

Option 3) 31 : 94

=> 94 - 31 = 63

Option 4) 22 : 85

=> 85 - 22 = 63

Hence, "Option 2" is the correct answer.

Q13. Answer: (a) FQI

Logic :

• First and third letter → (1) are added to and subtracted from the position value of first and third letter according to English alphabetic series respectively.

• Second letter → (2) is subtracted from the position value according to English alphabetic series.

So,

Hence, "FQI" is the correct answer.

Q14. Answer: (a) 3

Logic : Cube of (1st number +1) = 2nd number

So,

• (1) : 4 - 125

$(4 + 1)^3 = 125$

$(5)^3 = 125$

125 = 125 (LHS = RHS)

• (2) : 3 - 64

$(3 + 1)^3 = 64$

$(4)^3 = 64$

64 = 64 (LHS = RHS)

• (3) : 2 - 8

$(2 + 1)^3 = 8$

$(3)^3 = 8$

$27 \neq 8$ (LHS ≠ RHS)

• (4) : 6 - 343

$(6 + 1)^3 = 343$

$(7)^3 = 343$

343 = 343 (LHS = RHS)

Hence, "Option - (1)" is the correct answer.

Mistake Points The given options are not in sequence wise, so mark the answer carefully.

Q15. Answer: (d) FV 31

Logic :

• First and second letter → (1) is added to the position value according to English alphabetic series.

• Number → (2) is subtracted from the position value according to English alphabetic series.

So,

Hence, "FV 31" is the correct answer.

Q16. Answer: (b) Both conclusions (I) and (II) follow

The least possible Venn diagram for the given statement is:

Conclusions:

I. Some flowers are stamps → Follow (As, some papers are buttons, all papers are flowers and all buttons are stamps. So, all

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papers comes in flowers and has some common part with buttons which whole comes in stamps therefore it is definitely true.)

II. Some buttons are flowers → Follow (As, some papers are buttons and all papers are flowers. So, all papers comes in flowers and has some common part with buttons therefore it is definitely true)

Here, Both conclusions (I) and (II) follow.

Hence, the correct answer is "Both conclusions (I) and (II) follow".

Q17. Answer: (c) 77

Given statement : 120 - 6 + 31 ÷ 8 × 11 = ?

According to the question, after interchanging the signs :

• '+' is changed with '-'

• '-' is changed with '÷'

• '÷' is changed with '+'

• '×' is unchanged

So,

120 ÷ 6 - 31 + 8 × 11 = ?

20 - 31 + 8 × 11 = ?

20 + 88 - 31 = ?

108 - 31 = ?

77 = ?

Hence, "Option - (77)" is the correct answer.

Q18. Answer: (c) Four

Given : Word → POINTED

Explanation :

Word → POINTED

According to the question :- Each of the letters in the word are arranged in alphabetical order.

So,

After rearrangement → DEINOPT

Now,

In the new letter-cluster formed, third from the left and the one that is fourth from the right => DEINOPT

Thus, there are '4' number of letters between third from the left and the one that is fourth from the right in the new letter-cluster => I, J, K, L, M, O

Hence, "Four" is the correct answer.

Q19. Answer: (b) 270

Given : 41 ÷ 7 + 125 × 5 - 8 = ?

According to the question, after replacing the signs :

• '+' and '-' are interchanged

• '×' and '÷' are interchanged

So,

41 × 7 - 125 ÷ 5 + 8 = ?

41 × 7 - 25 + 8 = ?

287 + 8 - 25 = ?

295 - 25 = ?

270 = ?

Hence, "270" is the correct answer.

Q20. Answer: (a) Son's wife

Given :

A is				
Symbol	•	•	×	÷
Meaning	Son	Wife	Brother	Mother

to B			

Statement given : P × Q ÷ R - S + T

So,

• P × Q → P is the brother of Q.

• Q ÷ R → Q is the mother of R.

• R - S → R is the wife of S.

• S + T → S is the son of T.

Thus, according to the final family tree R is the daughter-in-law i.e son's wife of T.

Hence, "Son's wife" is the correct answer.

Q21. Answer: (d) [figure]

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

Detailed Explanation:

• The line MN is the mirror

• The word "yReqa27" the second letter is "R". So, the mirror image should be "

" => Option 1 is eliminated.

• The word "yReqa27" the third letter is "e". So, the mirror image should be "

" => Option 2 is eliminated..

• The word "yReqa27" the fourth letter is "q". So, the mirror image should be "

" => Option 3 is eliminated.

Hence, the correct answer is "Option - (4)".

Q22. Answer: (a) mk

According to the given information,

Thus, according to the given codes 'mk' is the code for the word 'your'.

Hence, the correct answer is "mk".

Q23. Answer: (b) 8 : 128

Logic : (Square of 1st number) × 2 = 2nd number

Given :

• 5 : 50

$(5)^2 \times 2 = 50$

$25 \times 2 = 50$

50 = 50 (LHS = RHS)

• 12 : 288

$(12)^2 \times 2 = 288$

$144 \times 2 = 288$

288 = 288 (LHS = RHS)

So,

• Option - (1) : 4 : 36

$(4)^2 \times 2 = 36$

$16 \times 2 = 36$

$32 \neq 36$ (LHS ≠ RHS)

• Option - (2) : 8 : 128

$(8)^2 \times 2 = 128$

$64 \times 2 = 128$

128 = 128 (LHS = RHS)

• Option - (3) : 9 : 161

$(9)^2 \times 2 = 161$

$81 \times 2 = 161$

$162 \neq 161$ (LHS ≠ RHS)

• Option - (4) : 6 : 70
$(6)^2 \times 2 = 70$
$36 \times 2 = 70$
$72 \neq 70$ (LHS ≠ RHS)
Hence, "Option - (2)" is the correct answer.

Q24. Answer: (d) BFI

The logic followed here is :-
• First and second letter => Difference between the position values according to English alphabetic series is (4).
• Second and third letter => Difference between the position values according to English alphabetic series is (2).
So,
• Option - (1) : NRT

• Option - (2) : LPR

• Option - (3) : EIK

• Option - (4) : BFI

Here, Out of all options 'BFI' is the odd one out.
Hence, "BFI" is the correct answer.

Q25. Answer: (b) [figure]

The figure that will replace the question mark (?) in the following figure series is shown below:
1) For '
' element → Shifting in the anti-clockwise direction along with replacing with different element in each box i. e '
', '
', '
' and '
'.
Final series is
Hence, ‘option - (2)’ is the correct answer.

Q26. Answer: (d) Kerala

The correct answer is Kerala.
Key Points
• Indian Navy Sailing Championship 2022:-
• The Indian Navy Sailing Championship 2022 was held in Kerala.
• The event was organized by the Indian Navy to celebrate Azadi ka Amrit Mahotsav and khelo India.
• The championship saw participation from various naval units and teams from across the country.
• The competition was held in different categories, including Laser Radial, Enterprise, and Laser 4.7.
• The event aimed to promote sailing as a sport and encourage more people to take it up.

Q27. Answer: (c) Jharkhand

The correct answer is Jharkhand.
Key Points
• Ramesh Bais:-
• He served as Governor of Jharkhand before being appointed as Governor of Maharashtra in 2023.
• He served as the 10th Governor of Jharkhand from August 2018 to June 2021.
• Prior to that, he was a member of parliament from Chhattisgarh and served as a minister in the central government.

Q28. Answer: (d) 1913

The correct answer is 1913.
Key Points

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• Niels Bohr:-

• He was a Danish physicist who made significant contributions to the development of atomic structure and quantum mechanics.

• His theory for the hydrogen atom based on quantum theory is known as the Bohr model, which proposed that electrons orbit the nucleus in specific energy levels.

• In 1913 Niels Bohr proposed his theory for the hydrogen atom based on the quantum theory that some physical quantities take only discrete values.

• Niels Bohr's theory proposed that electrons in an atom can only exist in certain energy levels, and when they move between levels, they emit or absorb energy in the form of photons.

• This theory helped to explain the spectral lines of hydrogen and paved the way for further development of quantum mechanics.

Q29. Answer: (b) Actinium

The correct answer is Actinium.

Key Points

• Actinium:-

• The f-block element represented by the Greek symbol 'alpha' and the metallic 'rays' is Actinium, which has the atomic number 89 and belongs to the group 3 of the periodic table.

• Actinium is a radioactive element that was discovered in 1899 by Andrundefined-Louis Debierne and named after the Greek word 'aktinos', meaning ray or beam, due to its high radioactivity.

• Actinium is a silvery-white metal that tarnishes in air and reacts with water and acids. It has no stable isotopes and its most stable isotope, Actinium-227, has a half-life of 21.8 years.

• Actinium is used in nuclear medicine for cancer treatment and as a neutron source in scientific research.

Additional Information

• Lanthanum:-

• It is a soft, silvery-white metal that belongs to the lanthanide series and is used in the production of high-refractive-index glass, as well as in catalysts, electrodes, and other applications.

• Rhenium:-

• It is a dense, silvery-white metal that belongs to the group 7 of the periodic table and is used in high-temperature alloys, thermocouples, and catalysts.

• Tungsten:-

• It is a hard, dense, gray metal that belongs to the group 6 of the periodic table and is used in filaments, electrical contacts, and other applications.

Q30. Answer: (a) Lokmanya Tilak

The correct answer is Lokmanya Tilak.

Key Points

• Lokmanya Tilak:-

• He organised Sarvajanik Ganesh Utsav to inculcate national sentiments among the masses.

• Sarvajanik Ganesh Utsav was started by Tilak in 1893 as a means to bring people together and foster a sense of national unity and pride. It was also a way to challenge the British ban on public gatherings and political meetings.

Additional Information

• Bipin Chandra Pal:-

• He was a prominent Indian nationalist and one of the trio of Lal Bal Pal who advocated for Swaraj or self-rule.

• Aurobindo Ghosh:-

• He was a revolutionary leader who advocated for armed resistance against the British.

• Lala Lajpat Rai:-

• He was a prominent Indian nationalist and a member of the Indian National Congress.

Q31. Answer: (c) Archery

The correct answer is Archery.

Key Points

• Archery:-

• The event hosted at Lord's Cricket Ground during the 2012 Olympics was Archery.

• This was the first time that Archery was included as an Olympic event at LCG.

• LCG is primarily known for hosting cricket matches and is often referred to as the "Home of Cricket".

Additional Information

• Cricket:-

• It is a popular sport in England and Lord's Cricket Ground is one of the most iconic cricket stadiums in the world.

• Boxing:-

• It is a combat sport that involves two participants wearing gloves and throwing punches at each other.

• Archery:-

• It involves shooting arrows at a target from a set distance and is a sport that requires a lot of focus and precision.

• Equestrian:-

• These events at the Olympics include dressage, jumping, and eventing, and involve horse and rider combinations competing in various challenges.

Q32. Answer: (c) Joint liability putting social pressure to repay loans

The correct answer is Joint liability putting social pressure to repay loans.

Key Points

• Joint liability:-

• It means that all members of a group are responsible for each other's loans.

• Therefore, if one member defaults on a loan, the other members are responsible for repaying it. This puts social pressure on the group to repay loans on time.

Additional Information

• In the concept of lending to groups of poor women, initiated by Dr Yunus, joint liability was used as a compelling factor to ensure a high repayment rate.

• The removal of a defaulter from the group may seem like a viable solution, but it does not address the root cause of defaulting on loans. Moreover, it may lead to social ostracization of the defaulter, which is not desirable.

• Involvement of 'loan sharks' and the use of the services of aggressive loan recovery agents (option 4) are illegal and unethical means of recovering loans. They do not address the root cause of defaulting on loans and may lead to further indebtedness of borrowers.

Q33. Answer: (d) Deciduous

The correct answer is Decidious.

Key Points

• Deciduous forests:-

• The forest type found on the foothills of the Himalayas is the deciduous forest, which is characterized by trees that shed their leaves seasonally.

• These forests are also known as the Terai-Duar savanna and grasslands and are found in the lowlands of the Himalayan foothills in India, Nepal, and Bhutan.

• The deciduous forests of the Himalayan foothills are home to a diverse range of flora and fauna, including tigers, elephants, deer, and various species of birds and reptiles.

Additional Information

• Temperate forests:-

• The temperate forests are found in cooler regions with moderate rainfall.

• Tundra:-

• It is a cold and treeless biome found in high latitudes.

• Alpine forests:-

• The alpine forests are found in high-altitude regions above the tree line.

Q34. Answer: (d) 7.1%

The correct answer is 7.1%.

Key Points

• Crude Death Rate:-

• The Crude Death Rate of India as per Census 2011 is 7.1%.

• Crude Death Rate (CDR) is the number of deaths per 1,000 population in a given year. It is a measure of mortality in a population.

Q35. Answer: (b) Sangeet Natak Akademi

The correct answer is Sangeet Natak Akademi.

Key Points

• Sangeet Natak Akademi:-

• It is a national academy for performing arts in India, established in 1953 by the Indian government.

• The Akademi presents awards and recognitions in the field of Indian classical music, dance, and theatre.

• Some of the prestigious awards presented by the Sangeet Natak Akademi include the Sangeet Natak Akademi Award, the Akademi Ratna Award, and the Tagore Akademi Ratna Puraskar.

Additional Information

• INTACH (Indian National Trust for Art and Cultural Heritage):-

• It is a non-profit organization that works towards the preservation of India's cultural heritage and does not present awards in the field of Indian dances.

• Lalit Kala Akademi:-

• It is the national academy of fine arts in India and presents awards for excellence in visual arts.

Q36. Answer: (b) Renuka Singh

The correct answer is Renuka Singh.

Key Points

• Renuka Singh:-

• She is the Indian cricketer who has won the ICC Emerging Women's cricketer award for the year 2022.

• She is a left-arm spinner and has represented the Indian women's cricket team in the past.

• ICC Emerging Women's cricketer award:-

• The ICC Emerging Women's cricketer award is given to the best young female player who has performed well in international cricket during the given period.

Additional Information

• Smriti Mandhana:-

• She is a left-handed opening batter who has been a consistent performer for the Indian women's cricket team in recent years. She has won several awards including the ICC Women's Cricketer of the Year in 2018.

• Harmanpreet Kaur:-

• She is an all-rounder who is known for her aggressive batting and effective off-spin bowling. She is also the captain of the Indian women's T20 team.

• Jhulan Goswami:-

• She is a right-arm medium-fast bowler who is the leading wicket-taker in women's ODI cricket. She has also won several awards including the Arjuna Award and the Padma Shri.

Q37. Answer: (d) Vaishnavism

The correct answer is Vaishnavism.

Key Points

• Alvars:-

• The Alvars were a group of Tamil poet-saints who lived between the 6th and 9th centuries CE.

• They were devoted to the worship of Lord Vishnu, and their poetry and hymns played a significant role in the development of the Bhakti movement in South India.

• The Alvars are considered to be the twelve most important Vaishnava saints, and their works are collectively known as the Divya Prabandham.

• Their teachings emphasized the importance of surrendering oneself to God, and they rejected the idea of caste-based discrimination.

Additional Information

• Shaktism:-

• It is a sect of Hinduism that worships the feminine aspect of the divine.

• Saivism:-

• It is a sect that worships Lord Shiva.

• Jainism:-

• It is a separate religion that originated in India and emphasizes the importance of non-violence and spiritual purity.

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Q38. Answer: (b) Article 42

The correct answer is Article 42.

Key Points

• Article 42:-

• It states that the State shall make provisions for securing just and humane conditions of work and for maternity relief.

• The prevention of sexual harassment of working women is an important aspect of ensuring safe and equitable working conditions for all employees, which falls under the ambit of just and humane conditions of work.

• Article 43:-

• It states that the State shall endeavour to secure living wages and decent standard of life for workers.

Additional Information

• Article 44:-

• It deals with Uniform Civil Code for citizens, while Article 45 deals with free and compulsory education for children.

Q39. Answer: (a) It follows the Rabi season.

The correct answer is It follows the Rabi season.

Key Points

• Zaid season:-

• The Zaid season is also known as the summer or intermediate crop season in Indian agriculture.

• It typically starts in June and ends in September.

• It is characterized by high temperatures and occasional rainfall, which makes it suitable for crops that require less water, such as vegetables, fruits, and pulses.

• Zaid season follows the Rabi season, which ends in March/April, and precedes the Kharif season, which starts in June/July.

Q40. Answer: (c) Ghazal

The correct answer is Ghazal.

Key Points

• Talat Aziz:-

• It is primarily known for his ghazals, which are a form of poetry set to music.

• Ghazals:-

• These are typically sung in Urdu and are known for their poetic and romantic themes.

Additional Information

• Hindustani classical music:-

• It is a genre that originated in North India and is characterized by its use of ragas and talas.

• Carnatic classical music:-

• It is a genre that originated in South India and is known for its complex rhythms and melodic structures.

• Folk music:-

• It is a genre that encompasses a wide range of traditional music from different regions and cultures.

Q41. Answer: (d) Mohiniyattam dance

The correct answer is Mohiniyattam.

Key Points

• Mohiniyattam:-

• Mohiniyattam is a classical dance form that combines elements of Bharatanatyam and Kathakali.

• Tevitichiyattam, Nangai Natakam and Dasiyattam are the forms of Mohiniyattam dance, which originated in Kerala, India.

Additional Information

• Odissi dance:-

• It is a classical dance form from the state of Odisha, India, which is known for its graceful movements and storytelling through dance.

• Kathakali dance:-

• It is a classical dance form from Kerala, India, which is known for its elaborate makeup, costumes, and facial expressions.

• Sattriya dance:-

• It is a classical dance form from the state of Assam, India, which is known for its devotional themes and fluid movements.

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Q42. Answer: (c) Cr

The correct answer is Cr.

Key Points

• Chromium:-

• The metal ion released from tannery industry that causes acute water pollution is chromium (Cr).

• Chromium is a heavy metal and a toxic pollutant that can cause severe health problems such as cancer, liver and kidney damage, and respiratory issues.

• Tannery industry uses chromium in the form of chromium salts as a tanning agent to process animal hides and skins into leather.

• The wastewater generated from tannery industry contains high levels of chromium, which is discharged into water bodies without proper treatment, leading to acute water pollution.

Additional Information

• Magnesium (Mg):-

• It is an essential mineral that is commonly found in water and soil. It is not considered a toxic pollutant and does not cause acute water pollution.

• Arsenic:-

• As is a toxic metalloid that can cause serious health problems such as skin lesions, cancer, and cardiovascular disease. It is commonly found in groundwater in some regions, but it is not directly related to tannery industry pollution.

• Zinc:-

• Zn is a trace element that is essential for human health and is commonly found in water and soil. It is not considered a toxic pollutant and does not cause acute water pollution.

Q43. Answer: (a) indicative planning

The correct answer is indicative planning.

Key Points

• Indicative planning:-

• It is a type of economic planning in which the government sets targets for various sectors and encourages private and public investment to achieve those targets.

Additional Information

• Rolling plan:-

• It is a type of plan that is continuously updated over a period of time, usually five years. It is used in India for economic planning.

• Decentralized planning:-

• It is a type of planning in which local communities are involved in decision-making and resource allocation.

• Centralized planning:-

• It is a type of planning in which the government controls all aspects of the economy, including resource allocation and production. It was commonly used in communist countries.

Q44. Answer: (c) R Praggnanandhaa

The correct answer is R Praggnanandhaa.

Key Points

• R Praggnanandhaa:-

• He defeated Magnus Carlsen and became the runner up in the FTX Crypto Cup 2022.

• Magnus Carlsen:-

• He is a Norwegian chess grandmaster and the current world chess champion.

Additional Information

• Saket Myneni:-

• He is an Indian tennis player, not a chess player.

• Vishwanathan Anand:-

• He is an Indian chess grandmaster, but he did not participate in the FTX Crypto Cup 2022.

• P Harikrishna:-

• He is an Indian chess grandmaster, but he did not defeat Magnus Carlsen in the FTX Crypto Cup 2022.

Q45. Answer: (c) Net indirect taxes

The correct answer is Net inidirect taxes.

Key Points

• Indirect taxes:-

• These will be subtracted from NNP at market price in the estimation of national income.

• Net indirect taxes refer to the taxes levied on the production and sale of goods and services, which are not directly included in the price of the product.

Additional Information

• Depreciation:-

• It is already accounted for in NNP at market price, hence it is not subtracted again.

• Net product taxes and net production taxes:-

• These are not subtracted from NNP at market price, they are already included in it.

• Estimation of national income:-

• It involves calculating the total income earned by all individuals and businesses in a country during a given period of time.

Q46. Answer: (d) Sentinel surveillance

The correct answer is Sentinel surveillance.

Key Points

• Missing cases of disease:-

• It refer to cases that have not been reported to health authorities.

• Surveillance:-

• It is the ongoing systematic collection, analysis, interpretation, and dissemination of data on a health event for use in public health action to reduce morbidity and mortality and to improve health.

• The four types of surveillance are overt, passive, active, and sentinel.

• Sentinel surveillance is specifically aimed at identifying missing cases of disease.

• Additional Information

• Overt surveillance:-

• It is a type of surveillance in which data collection is conducted openly and with full knowledge of those being monitored.

• Passive surveillance:-

• It is a type of surveillance in which data is collected from existing sources, such as hospitals and clinics, without active reporting by healthcare providers.

• Active surveillance:-

• It is a type of surveillance in which healthcare providers are contacted regularly to report specific conditions.

Q47. Answer: (b) Article 49

The correct answer is Article 49.

Key Points

• Article 49:-

• It protects monuments or a place of artistic or historical interest.

• This article directs the state to protect every monument or place or object of artistic or historical interest declared by or under law made by Parliament.

• The protection includes maintenance, preservation, and restoration of such monuments or places.

• The objective behind this article is to safeguard India's rich cultural heritage and history for future generations.

Additional Information

• Article 48: Directs the state to organize agriculture and animal husbandry on modern and scientific lines.

• Article 50: Requires the state to separate the judiciary from the executive.

• Article 51: Lays down the directive principles of state policy related to international relations and promoting respect for international law.

Q48. Answer: (b) Only i and iii

The correct answer is Only i and iii.

Key Points

• EShakti:-

• The EShakti project aimed to digitise the financial and non-financial data of all the SHGS.

• The EShakti project did not aim to bring awareness about Digital India among the farmers.

• The EShakti project was launched by NABARD in March 2015.

NABARD stands for National Bank for Agriculture and Rural Development.

• SHGS stands for Self Help Groups.

Q49. Answer: (d) taxes reduce the MPC

The correct answer is taxes reduce the MPC.

Key Points

• Proportional taxes:-

• A proportional tax is one where everyone pays the same percentage of their income in taxes. This means that as income increases, so does the amount of tax paid.

• It would help to reduce the autonomous expenditure multiplier because taxes reduce the MPC.

• The MPC, or marginal propensity to consume, is the fraction of additional income that a person or household spends. When taxes increase, disposable income decreases, which in turn reduces the MPC.

• By reducing the MPC, proportional taxes can help to stabilize the economy by dampening the effects of fluctuations in autonomous expenditure, such as changes in investment or government spending.

• Other types of taxes, such as regressive taxes (where lower-income people pay a higher percentage of their income in taxes) or progressive taxes (where higher-income people pay a higher percentage of their income in taxes), could have different effects on the MPC and the autonomous expenditure multiplier.

Q50. Answer: (d) Abdel Fattah El Sisi

The correct answer is Abdel Fattah El Sisi.

The Question is about 2023. In 2024 President Emmanuel Macron (France) was the chief guest on Republic Day Parade.

Key Points

• Abdel Fattah El Sisi:-

• Abdel Fattah El Sisi is the current President of Egypt, having assumed office in 2014.

• He was the Chief guest on 26th January 2023 Republic Day Parade.

• As the Chief guest on India's Republic Day Parade, he would have been accorded a ceremonial welcome and given the opportunity to witness India's military might and cultural diversity on display.

• India invites a prominent world leader as the Chief guest for its Republic Day Parade every year, and this is seen as a gesture of friendship and diplomatic outreach.

Additional Information

• Cyril Ramaphosa:-

• He is the current President of South Africa, and he was the Chief guest at India's Republic Day Parade in 2019.

• Shinzo Abe:-

• He is a former Prime Minister of Japan who served in that role from 2012 to 2020. He was the Chief guest at India's Republic Day Parade in 2014 and again in 2018.

• Jair Bolsonaro:-

• He is the current President of Brazil, having taken office in 2019. He has not yet been invited as the Chief guest for India's Republic Day Parade.

Q51. Answer: (c) 900 π cm2

Given:

Volume of sphere = 4500 π

Formula used:

Volume of sphere = (4/3) × π × r^3

Calculation:

Volume of sphere = 4500 π

=> (4/3) × π × r3 = 4500 π

=> (4/3) × r3 = 4500

=> r^3 = 45 × 25 × 3

=> r = 15

Surface area of sphere = 4 × π × r^2

=> 4 × $(15)^2$ × π

=> 4 × 225 × π = 900 π

Therefore The correct answer is 900 π.

???2

Q52. Answer: (c) 60

Given:

Let a = 1/3 rd of 15 = 5

b = 4/5 th of 25 = 20

c = 3/7 th of 35 = 15

Concept used:

If a : b :: c : d then,

fourth proportional (d) = (b × c)/a

Calculation:

5 : 20 : : 15 : x

=> x = (20 × 15)/5

=> x = 60

Therefore The correct answer is 60.

Q53. Answer: (c) 5109/115 cm

Given:

ΔABC ~ ΔPQR

Perimeter of ΔABC : Perimeter of ΔPQR = 36 : 23

QR = 3.8 cm

Formula used:

If ΔABC ~ ΔPQR

Perimeter of ΔABC/Perimeter of ΔPQR = Side of ΔABC/side of ΔPQR

Calculation:

ΔABC ~ ΔPQR

Perimeter of ΔABC / Perimeter of ΔPQR = BC/QR

=> 36/23 = BC/3.8

=> BC = (36 × 3.8)/23

=> BC = 684/115 = 5 109/115 cm

Therefore The correct answer is 5 109/115 cm.

Q54. Answer: (d) 40%

Calculation:

Road accident cases in serious in the year 2016 = 50

Road accident cases in serious in the year 2017 = 30

Percentage reduction = {(50 - 30) × 100}/50

=> {20 × 100}/50 = 40%

Therefore The correct answer is 40%.

Q55. Answer: (d) 13

Shortcut Trick

Divide the given equation $x^2 - 4x - 1 = 0$ by x to get $x - 1/x = 4$.

Use the direct algebraic shortcut: if $x - 1/x = k$, then $x^2 + 1/x^2 = k^2 + 2$.

Here, k = 4, so $x^2 + 1/x^2 = 4^2 + 2 = 18$.

Substitute this value in the required expression $(x^2 + 1/x^2 - 5) : 18 - 5 = 13$.

Therefore The correct answer is 13.

Alternate Method

Given:

$x^2 - 4x - 1 = 0$

Formula Used:

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

Calculations:

Divide the entire given equation by x:

$=> (x^2 / x) - (4x / x) - (1 / x) = 0$

=> $x - 4 - 1/x = 0$

=> $x - 1/x = 4$

Squaring both sides of the equation:

=> $(x - 1/x)^2 = 4^2$

=> $x^2 + 1/x^2 - 2(x)(1/x) = 16$

=> $x^2 + 1/x^2 - 2 = 16$

=> $x^2 + 1/x^2 = 16 + 2$

=> $x^2 + 1/x^2 = 18$

We need to find the value of $x^2 + 1/x^2 - 5$:

=> $18 - 5 = 13$

Therefore The correct answer is 13.

Additional Information

Algebraic Identities for Squares

If $x + 1/x = k$, then $x^2 + 1/x^2 = k^2 - 2$. Similarly, if $x - 1/x = k$, then $x^2 + 1/x^2 = k^2 + 2$.

Algebraic Identities for Cubes

If $x + 1/x = k$, then $x^3 + 1/x^3 = k^3 - 3k$. If $x - 1/x = k$, then $x^3 - 1/x^3 = k^3 + 3k$.

Sign Conversion Rule

The identity $(x + 1/x)^2 - (x - 1/x)^2 = 4$ can be used to switch signs. This implies if $x + 1/x = k$, then $x - 1/x = \sqrt{(k^2 - 4)}$.

Q56. Answer: (d) 2,592

Given:

Simple interest (S.I) = (1/4) × Principal (P)

Rate (R) = 4 × Time (T)

Formula used:

S.I = (P × R × T)/100

Calculation:

S.I = (P × R × T)/100

=> $(1/4) \times P = (P \times 4 \times T \times T)/100$

=> $T^2 = 25/4$

=> $T = \sqrt{(25/4)} = 2.5$ years

Rate = 2.5 × 4 = 10%

New rate = (10 + 2)% = 12%

Now,

S.I = (P × R × T)/100

=> (3600 × 12 × 6)/100

=> 36 × 12 × 6 = Rs.2592

Therefore The correct answer is Rs.2592.

Q57. Answer: (c) 41/40

Given:

$(\sin\theta - \cos\theta)/(\sin\theta + \cos\theta) = 4/5$

Concept used:

By componendo & dividendo rule:

=> (a + b)/(a - b) = p/q

=> a/b = (p + q)/(p - q)

By Pythagorean theorem:

H2 = P2 + B2

Where P = perpendicular ; B = base

and H = hypotenuse

Calculation:

$(\sin\theta + \cos\theta)/(\sin\theta - \cos\theta) = 5/4$

By componendo & dividendo rule:

=> Sin θ/cos θ = (5 + 4)/(5 - 4)
=> Tan θ = 9
Here, P = 9 & B = 1
By Pythagorean theorem:
$H^2 = P^2 + B^2$
=> $H = \sqrt{(9^2 + 1)}$
=> $H = \sqrt{82}$
$(\text{cosec}^2\theta)/(2-\text{cosec}^2\theta)$
=> $(\sqrt{82}/9)^2/\{2 - (\sqrt{82}/9)2\}$
=> (82/81)/{2 - 82/81}
=> (82/81)/{(162 - 82)/81}
=> (82/81)/{(80/81}
=> 82/80 = 41/40
Therefore The correct answer is 41/40.

Q58. Answer: (b) 66 2/3 km/h

Given:
Anil covers his 35% of journey with speed = 70 km/h
Covers 40% of the journey with speed = 80 km/h
Remaining distance at speed = 50 km/h
Formula used:
Average speed = total distance/total time taken
Calculation:
Let Anil covers total distance = 100 km
Time taken by Anil to cover 35 km = 35/70 = 1/2 h
Time taken by Anil to cover the next 40 km = 40/80 = 1/2 h
Time taken by Anil to cover the remaining 25 km = 25/50 = 1/2 h
Average speed = total distance/total time taken
=> 100/(0.5 + 0.5 + 0.5)
=> 1000/15
=> 200/3 = 66 2/3 km/h
Therefore The correct answer is 66 2/3 km/h.

Q59. Answer: (c) 10/12

Given:
ΔPQR is right angled at Q.
angle Q = 90°
PQ = 12 cm, PR = 13 cm
Concept used:
By Pythagoras theorem
=> $H^2 = P^2 + B^2$
$\tan\theta = P/B$, $\cot\theta = B/P$
Where H = hypotenuse ; P = perpendicular ; B = base
Calculation:
By Pythagoras theorem
=> H2 = P2 + B2
=> $(13)^2 = (12)^2 + B^2$
=> $B^2 = (169 - 144)$
=> $B = \sqrt{25} = 5$
Tan P = QR/PQ = 5/12
Cot R = QR/PQ =5/12
Tan P + cot R

=> (5/12) + (5/12)
=> 10/12
Therefore The correct answer is 10/12.

Q60. Answer: (c) 1,445

Given:
Fan marked price (M.P) = Rs. 1,700
Discount % = 15%
Concept used:
If discount is given then,
M.P : S.P = 100 : (100 - D)
Where S.P = selling price
Calculation:
Discount (D)% = 15%
M.P : S.P = 100 : 85 = 20 : 17
Now,
=> 20 units = 1700
=> 17 units = (1700 × 17)/20 = 1445
Therefore The correct answer is Rs. 1445.
Shortcut TrickCalculation:
Selling price (S.P) = Marked price (M.P) × (100 - D)%
=> 1700 × (100 - 15)%
=> 1700 × 85%
=> 1445
Therefore The correct answer is Rs. 1445.

Q61. Answer: (d) 10%

Given:
Marked price (M.P) = 125% × cost price (C.P)
Discount (D)% = 12%
Concept used:
if discount is D% then,
M.P : S.P = 100 : (100 - D)
Where S.P = selling price
Calculation:
Discount % = 12%
M.P : S.P = 100 : 88 = 25 : 22
And
C.P : M.P = 100 : 125 = 4 : 5
Marked price (M.P) must be same
C.P : M.P = (4 : 5) × 5 = 20 : 25
So, C.P : M.P : S.P = 20 : 25 : 22
Profit% = {(22 - 20) × 100}/20
=> 200/20 = 10%
Therefore The correct answer is 10%.
Shortcut TrickCalculation:
Profit% = 25 - 12 - {(25 × 12)/100}
=> 13 - 3 = 10%
Therefore The correct answer is 10%.

Q62. Answer: (d) 4

Given:
Divisor = 7

Remainder = 2
Formula used:
Dividend = (divisor × quotient) + remainder
Calculation:
Dividend = (divisor × quotient) + remainder
=> n = (7 × q) + 2
Multiply both sides by 9
=> 9n = (63 × q) + 18
(63 × q) is divisible by 7.
So, the remainder of 18/7 = 4.
Therefore The correct answer is 4.

Q63. Answer: (c) A

Calculation:
Aerated drinks sold by company A = 250 + 200 + 260 + 275 = 985
Aerated drinks sold by company B = 200 + 230 + 210 + 175 = 815
Aerated drinks sold by company C = 140 + 170 + 195 + 190 = 695
Aerated drinks sold by company D = 115 + 120 + 135 + 155 = 525
Clearly shows that company A sold most number of aerated drinks from 2019 to 2022.
Therefore The correct option is 3.

Q64. Answer: (c) diameter

Calculation:
The longest chord of a circle is its diameter.
Therefore The correct option is 3.

Q65. Answer: (c) Rs. 20000

Shortcut Trick
For 2 years, the difference between CI and SI is calculated directly as: $D = P \times (R/100)^2$
=> $162 = P \times (9/100)^2$
=> $162 = P \times (81 \div 10000)$
=> $P = (162 \times 10000) \div 81$
=> $P = 2 \times 10000 = 20000$
Therefore The correct answer is Rs. 20000.
Alternate Method
Given:
Rate (R) = 9% per annum
Time (T) = 2 years
CI − SI = Rs. 162
Principal P
9%
9%
Yr 1: 9% of P
Yr 2: 9% of P
9%
Diff = Rs. 162
CI − SI = 9% of 9% of P
Formula Used:
Effective SI Rate = R × T
Effective CI Rate (for 2 years) = R + R + (R × R) ÷ 100
Calculations:
=> Let the principal amount be P.
=> Effective SI rate for 2 years = 9% × 2 = 18%

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=> Effective CI rate for 2 years = 9% + 9% + (9 × 9) ÷ 100 = 18.81%

=> Difference in effective rates = 18.81% − 18% = 0.81%

=> 0.81% of P = 162

=> (0.81 ÷ 100) × P = 162

=> P = (162 × 100) ÷ 0.81

=> P = 16200 ÷ 0.81 = 20000

Therefore The correct answer is Rs. 20000.

Additional Information

Difference between CI and SI for 3 years

The formula for the difference between CI and SI for 3 years is $D = P \times (R/100)^2 \times (3 + R/100)$.

Effective Rate of Compound Interest

For 2 years, the effective compound interest rate can be calculated quickly using the successive percentage change formula: R_(eff) = a + b + (a × b) ÷ 100.

Core Concept of Difference

In the first year, SI and CI are always identical. The difference for two years arises entirely because of the interest earned on the first year's interest.

Q66. Answer: (c) 48 cm

Given:

Radius of 1st circle = 36 cm

Radius of 2nd circle = 16 cm

Formula used:

If two circle touches each other externally and a common tangent is passing then,

Length of common tangent = √(4 × r1 × r2)

Calculation:

Length of common tangent (PQ) = √(4 × 36 × 16)

=> 2 × 6 × 4 = 48 cm

Therefore The correct answer is 48 cm.

Q67. Answer: (b) 4.8

Given:

AB and CD are two chords intersect inside the circle.

AF = 2.4 cm ; BF = 1.8 cm ; CD = 5.7 cm

Concept used:

If two chords namely AB and PQ intersect inside the circle M, then

AM × MB = PM × MQ

Calculation:

AB and CD are two chords that intersect inside the circle at F.

=> AF × FB = CF × DF

=> 2.4 × 1.8 = x × (5.7 - x)

=> $5.75x - x^2 = 4.32$

=> $x^2 - 5.7x + 4.32 = 0$

=> $x^2 - 4.8x - 0.9x + 4.32 = 0$

=> x (x - 4.8) - 0.9 (x - 4.8)

=> (x - 0.9) × (x - 4.8)

Longer segment (x) = 4.8 cm

Therefore The correct answer is 4.8 cm.

Q68. Answer: (a) (2x + y - 3)(2x - y + 3)

Formula used:

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

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

Calculation:

=> 4x2 - y2 + 6y - 9
=> 4x2 - (y2 - 6y + 9)
=> 4x2 - (y - 3)²
=> (2x)² - (y - 3)2
=> (2x + y - 3) (2x - y + 3)
Therefore The correct answer is (2x + y - 3) (2x - y + 3).

Q69. Answer: (b) 29 12/17 %

Given:
Expenditure of A = 68% × income
Concept used:
Income = expenditure + savings
Calculation:
Let A's income = Rs.100
Income = expenditure + savings
=> 100 = 68 + 32
Now income increases with 25% and saving increases by 15%.
=> 125 = 88.2 + 36.8
Percentage increment in expenses = {(88.2 - 68)× 100}/68
=> {20.2 × 100}/68
=> {20.2 × 25}/17
=> 505/17 = 29 12/17 %
Therefore The correct answer is 29 12/17 %.

Q70. Answer: (d) Rs. 20,25,000

Calculation:
=> (25 + 15)% = 45 lakh
=> 1% = 45/40
=> 18% = (45 × 18)/40 = 20.25 Lakh
Therefore The correct answer is Rs. 20,25,000.

Q71. Answer: (d) 45°

Given:
tan A = 1/2
tan B = 1/3
Formula used:
Tan (A + B) = (tan A + tan B)/{1 - (tan A × tan B)}
Tan 45° = 1
Calculation:
Tan (A + B) = (tan A + tan B)/{1 - (tan A × tan B)}
=> (1/2) + (1/3)/{1 - (1/6)}
=> (5/6)/{5/6}
=> Tan (A + B) = 1
=> Tan (A + B) = tan 45°
So, A + B = 45°
Therefore The correct answer is 45°.

Q72. Answer: (c) Rs. 3,675

Given:
Profit % = 5%
Concept used:
Cost price is always constant.
If profit is P% then,

C.P : S.P = 100 : (100 + P%)
Where C.P = cost price
and S.P = Selling price
Calculation:
Profit % = 5%
C.P : S.P = 100 : 105
Now, profit is changes to 10%
C.P : S.P = 100 : 110
According to the question:
=> (110 - 105) = 5 units = 175
=> 1 unit = 175/5 = 35
=> 100 units = 3500
Selling Price of the good = 105 × 35
=> Rs. 3675
Therefore The correct answer is 3675.

Q73. Answer: (b) (4√6-6)/5

Given:
x = (√6-1)^(1/3)
Formula used:
$(a - b)^3 = a^3 - b^3 - 3ab \times (a - b)$
Calculation:
x = (√6-1)^(1/3)
Cube both sides
=> $x^3 = \sqrt{6} - 1$
putting the value of x in inverse
$(1/x^3) = 1/(\sqrt{6} - 1)$
=> $(\sqrt{6} + 1)/(\sqrt{6})^2 - 1$
=> $(\sqrt{6} + 1)/5$
Putting the values in the equation:
$(x-1/x)^3+3(x-1/x)$
=> $x^3 - (1/x^3) - 3(x - 1/x) + 3(x - 1/x)$
=> $\sqrt{6} - 1 - \{(\sqrt{6} + 1)/5\}$
=> $(5\sqrt{6} - 5 - \sqrt{6} - 1)/5$
=> $(4\sqrt{6} - 6)/5$
Therefore The correct answer is (4√6-6)/5.

Q74. Answer: (b) 7 7/11

Given:
Time taken to do a piece of work by X = 14 days
Time taken to do a piece of work by Y = 28 days
Time taken to do a piece of work by Z = 42 days
Concept used:
Total work = efficiency × time
Calculation:

Efficiency	Person	Time	Total work
6	X	14	84
3	Y	28	
2	Z	42	

Now,
Time taken to complete the work together = 84/11 = 7 7/11 days.

Therefore The correct answer is 7 7/11 days.

Q75. Answer: (d) 2 : 7

Shortcut Trick

Cost Price (CP) of the mixture = 20 × (100 ÷ 125) = Rs. 16 per kg.

By alligation rule, Ratio = (16 − 14) : (23 − 16) = 2 : 7.

Therefore The correct answer is 2 : 7.

Alternate Method

Given:

Price of 1^(st) variety of wheat = Rs. 23/kg

Price of 2^(nd) variety of wheat = Rs. 14/kg

Selling Price (SP) of the mixture = Rs. 20/kg

Profit = 25%

Formula Used:

CP = SP × [100 ÷ (100 + Profit%)]

Quantity 1 / Quantity 2 = (Mean CP − Price 2) / (Price 1 − Mean CP)

Wheat 1

Rs. 23/kg

Wheat 2

Rs. 14/kg

Mean CP

Rs. 16/kg

16 − 14 = 2

23 − 16 = 7

Ratio = 2 : 7

Calculations:

=> Cost Price of the mixture = 20 × [100 ÷ (100 + 25)]

=> CP = 20 × (100 ÷ 125)

=> CP = 20 × (4 ÷ 5) = Rs. 16/kg

=> Applying the rule of alligation to find the ratio of quantities:

=> Quantity of Wheat 1 : Quantity of Wheat 2 = (Mean CP − Price of Wheat 2) : (Price of Wheat 1 − Mean CP)

=> Ratio = (16 − 14) : (23 − 16)

=> Ratio = 2 : 7

Therefore The correct answer is 2 : 7.

Additional Information

Rule of Alligation

When two ingredients are mixed, the ratio of their quantities is given by: Quantity of Cheaper / Quantity of Dearer = (Price of Dearer − Mean Price) / (Mean Price − Price of Cheaper).

Cost Price and Selling Price Relationship

The Cost Price (CP) can be directly calculated from the Selling Price (SP) and Profit percentage using the formula: CP = SP × [100 ÷ (100 + Profit%)].

Replacement Method

If V is the total volume and x volume is replaced with water n times, the final amount of pure liquid is: Final = Initial × $(1 - x/V)^n$.

Q76. Answer: (b) Provisional

The solution is in Hindi. Read it online.

Q77. Answer: (a) aspires

The solution is in Hindi. Read it online.

Q78. Answer: (c) reprehensible

The solution is in Hindi. Read it online.

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Q79. Answer: (d) fundraiser

The solution is in Hindi. Read it online.

Q80. Answer: (b) better

The correct answer is: Better.

Key Points

• The use of "more" before "better" is incorrect as "better" is already a comparative form of the adjective "good".

• The correct comparative form of "good" is "better", and the superlative form is "the best".

• Therefore, the correct sentence should be "The new restaurant is better than the old one."

Hence, option 2 is the correct answer.

Important Points

• The comparative and superlative forms of adjectives are used to compare and describe different degrees of a particular quality.

• Comparative Form:

• Usage: The comparative form is used when you are comparing two things or two groups.

• Formation: Most adjectives form the comparative by adding "-er" (e.g., faster, taller) or by using "more" before the adjective (e.g., more beautiful, more interesting).

• Example: The cat is faster than the dog.

• Superlative Form:

• Usage: The superlative form is used when you are comparing more than two things or groups, indicating the highest degree of quality.

• Formation: Most adjectives form the superlative by adding "-est" (e.g., fastest, tallest) or by using "most" before the adjective (e.g., most beautiful, most interesting).

• Example: The cheetah is the fastest land animal.

Q81. Answer: (d) The students were not allowed to leave the lecture by the teacher.

The correct answer is: The students were not allowed to leave the lecture by the teacher.

Key Points

• In passive voice, the object of the active sentence becomes the subject of the passive sentence.

• Active voice structure: Subject + Verb + Object

• Passive voice structure: Object of the Active Sentence + To Be Verb (am/is/are/was/were) + Past Participle of the Main Verb + (By + Subject - optional)

• The verb is changed to a form of "be" + past participle.

• "The students" becomes the subject of the passive sentence.

• "The teacher" becomes the agent (the doer of the action, mentioned with "by").

• "Did not allow" becomes "were not allowed" in passive voice.

Therefore, the correct answer is option 4.

Q82. Answer: (a) Ins and outs

The solution is in Hindi. Read it online.

Q83. Answer: (c) as journalist

The correct answer is: "as journalist."

Key Points

• The phrase "as journalist" is not a complete sentence and does not have a subject.

• A complete sentence would be "as a journalist" or "as the journalist."

• In the context of the sentence, "as a journalist" specifies the role or profession that Washington Irving assumed when he joined his brother Peter's newspaper.

• It's a grammatical convention to use the indefinite article in such constructions

• This is a common error in English, where articles (a, an, the) are omitted before nouns.

Therefore, the correct answer is option 3.

Corrected sentence: Washington Irving's writing career started at the tender age of nineteen when he joined his brother Peter's newspaper, The Morning Chronicle, as a journalist.

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Q84. Answer: (d) ABCD

The correct answer is: ABCD.

Key Points

• Sentence A introduces the main character and the rabbit she sees.

• Sentence B describes how the main character finds a door and opens it.

• Sentence C adds suspense by hinting at a strange sensation the main character feels.

• Sentence D provides a conclusion to the paragraph by revealing that the main character feels like she's in a dream.

• In the correct order (ABCD), the sentences flow logically, each building upon the previous one to create a coherent narrative.

• The paragraph begins with an observation, moves to action, introduces a mysterious element, and concludes with the protagonist's emotional response, resulting in a well-structured and meaningful sequence of events.

Therefore, the correct answer is option 4.

Q85. Answer: (a) peeked

The solution is in Hindi. Read it online.

Q86. Answer: (a) raze

The solution is in Hindi. Read it online.

Q87. Answer: (c) ADBC

The correct answer is: ADBC

Key Points

• Sentence A introduces the topic of the new movie and its anticipation among fans.

• Sentence D sets the scene in the movie theatre and highlights the audience's excitement.

• Sentence B reinforces the idea of the theatre being packed with eager viewers.

• Sentence C provides the action-packed opening sequence that captures the audience's attention.

• This sentence describes the beginning of the movie, specifically mentioning an exciting action sequence that captivated the audience.

• In this order, the paragraph flows logically from the anticipation of the movie to the crowded theatre, the moment before the movie starts, and finally, the description of the movie's exciting opening.

• The coherence in the sequence creates a well-structured and meaningful narrative.

Therefore, the correct answer is option 3.

Q88. Answer: (a) Suspicion

The solution is in Hindi. Read it online.

Q89. Answer: (c) Queer fish

The solution is in Hindi. Read it online.

Q90. Answer: (a) D, A, C, E, B

The correct answer is: D, A, C, E, B

Key Points

• The sentence talks about the importance of treating other people as one would like to be treated.

• The first part of the sentence (D) sets the context by stating that the subject now knows something.

• The second part (A) introduces the main idea of the sentence, which is the importance of treating others well.

• The third part (C) specifies what it means to treat others well, which is to treat them as one would like to be treated.

• The fourth part (E) clarifies who should be treated this way, which is other people.

• The last part (B) completes the sentence by stating the action that should be taken, which is to treat others well.

Therefore, the correct answer is option 1.

Q91. Answer: (b) Aristocracy

The solution is in Hindi. Read it online.

Q92. Answer: (a) A large number of people or animals suffering from the same disease at the same time

The solution is in Hindi. Read it online.

Q93. Answer: (d) The homework is assigned by the professor every week.

The correct answer is: The homework is assigned by the professor every week.

Key Points

• The given sentence is in active voice, where the subject (professor) performs the action (assigns) on the object (homework).

• In passive voice, the object (homework) becomes the subject, and the verb (assigns) is changed to its past participle form (assigned).

• The sentence in passive voice will have the form "Subject + auxiliary verb (is/was) + past participle form of verb + by + object."

• Therefore, the correct passive voice sentence is "The homework is assigned by the professor every week."

Thus, option 4 is the correct answer.

Q94. Answer: (d) Akused

The solution is in Hindi. Read it online.

Q95. Answer: (b) Blemished

The solution is in Hindi. Read it online.

Q96. Answer: (d) essential

The solution is in Hindi. Read it online.

Q97. Answer: (a) social

The solution is in Hindi. Read it online.

Q98. Answer: (d) focus

The solution is in Hindi. Read it online.

Q99. Answer: (c) Coordinated

The solution is in Hindi. Read it online.

Q100. Answer: (b) realise

The solution is in Hindi. Read it online.

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