SSC CHSL Tier-1 2023: Official Paper (Held On: 07 Aug, 2023 Shift 4) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2023 • 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 pair of letter-clusters which follows the same pattern as that followed by the two sets of pair of letter-clusters given below. Both pairs of letter-clusters follow the same pattern.

EKM : DIJ

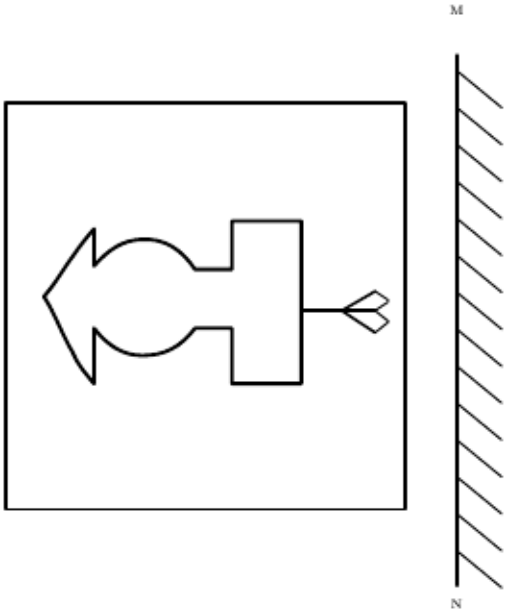
LPT : KNQ

(a) ABC : XYZ
(b) PWZ : OUW
(c) PJQ : NHO
(d) JMR : LOT

Q2. In a certain code language, 'FLOWER' is coded as '85', 'STARS' is coded as '82' and 'MOON' is coded as '61'. How will 'PACK' be coded in that language?

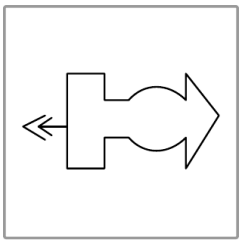
(a) 30
(b) 32
(c) 36
(d) 35

Q3. Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

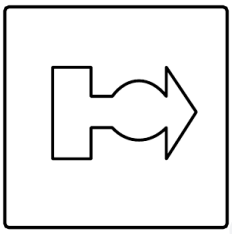


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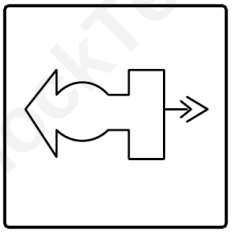
(a)



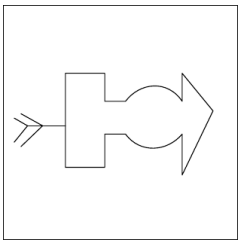
(b)



(c)



(d)



Q4. If 28 May 2015 is Thursday, then what will be the day of the week on 24 April 2023?

(a) Friday
(b) Wednesday
(c) Monday
(d) Sunday

Q5. 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?

(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/subtracting /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) 8 - 72
(b) 11 - 143
(c) 7 - 63
(d) 9 - 99

Q6. Four number pairs have been given out of which three are alike in some manner and one is different. Select the one that is different.

(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.

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Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(a) 31 - 165
(b) 24 -125
(c) 13 - 75
(d) 19 - 105

Q7. 'BDFI' is related to 'GIKN' in a certain way based on the English alphabetical order. In the same way, 'KMOQ' is related to 'PRTV'. To which of the following is 'CEGI' related, following the same logic?

(a) HJNO
(b) HJLN
(c) HINO
(d) HMJO

Q8. Three of the following four letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

(a) TSQ
(b) JHG
(c) PNM
(d) XVU

Q9. If 20 March 2001 is Tuesday, then what will be the day of the week on 23 April 2021?

(a) Friday
(b) Tuesday
(c) Monday
(d) Wednesday

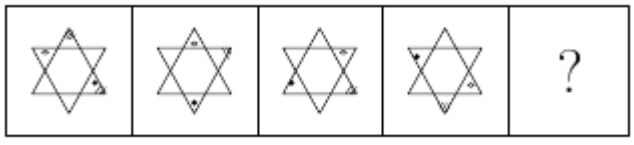
Q10. 16 is related to 85 in a certain way. Following the same logic, 26 is related to 135. To which of the following is 37 related, following the same logic?

(a) 190
(b) 210
(c) 180
(d) 200

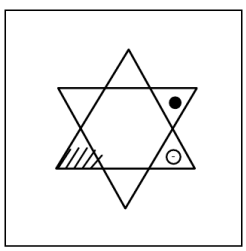
Q11. EGCB is related to MOKJ in a certain way based on the English alphabetical order. In the same way, PRNM is related to XZVU. To which of the following is KMIH related to, following the same logic?

(a) SUQP
(b) RTQP
(c) SVOP
(d) QSPU

Q12. Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

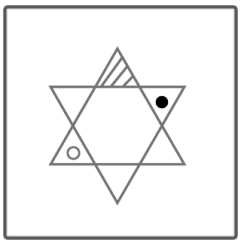


(a)

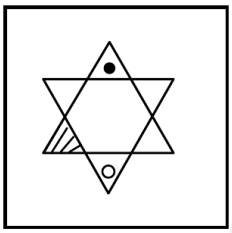


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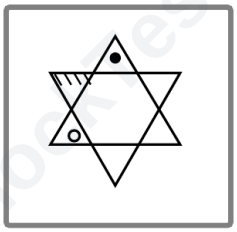
(b)



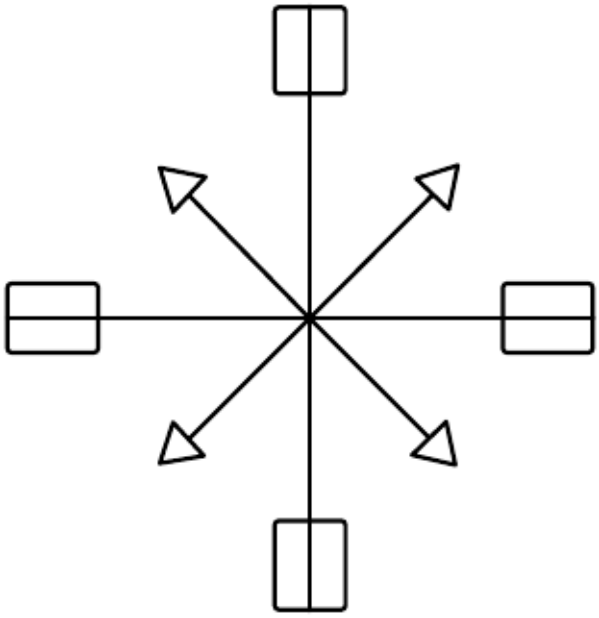
(c)



(d)



Q13. Identify the number of rectangles in the given figure.



(a) 14
(b) 10
(c) 12
(d) 8

Q14. In a certain code language,

A + B means 'A is the sister of B',
A - B means 'A is the mother of B',
A × B means 'A is the husband of B' and
A ÷ B means 'A is the father of B'.

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Based on the above, how is S related to U if 'M + U - H ÷ S × N'?

(a) Wife's father
(b) Sister's son
(c) Father's son
(d) Son's son

Q15. In a certain code language,

P + Q means P is the wife of Q,

P - Q means P is the brother of Q,

P/Q means P is the son of Q,

P × Q means P is the daughter of Q.

Based on the above, how is T related to B in B - D × L + T?

(a) Sister
(b) Brother
(c) Mother
(d) Father

Q16. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

AGMQ, BHLP, CIKO, ?

(a) JJKL
(b) DJMP
(c) DJJN
(d) TOKC

Q17. Which number will replace the question mark (?) to complete the given series?

26, 37, 50, 65, ?, 101

(a) 84
(b) 78
(c) 80
(d) 82

Q18. If 'A' stands for '÷', B' stands for '×', C' stands for '+' and 'D' stands for '-', what will come in place of the question mark '?' in the following equation?

118 A 2 C 14 D 5 B 8 = ?

(a) 33
(b) 44
(c) 22
(d) 11

Q19. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion's logically follow/s from the given statements.

Statements:

All cranes are mixers.

Some mixers are trucks.

All trucks are vans.

Conclusion (I): No crane is a van.

Conclusion (II): Some vans are mixers.

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

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Q20. What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and '×' and '÷' are interchanged?

58 - 17 ÷ 6 + 322 × 23 = ?

(a) 153
(b) 138
(c) 161
(d) 146

Q21. In a certain code language, 'CLIP' is coded as '3749' and 'PICK' is coded as '4673' What is the code for 'K' in the given code language?

(a) 4
(b) 7
(c) 6
(d) 3

Q22. What should come in place of the question mark (?) in the given series?

193, 206, 214, 227, ?, 248

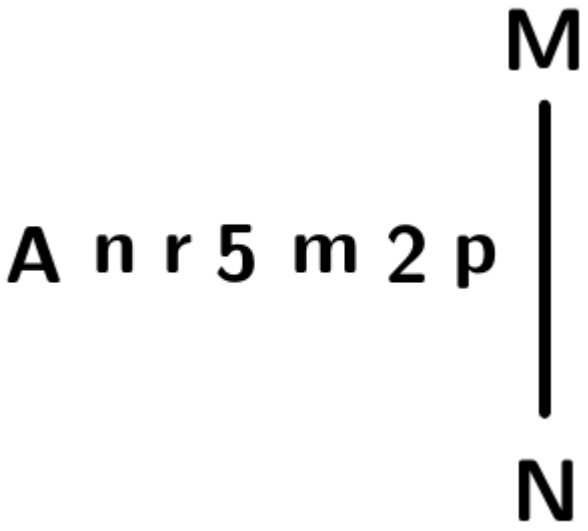
(a) 235
(b) 240
(c) 238
(d) 253

Q23. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

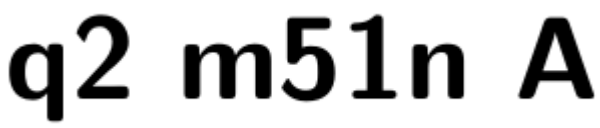
11 : 133 :: 16 : ? :: 22 : 507

(a) 280
(b) 270
(c) 273
(d) 290

Q24. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



(a)



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(b)



(c)



(d)



Q25. Select the combination of letters that when sequentially placed in the blanks of the given series will make the series logically complete.

DE_GYUA_TK_GOAQ_

(a) FGVA
(b) VGFA
(c) FGVG
(d) BCHL

GENERAL INTELLIGENCE

Q26. The Birsa Munda International Hockey Stadium, the largest hockey stadium in the country, is situated in:

(a) Bhubaneswar, Odisha
(b) Jharsuguda, Odisha
(c) Cuttack, Odisha
(d) Rourkela, Odisha

Q27. Which of the following is NOT a subdivision of the Meghalaya plateau?

(a) Khasi
(b) Jaintia
(c) Garo
(d) Dhansiri

Q28. Which period in India is described as Plan Holiday?

(a) 1990 to 1993
(b) 1966 to 1969
(c) 1956 to 1960
(d) 1947 to 1950

Q29. What is the percentage horizontal reservation for women in the government jobs bill of Uttarakhand, approved by Governor Gurmit Singh on January 10, 2023?

(a) 30%
(b) 40%
(c) 20%
(d) 50%

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Q30. Who among the following Indian female boxers won the gold medal in the 1^(st) Edition of Elorda Boxing Cup 2022 held in Kazakhstan?

(a) Nikhat Zareen
(b) Mary Kom
(c) Alfiya Pathan
(d) Lovlina Borgohain

Q31. Who described Indian federal system as a bargaining federalism?

(a) KC Wheare
(b) Ivor Jennings
(c) Granville Austin
(d) Morris Jones

Q32. Which of the following is the correct sequence of national income from broader to narrower concepts?

(a) GNP at market prices - NNP at market prices - GNP at factor cost - NNP at factor cost
(b) Personal disposable income - Personal income - GNP at market prices - GNP at factor cost
(c) GNP at factor cost - GNP at market prices - NNP at market prices - Personal income
(d) GNP at factor cost - NNP at factor cost- Personal income - Personal disposable income

Q33. Laho is the dance form of which state?

(a) Manipur
(b) Sikkim
(c) Meghalaya
(d) Kerala

Q34. The musical instrument Sarod is associated with:

(a) Zakir Hussain
(b) Allahrakha
(c) Amjad Ali Khan
(d) Khayyam

Q35. Which of the following programmes was launched by NABARD in 2015 to promote the livelihood of the people in both farm and off-farm activities?

(a) LWE
(b) LEDP
(c) MEDP
(d) BLP

Q36. Which of the following teams won the Raja Bhalindra Singh trophy at the 36^(th) National Games?

(a) Services
(b) Uttar Pradesh
(c) Maharashtra
(d) Punjab

Q37. Which of the following is a festival and dance?

(a) Baisakhi
(b) Ugadi
(c) Pongal
(d) Bihu

Q38. Which organic chemical compound is reacted with nitrous acid at 273-278K to prepare benzenediazonium chloride?

(a) Hydrazine
(b) Toluene
(c) Aniline
(d) Pyridine

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Q39. Balban served as naib to which of the following sultans of Delhi?

(a) Iltutmish
(b) Razia
(c) Nasiruddin Mahmud
(d) Qutb ud-Din Aibak

Q40. Which of the following are cryptogam?

(a) Gymnosperm
(b) Dicots
(c) Angiosperm
(d) Pteridophyta

Q41. What is the name of the two small moons orbiting Mars discovered by American astronomer Asaph Hall in 1877?

(a) Phobos and Deimos
(b) Miranda and Triton
(c) Enceladus and Titan
(d) Charon and Dysnomia

Q42. In December 2022, Meghana Ahlawat was elected as the President of _____.

(a) Table Tennis Federation of India
(b) BCCI
(c) Hockey India
(d) Wrestling Federation of India

Q43. _____ connect India's four big metro cities of Delhi-Mumbai-Chennai-Kolkata.

(a) North-South Corridor of NHDP
(b) National Highway 44
(c) National Highway 47A
(d) Golden Quadrilateral

Q44. Who became the first Vice-Chancellor of Jawaharlal Nehru University in 1969?

(a) BD Nagchaudhuri
(b) G Parthasarathi
(c) Y Nayudamma
(d) KR Narayanan

Q45. Who among the following received the Sangeet Natak Akademi Award of 2019 in the Kathakali classical dance category?

(a) OS Arun
(b) Manju Nandan Mehta
(c) Kottakkal Nandakumaran Nair
(d) Vinayak Torvi

Q46. According to Census of India 2011, which state in India has the lowest literacy rate?

(a) Jharkhand
(b) Rajasthan
(c) Bihar
(d) Arunachal Pradesh

Q47. Who issues Rs. 10 notes in India?

(a) Reserve Bank of India
(b) State Bank of India
(c) Union Bank of India
(d) Central Bank of India

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Q48. Which of these is NOT the correctly stated component of the expenditure method of measuring national income?

(a) Final investment expenditure by firms
(b) Final government expenditure
(c) Export plus import expenditure
(d) Final consumption expenditure by households

Q49. What is the IUPAC name of allylamine which is used to make pharmaceuticals and other chemicals?

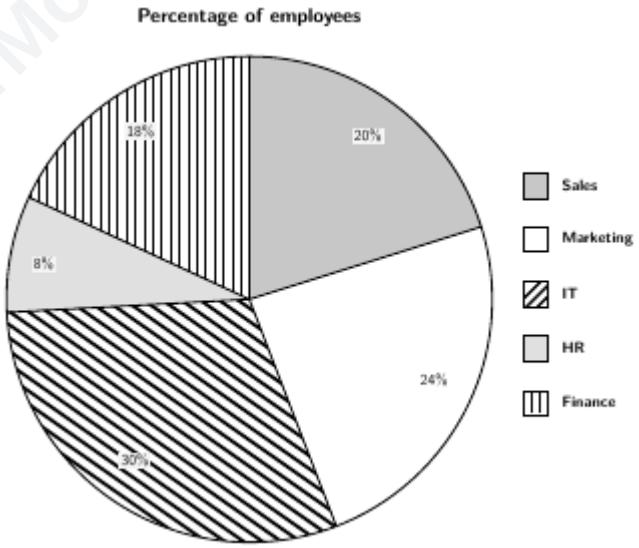
(a) Propan-1-amine
(b) Benzenamine
(c) N-Methylethanamine
(d) 2-Propen-1-amine

Q50. The idea of concurrent list in the Indian Constitution was taken from _____.

(a) Germany
(b) Australia
(c) Denmark
(d) Ireland

QUANTITATIVE APTITUDE

Q51. The pie chart given below shows the percentage of employees in various departments of a company having a total workforce of 7200.



Suppose the company plans to hire 324 more employees in the upcoming recruitment drive, of which 25% will be for the IT department, what would be the percentage increase in the number of employees in the IT department after the recruitment drive?

(a) 3.75%
(b) 9%
(c) 12.5%
(d) 5%

Q52. Harsha's expenditure is 45% of her income. If the income from the next month is increased by 15% and the amount she saved each month remains the same, then find the percentage increase in her expenditure (rounded off to 2 decimal places).

(a) 33.33%
(b) 15.00%
(c) 45.00%
(d) 27.50%

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Q53. Simplify the following expression.

$(0.96\times0.96\times0.96+0.04\times0.04\times0.04)/(0.96\times0.96-0.96\times0.04+0.04\times0.04)$

(a) 0
(b) 0.82
(c) 2
(d) 1

Q54. Simplify the given expression.

$(x^3+y^3+z^3-3xyz)/((x-y)^2+(y-z)^2+(z-x)^2)$

(a) 1/3 (x + y + z)
(b) (x + y + z)
(c) 1/4 (x + y + z)
(d) 1/2 (x + y + z)

Q55. In a division sum, the divisor is 11 times the quotient and 5 times the remainder. If the remainder is 44, then the dividend is:

(a) 8888
(b) 4448
(c) 8444
(d) 4444

Q56. The difference between 24 and the mean proportional of 7 and 63 is:

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

Q57. Simplify the given expression. $(\sin^2 32°+\sin^2 58°)/(\cos^2 32°+\cos^2 58°) + \sin^2 53° + \cos 53°\sin 37°$

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

Q58. A vertical pillar 42 cm long casts a 35 cm long shadow. At the same time, a tower casts a shadow 25 m long. Find the height of the tower.

(a) 28 m
(b) 35 m
(c) 32 m
(d) 30 m

Q59. If TM and TN are the two tangents to a circle with centre O so that angle MON = 105°, then angle MTN will be equal to:

(a) 70°
(b) 60°
(c) 75°
(d) 85°

Q60. A person purchased ten boxes of grapes at a cost of Rs. 2,000 per box. Each box contained 20 kgs of grapes. He sold each box at the rate of Rs. 2,500 per box. But on the whole 10 kgs of grapes were damaged. Further he paid Rs. 1,000 as transport charges. Find his gain or loss.

(a) Gain Rs. 2,050
(b) Loss Rs. 1,000
(c) Gain Rs. 2,750
(d) Loss Rs. 1,500

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Q61. A ship goes at 18 km/h downstream and at 16 km/h upstream. What will be the speed of the ship in still water?

(a) 14 km/h
(b) 17 km/h
(c) 16 km/h
(d) 15 km/h

Q62. Radha deposited Rs. 1,60,000 at a 10% rate of compound interest per annum for two years. If the interest is compounded semi-annually, then what is the compound interest (in Rs.)?

(a) 16,400
(b) 34,481
(c) 74,256
(d) 33,600

Q63. The perpendicular distance from the centre of a circle to the chord is 20 cm. Calculate the chord's length in centimetres if the circle's diameter is 58 cm.

(a) 42
(b) 21
(c) 56
(d) 28

Q64. Refer to the given table and answer the following question:

Students	Weight (kg)	Height (m)
A	60	1.23
B	70	1.80
C	52	1.52
D	50	1.68
E	48	1.12

Which student has the least weight and least height among all?

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

Q65. If a sum of money becomes Rs. 6,000 in 3 years and Rs. 10,500 in 7 years and 6 months at the same rate of simple interest, then what is the rate of interest?

(a) 33 1/3 %
(b) 25 1/2 %
(c) 45 2/3 %
(d) 66 1/3 %

Q66. A toothpaste marked at Rs. 90 is sold for Rs. 78. The rate of discount is:

(a) 15.23%
(b) 14.22%
(c) 12.13%
(d) 13.33%

Q67. The value of $1/\sin\theta-(\cot^2\theta)/(1+\text{cosec}\,\theta)$ is:

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

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Q68. The value of (sin 58^o)/(cos 32^o)+(sin 55^osec 35^o)/(tan 5^otan 45^otan 85^o) is equal to:

(a) 2
(b) 1
(c) 0
(d) 3

Q69. Find the volume of the largest right circular cone that can be cut out from a cube whose edge is 3 1/2 cm, correct to two places of decimals (use π = 22/7).

(a) 13.21 cm^3
(b) 21.31 cm3
(c) 11.23 cm3
(d) 12.13 cm3

Q70. The diameter PQ of a circle with centre O is perpendicular to the chord RS. PQ intersects RS at T. If RS = 16 cm and QT = 4 cm, what is the length (in cm) of the diameter of the circle?

(a) 20
(b) 48
(c) 24
(d) 10

Q71. Table shows year wise productions of four crops (in tons) in a village during 2018-2019 to 2021-2022.

Year\Crops	Pulses	Wheat	Rice	Others
2018-19	410	720	400	600
2019-20	380	680	350	580
2020-21	320	790	420	510
2021-22	250	690	270	490

The difference between the average production of wheat and the average production of pulses (in tons) over the year is:

(a) 380
(b) 360
(c) 370
(d) 350

Q72. If (x-1/(x-2))=7, then the value of $(x - 2)^3 - 1/((x-2)^3)$ is:

(a) 130
(b) 115
(c) 140
(d) 125

Q73. In two alloys, the ratio of Aluminium to Zinc are 5 : 6 and 3 : 5. If 242 kg of the first alloy and 144 kg of the second alloy are mixed, then the ratio of Aluminium and Zinc in the new alloy will be:

(a) 76 : 117
(b) 82 : 111
(c) 93 : 100
(d) 68 : 125

Q74. If Sita and Gita can do a job together in 4 days and Sita alone can do the job in 6 days, in how many days can Gita do the job alone?

(a) 8
(b) 10
(c) 12
(d) 14

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Q75. A shopkeeper purchased an air conditioner for Rs. 24,000. He marks it for Rs. 30,000. He sells it to a customer at a discounted price and still earns a profit of 9%. What is the rate of discount given by the shopkeeper to the customer?

(a) 10.8%
(b) 12.8%
(c) 13.8%
(d) 14.8%

GENERAL AWARENESS

Q76. Direction: Select the option that expresses the given sentence in active voice.

The agency had been robbed by two masked intruders.

(a) Two masked intruders had rob the agency.
(b) Two masked intruders had been robbed the agency.
(c) Two masked intruders had robbed the agency.
(d) Two masked intruders have been robbing the agency.

Q77. Direction: Select the most appropriate ANTONYM of the given word.

Intensive

(a) Real
(b) Dare
(c) Fierce
(d) Superficial

Q78. Direction: The following sentence has been split into four segments. Identify the segment that contains a grammatical error and select the option which rectifies that error.

A lot of adulterants / are chemicals that can lead / to an range of health problems / in both children and adults.

(a) A lot of adulterants
(b) are chemical that can lead
(c) in both children and adults.
(d) to an range of health problems

Q79. Direction: Select the most appropriate option that can substitute the underlined segment in the following sentence. If there is no need to substitute it, select 'No substitution required.'

The invigilator did not know that the four friends were exchanging notes right at the front of him.

(a) of front of him
(b) for front of him
(c) No substitution required
(d) in front of him

Q80. Direction: Select the most appropriate ANTONYM to substitute the underlined word in the given sentence.

The preparations for the picnic have been meticulously completed by the programme committee on time.

(a) Mesmerisingly
(b) Prudently
(c) Chaotically
(d) Serenely

Q81. Direction: Select the option that can be used as a one-word substitute for the given group of words.

Affected by an undesirable condition or unpleasant feeling

(a) Cancelled
(b) Indifferent
(c) Modest
(d) Stricken

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Q82. Direction: Select the most appropriate synonym of the given word.

Bewitching

(a) Painful
(b) Alluring
(c) Rude
(d) Repulsive

Q83. Direction: Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No correction required'.

The mermaid murmured that it had been very difficult for her to live far from human civilisation.

(a) it had
(b) No correction required
(c) this have been
(d) this had been

Q84. Direction: Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

P. an unparalleled popularity

Q. the Lotus Temple has always enjoyed

R. as shown by its pre-dominance in literature and art

S. throughout the length and breadth of India from the earliest times down to the present day,

(a) QPSR
(b) PSQR
(c) QRSP
(d) QPRS

Q85. Direction: Select the INCORRECTLY spelt word from the given sentence.

After hours of persistent pursuit and percecution, the little prince was at last deserted by the rabble and left to himself.

(a) Persistent
(b) Rabble
(c) Percecution
(d) Deserted

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

The doctors gave him more powerful drugs in the _____ hope that he might recover.

(a) when
(b) vein
(c) wane
(d) vain

Q87. Direction: Select the most appropriate synonym of the underlined word in the given sentence.

In order to protect his identity, the spy had to efface all evidence of his true name and occupation from his personal documents.

(a) reveal
(b) clarify
(c) maintain
(d) destroy

Q88. Direction: Select the most appropriate synonym of the given word.

Comprehend

(a) Distort
(b) Deter
(c) Assimilate

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(d) Complex

Q89. Direction: Parts of the following sentence have been given as options. Select the option that contains an error.
Suman has bought a black and a white shawl to wear with her new dress.

(a) to wear with
(b) her new dress.
(c) a black and a white shawl
(d) Suman has bought

Q90. Direction: Select the most appropriate meaning of the given idiom.
Like a cat on a hot tin roof

(a) Studying very hard
(b) Being lazy
(c) Being in a state of agitation
(d) Urging somebody not to worry about something

Q91. Direction: Select the most appropriate idiom for the underlined segment in the sentence given below.
Most of the people say that some people fight for the cause but most of them don't support it.

(a) Are out of frying pan onto the fire
(b) Spare the rod and spoil the child
(c) Pay only lip service
(d) Mind their P's and Q's

Q92. Direction: Select the INCORRECTLY spelt word.
The Greeks are considered to be a courageous race valuing the knowledge, beauty and wisidiom.

(a) Wisidiom
(b) Knowledge
(c) Valuing
(d) Courageous

Q93. Direction: Select the option that can be used as a one-word substitute for the given group of words.
The theory or philosophy of law

(a) Jurisprudence
(b) Pacifism
(c) Cosmology
(d) Philia

Q94. Direction: Select the option that can be used as a one-word substitute for the given group of words.
Animals especially on a farm, regarded as an asset.

(a) Livid
(b) Livery stable
(c) Livelihood
(d) Livestock

Q95. Direction: Select the option that expresses the given sentence in active voice.
Tall promises were being made by each candidate.

(a) Each candidate made tall promises.
(b) Each candidate can make tall promises.
(c) Each candidate has made tall promises.
(d) Each candidate was making tall promises.

Directions

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

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As I ____ (1) __ the stream and began climbing the hill, the grunting and chattering increased, as though the langurs were trying to warn me of some hidden danger. I looked up and saw a great orange-gold leopard, sleek and spotted, __ (2) __ on a rock about twenty feet away from me. The leopard looked at me once, briefly and with an air of disdain, and then sprang into a dense thicket, making __ (3) __ no sound as it melted into the shadows. I had __ (4) __ the leopard in his quest for food. But a little later I heard the quickening cry of a barking deer as it fled through the forest. After that __ (5) ____, I did not see the leopard again.

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

(a) crossed
(b) entered
(c) drowned
(d) passed

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

(a) swinging
(b) dancing
(c) poised
(d) playing

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

(a) hardly
(b) silently
(c) loudly
(d) absolutely

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

(a) disturbed
(b) facilitated
(c) helped
(d) prevented

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

(a) encounter
(b) quarrel
(c) meeting
(d) exchange

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) PWZ : OUW

The logic followed here is:

• • Similarly,

• Hence, 'PWZ : OUW' is the correct answer.

Q2. Answer: (d) 35

The logic followed here is:

• • • Similarly,

• Hence, '35' is the correct answer.

Q3. Answer: (d) [figure]

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

Hence, 'option 4' is the correct answer.

Q4. Answer: (c) Monday

An ordinary year has 1 odd day and a leap year has 2 odd days.

So, the day on the same date for an ordinary year will be 1 day ahead and the day on the same date for a leap year will be 2 days ahead for the next year.

If 28 May 2015 is Thursday, then the day on these dates will be:

28 May 2016 → Saturday

28 May 2017 → Sunday

28 May 2018 → Monday

28 May 2019 → Tuesday

28 May 2020 → Thursday

28 May 2021 → Friday

28 May 2022 → Saturday

28 May 2023 → Sunday

Number of days between 24 April 2023 to 28 May 2023 = (6 + 28) = 34

34 when divided by 7, leaves 6 as remainder.

Sunday - 6 = Monday

Therefore, it will be Monday on 28 May 2023.

Hence, ‘Monday’ is the correct answer.

Q5. Answer: (a) 8 - 72

The logic followed here is:

Logic: First number × (First number + 2) = Second number

1. 8 - 72 → 8 × (8 + 2) = 8 × 10 = 80 ≠ 72

2. 11 - 143 → 11 × (11 + 2) = 11 × 13 = 143

3. 7 - 63 → 7 × (7 + 2) = 7 × 9 = 63

4. 9 - 99 → 9 × (9 + 2) = 9 × 11 = 99

Hence, '8 - 72' is the correct answer.

Q6. Answer: (b) 24 -125

The logic followed here is:

Logic: (First number × 5) + 10 = Second number

1. 31 - 165 → (31 × 5) + 10 = 155 + 10 = 165

2. 24 -125 → (24 × 5) + 10 = 120 + 10 = 130 ≠ 125

3. 13 - 75 → (13 × 5) + 10 = 65 + 10 = 75

4. 19 - 105 → (19 × 5) + 10 = 95 + 10 = 105

Hence, '24 -125' is the correct answer.

Q7. Answer: (b) HJLN

The logic followed here is:

• • Similarly,

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• Hence, 'HJLN' is the correct answer.

Q8. Answer: (a) TSQ

The logic followed here is:

Logic: First letter - 2 = Second letter; Second letter - 1 = Third letter

1. TSQ → T - 2 = S; S - 2 = Q
2. JHG → J - 2 = H; H - 1 = G
3. PNM → P - 2 = N; N - 1 = M
4. XVU → X - 2 = V; V - 1 = U

Hence, 'TSQ' is the correct answer.

Q9. Answer: (a) Friday

An ordinary year has 1 odd day and a leap year has 2 odd days.

So, the day on the same date for an ordinary year will be 1 day ahead and the day on the same date for a leap year will be 2 days ahead for the next year.

If 20 March 2001 is Tuesday, then the day on these dates will be:

20 March 2002 → Wednesday
20 March 2003 → Thursday
20 March 2004 → Saturday
20 March 2005 → Sunday
20 March 2006 → Monday
20 March 2007 → Tuesday
20 March 2008 → Thursday
20 March 2009 → Friday
20 March 2010 → Saturday
20 March 2011 → Sunday
20 March 2012 → Tuesday
20 March 2013 → Wednesday
20 March 2014 → Thursday
20 March 2015 → Friday
20 March 2016 → Sunday
20 March 2017 → Monday
20 March 2018 → Tuesday
20 March 2019 → Wednesday
20 March 2020 → Friday
20 March 2021 → Saturday

Number of days between 20 March 2021 to 23 April 2021 = (11 + 23) = 34

34 when divided by 7, leaves 6 as remainder.

Saturday + 6 = Friday

Therefore, it will be Friday on 23 April 2021.

Hence, ‘Friday’ is the correct answer.

Q10. Answer: (a) 190

The logic followed here is:

Logic: (First number × 5) + 5 = Second number

• 16 : 85 → (16 × 5) + 5 = 80 + 5 = 85

• 26 : 135 → (26 × 5) + 5 = 130 + 5 = 135

Similarly,

• 37 : ? → (37 × 5) + 5 = 185 + 5 = 190

Hence, '190' is the correct answer.

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Q11. Answer: (a) SUQP

The logic followed here is:

• • Similarly,

• Hence, 'SUQP' is the correct answer.

Q12. Answer: (c) [figure]

The logic followed in the given figure series is:

From Figure (1) to (2):

The symbols are moving in a clockwise direction as shown below.

From Figure (2) to (3):

The symbols are moving in a clockwise direction as shown below.

From Figure (3) to (4):

The symbols are moving in a clockwise direction as shown below.

From Figure (4) to Answer Figure:

The symbols are moving in a clockwise direction as shown below.

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

Q13. Answer: (c) 12

The number of rectangles in the figure is shown below:

Hence, '12' is the correct answer.

Q14. Answer: (d) Son's son

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

M + U - H ÷ S × N → M is sister of U, U is mother of H, H is father of S, S is husband of N.

By using the symbols in the table given below, we can draw the following family tree:

Clearly, S is grandson of U i.e., U's son's son.

Hence, ‘Son's son’ is the correct answer.

Q15. Answer: (d) Father

P is				
Symbol	•	•	/	×
Meaning	Wife	Brother	Son	Daughter
to Q				

B - D × L + T → B is brother of D, D is daughter of L, L is wife of T.

By using the symbols in the table given below, we can draw the following family tree:

Clearly, T is father of B.

Hence, ‘Father’ is the correct answer.

Q16. Answer: (c) DJJN

The logic followed here is:

Hence, 'DJJN' is the correct answer.

Q17. Answer: (d) 82

The logic followed here is:

Hence, '82' is the correct answer.

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Q18. Answer: (a) 33

Letter	A	B	C	D
Meaning	÷	×	•	•

After replacing the letters by their meaning, we get:

118 ÷ 2 + 14 - 5 × 8 = ?

=> 59 + 14 - 5 × 8 = ?

=> 59 + 14 - 40 = ?

=> 73 - 40 = ?

=> 33 = ?

Hence, '33' is the correct answer.

Q19. Answer: (a) Only conclusion II follows.

The least possible Venn diagram is:

Conclusion (I): No crane is a van. → Does not follow (As, there is no definite relation between crane and van. Hence, false)

Conclusion (II): Some vans are mixers. → Follows (As, Some mixers are trucks and All trucks are vans → Some vans are mixers)

Hence, 'Only conclusion II follows' is the correct answer.

Q20. Answer: (d) 146

58 - 17 ÷ 6 + 322 × 23 = ?

If '+' and '-' are interchanged and '×' and '÷' are interchanged, then the equation becomes:

58 + 17 × 6 - 322 ÷ 23 = ?

=> 58 + 17 × 6 - 14 = ?

=> 58 + 102 - 14 = ?

=> 160 - 14 = ?

=> 146 = ?

Hence, '146' is the correct answer.

Q21. Answer: (c) 6

The code for each letter is shown below:

Clearly, '6' is the code for 'K' in the given code language.

Hence, '6' is the correct answer.

Q22. Answer: (a) 235

The logic followed here is:

Hence, '235' is the correct answer.

Q23. Answer: (c) 273

The logic followed here is:

Logic: (First number × First number) + (First number + 1) = Second number

• 11 : 133 → (11 × 11) + (11 + 1) = 121 + 12 = 133

• 22 : 507 → (22 × 22) + (22 + 1) = 484 + 23 = 507

Similarly,

• 16 : ? → (16 × 16) + (16 + 1) = 256 + 17 = 273

Hence, '273' is the correct answer.

Q24. Answer: (b) [figure]

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

Hence, 'option 2' is the correct answer.

Q25. Answer: (c) FGVG

The logic followed here is:

1. FGVA → DEFG / YUAG / TKVG / OAQA

2. VGFA → DEVG / YUAG / TKFG / OAQA

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3. FGVG → DEFG / YUAG / TKVG / OAQG

4. BCHL → DEBG / YUAC / TKHG / OAQL

• Option 3, when divided into four equal parts, follows the pattern shown below:

• Hence, 'FGVG' is the correct answer.

Q26. Answer: (d) Rourkela, Odisha

The correct answer is Rourkela, Odisha.

Key Points

• Birsa Munda International Hockey Stadium:-

• It is the largest hockey stadium in the country, with a seating capacity of 15,000.

• It was built in 2010 for the Men's Hockey World Cup and has since hosted several international hockey tournaments.

• The stadium has state-of-the-art facilities, including a synthetic turf and floodlights for night matches.

• The Birsa Munda International Hockey Stadium is located in Rourkela, Odisha, India.

Q27. Answer: (d) Dhansiri

The correct answer is Dhansiri.

Key Points

• Meghalaya plateau:-

• It is a geological formation located in the northeastern region of India.

• It is divided into three main subdivisions: Khasi, Jaintia, and Garo.

• These subdivisions are named after the major ethnic groups that inhabit them.

• The Dhansiri river is not a subdivision of the Meghalaya plateau. It is a river that flows through the states of Assam and Nagaland.

• The Meghalaya plateau is known for its unique landscape, which includes hills, valleys, and caves. It is also home to a rich variety of flora and fauna.

Additional Information

• Khasi Hills:-

• These are the largest subdivision of the Meghalaya plateau and are known for their scenic beauty and cultural significance.

• Jaintia Hills:-

• These are located to the east of the Khasi Hills and are known for their coal deposits and limestone caves.

• Garo Hills:-

• These are located to the west of the Khasi Hills and are known for their wildlife sanctuaries and national parks, which are home to several endangered species.

Q28. Answer: (b) 1966 to 1969

The correct answer is 1966 to 1969 which is described as Plan Holiday.

Key Points

• Plan Holiday:-

• The period from 1966 to 1969 in India is known as the Plan Holiday because during this time the government put a pause on the Five-Year Plans that had been implemented since independence.

• The Plan Holiday was a result of the economic crisis faced by India due to two consecutive years of drought and the Indo-Pak War of 1965.

• During this period, the government focused on stabilizing the economy and implementing policies to promote self-sufficiency.

• The Plan Holiday was followed by the Fourth Five-Year Plan (1969-1974) which focused on poverty alleviation and employment generation.

Additional Information

• Period of 1990 to 1993:-

• It refers to the period when India faced a balance of payment crisis and the government implemented economic reforms under the leadership of then-Finance Minister Manmohan Singh.

• Period of 1956 to 1960:-

• It was the Second Five-Year Plan period which focused on industrialization and agriculture.

• Period of 1947 to 1950:-

• It was the immediate post-independence period when the government focused on reconstruction and development.

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Q29. Answer: (a) 30%

The correct answer is 30%.

Key Points

• Horizontal reservation:-

• It refers to the reservation of seats in a particular category across all levels of employment or education.

• It is distinct from vertical reservation, which provides reservations for specific social groups, such as Scheduled Castes and Scheduled Tribes.

• The 30% horizontal reservation for women in the government jobs bill of Uttarakhand was approved by Governor Gurmit Singh on January 10, 2023.

Q30. Answer: (c) Alfiya Pathan

The correct answer is Alfiya Pathan.

Key Points

• Alfiya Pathan:-

• She won the gold medal in the 81kg category at the 1st Edition of Elorda Boxing Cup 2022 held in Kazakhstan.

Additional Information

• Mary Kom:-

• She is a six-time world champion and an Olympic bronze medalist.

• She has won several medals at the Asian Games and Commonwealth Games as well.

• Lovlina Borgohain:-

• She is a bronze medalist at the 2018 Asian Games and a silver medalist at the 2019 AIBA Women's World Boxing Championships.

• Nikhat Zareen:-

• She is a former junior world champion and a silver medalist at the 2019 Strandja Memorial Boxing Tournament.

• She has also won several medals at the national and international level.

Q31. Answer: (d) Morris Jones

The correct answer is Morris Jones.

Key Points

• Bargaining federalism:-

• It refers to a system where the central government and the state governments negotiate and bargain with each other to share power and resources.

• Morris Jones described Indian federal system as a bargaining federalism.

Additional Information

• KC Wheare:-

• He is known for his book "Federal Government" and is considered as the father of federalism.

• Ivor Jennings:-

• He was a British jurist who served as the Governor-General of India and is known for his work on the Indian Constitution.

• Granville Austin:-

• He was an American historian who wrote extensively on the Indian Constitution and is known for his book "The Indian Constitution: Cornerstone of a Nation".

Q32. Answer: (d) GNP at factor cost - NNP at factor cost- Personal income - Personal disposable income

The correct answer is GNP at factor cost - NNP at factor cost- Personal income - Personal disposable income.

Key Points

• GNP at factor cost:-

• It is the broadest concept of national income as it includes all income earned by domestic factors of production, regardless of their location.

• NNP at factor cost:-

• It is a narrower concept as it deducts depreciation from GNP at factor cost.

• Personal income:-

• It is even narrower as it only includes income received by individuals and households.

• Personal disposable income:-

• It is the narrowest concept as it deducts personal taxes and non-tax payments from personal income.

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Q33. Answer: (c) Meghalaya

The correct answer is Meghalaya.

Key Points

• Laho:-

• It is a traditional folk dance of Meghalaya, which is performed by the Khasi tribe during their festivals and ceremonies.

• The dance form is characterized by a group of dancers moving in a circular motion and performing intricate steps and gestures.

• The dancers wear colorful traditional attire, and the music is typically played using instruments such as drums and flutes.

• The dance is considered to be a form of worship and is often performed to seek blessings from the gods and ancestors.

Q34. Answer: (c) Amjad Ali Khan

The correct answer is Amjad Ali Khan.

Key Points

• Sarod:-

• It is a stringed musical instrument that originated in India.

• It is similar to the Western lute, but with a shorter neck and a wider fingerboard.

• The instrument has a resonating chamber made of wood, and its strings are plucked with a plectrum made of coconut shell.

• Amjad Ali Khan is associated with Sarod.

Additional Information

• Zakir Hussain:-

• He is a renowned tabla player from India who has collaborated with many international musicians.

• Allahrakha:-

• He was a famous tabla player and percussionist who was known for his work with Ravi Shankar and other Indian classical musicians.

• Khayyam:-

• He was a Bollywood music composer who passed away in 2019.

• He was known for his work in films like Kabhie Kabhie and Umrao Jaan.

Q35. Answer: (b) LEDP

The correct answer is LEDP.

Key Points

• Livelihood Enterprise Development Programme:-

• NABARD launched the Livelihood Enterprise Development Programme (LEDP) in 2015 to promote the livelihood of people in both farm and off-farm activities.

• LEDP provides financial assistance and capacity building to individuals and groups for setting up and running small enterprises.

• LEDP focuses on promoting entrepreneurship and income generation among rural youth, women, and marginalized communities.

• LEDP also aims to enhance the productivity and competitiveness of small and micro-enterprises in rural areas.

Additional Information

• LWE (Left Wing Extremism):-

• It is a government initiative to address the issue of Maoist insurgency in certain parts of India.

• MEDP (Micro Enterprise Development Programme):-

• It is a scheme of NABARD to provide financial assistance to micro-enterprises.

• BLP (Bank Linkage Programme);-

• It was launched in early 1990s.

• The programme was started at the initiative of NABARD in 1992 to link the unorganised sector with the formal banking sector.

Q36. Answer: (a) Services

The correct answer is Services.

Key Points

• Raja Bhalindra Singh trophy:-

• Services team won the Raja Bhalindra Singh trophy at the 36th National Games.

• The Raja Bhalindra Singh trophy is awarded to the overall champion team of the National Games, which is held once in four years and is the most prestigious multi-sport event in India.

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• Services team is known for its strong sports culture and has consistently performed well in various national and international competitions. It has won the Raja Bhalindra Singh trophy multiple times in the past as well.

• Winning the Raja Bhalindra Singh trophy is a matter of great pride for any team as it signifies their overall excellence and dominance in various sports disciplines.

Q37. Answer: (d) Bihu

The correct answer is Bihu.

Key Points

• Bihu:-

• It is a festival and dance that is celebrated in the state of Assam, India.

• It is celebrated to mark the beginning of the Assamese New Year and the onset of the agricultural season.

• The festival is characterized by traditional Bihu dances and music, which involve the use of instruments such as dhol, pepa, and taal.

• Bihu is typically celebrated in mid-April and is a time of joy and festivity for the people of Assam.

Additional Information

• Baisakhi:-

• It is a festival celebrated in North India, particularly in Punjab, to mark the harvest season and the beginning of the Sikh New Year.

• Ugadi:-

• It is a festival celebrated in South India, particularly in the states of Andhra Pradesh, Telangana, and Karnataka, to mark the New Year and the onset of spring.

• Pongal:-

• It is a festival celebrated in Tamil Nadu to mark the harvest season and the beginning of the Tamil New Year.

Q38. Answer: (c) Aniline

The correct answer is Aniline.

Key Points

• Aniline:-

• It is the organic chemical compound that is reacted with nitrous acid at 273-278K to prepare benzenediazonium chloride.

• Benzene diazonium chloride is an important intermediate in organic synthesis used for the preparation of various organic compounds.

Additional Information

• Hydrazine:-

• It is a colorless and flammable liquid used as a rocket propellant and in the production of pharmaceuticals and agricultural chemicals.

• Toluene:-

• It is a clear and colorless liquid used as a solvent, fuel, and in the production of chemicals such as benzene, trinitrotoluene, and benzoic acid.

• Pyridine:-

• It is a colorless liquid with a distinctive odor used as a solvent and in the production of various chemicals such as pesticides, drugs, and vitamins.

Q39. Answer: (c) Nasiruddin Mahmud

The correct answer is Nasiruddin Mahmud.

Key Points

• Nasiruddin Mahmud:-

• He was a sultan of Delhi who ruled from 1246 to 1266, and Balban served as his naib during his reign.

• Balban's service as naib to Nasiruddin Mahmud was a crucial step in his rise to power, as he was able to gain experience in governance and military affairs.

• During his tenure as naib, Balban was instrumental in quelling rebellions and consolidating the sultan's authority.

• After Nasiruddin Mahmud's death, Balban was able to use his position and influence to become sultan himself in 1266.

Additional Information

• Iltutmish:-

• He was the father of Razia and a prominent sultan of Delhi himself, ruling from 1211 to 1236.

• Razia:-

• She was the daughter of Iltutmish and the first and only female sultan of Delhi, ruling briefly from 1236 to 1240.

• Qutb ud-Din Aibak:-

• He was the first sultan of Delhi, ruling from 1206 to 1210. Balban did not serve under him as naib.

Q40. Answer: (d) Pteridophyta

The correct answer is Pteridophyta.

Key Points

• Cryptogam:-

• It refers to a group of plants that do not have visible reproductive structures, such as flowers or seeds.

• Pteridophyta:-

• It is a division of plants that includes ferns, horsetails, and clubmosses, which reproduce through spores and do not have flowers or seeds.

Additional Information

• Gymnosperm :-

• It refers to a group of plants that have naked seeds, such as conifers, cycads, and ginkgoes.

• Dicots and Angiosperms:-

• These belong to the division Magnoliophyta, which includes plants that have seeds enclosed in fruits or flowers, such as flowering trees, shrubs, and herbs.

Q41. Answer: (a) Phobos and Deimos

The correct answer is Phobos and Deimos.

Key Points

• The two small moons orbiting Mars discovered by American astronomer Asaph Hall in 1877 are Phobos and Deimos.

• Phobos:-

• It is the larger of the two moons, and its name means "fear" in Greek mythology.

• Deimos:-

• It is smaller than Phobos and its name means "panic" in Greek mythology.

• Both Phobos and Deimos are irregularly shaped and are thought to be captured asteroids or fragments of the Martian crust.

Additional Information

• Miranda and Triton are moons of Uranus and Neptune.

• Enceladus and Titan are moons of Saturn, and Charon and Dysnomia are moons of Pluto.

Q42. Answer: (a) Table Tennis Federation of India

The correct answer is Table Tennis Federation of India.

Key Points

• Meghana Ahlawat:-

• She was elected as the President of Table Tennis Federation of India in December 2022.

• Table Tennis Federation of India:-

• It is the governing body for table tennis in India and is responsible for organizing national and international events, selecting teams for international tournaments, and promoting the sport in the country.

Additional Information

• BCCI:-

• Board of Control for Cricket in India is the national governing body for cricket in India and is responsible for organizing domestic and international cricket tournaments, selecting teams for international tournaments, and promoting the sport in the country.

• Hockey India:-

• It is the governing body for field hockey in India and is responsible for organizing national and international events, selecting teams for international tournaments, and promoting the sport in the country.

• Wrestling Federation of India:-

• It is the governing body for wrestling in India and is responsible for organizing national and international events, selecting teams for international tournaments, and promoting the sport in the country.

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Q43. Answer: (d) Golden Quadrilateral

The correct answer is Golden Quadrilateral.

Key Points

• Golden Quadrilateral:-

• It is a highway network connecting the major cities of Delhi, Mumbai, Chennai, and Kolkata.

• It is a part of the National Highways Development Project (NHDP) and was completed in 2012.

• The Golden Quadrilateral covers a distance of 5,846 km and is one of the longest highways in the world.

• The project was initiated by the government to improve the transportation infrastructure in the country and boost economic growth.

Additional Information

• North-South Corridor of NHDP:-

• It is a different highway project that connects Srinagar in the north to Kanyakumari in the south.

• National Highway 44:-

• It connects Srinagar to Kanyakumari via Delhi.

• National Highway 47A:-

• It connects Salem to Kochi in the south.

Q44. Answer: (b) G Parthasarathi

The correct answer is G Parthasarathi.

Key Points

• G Parthasarathi:-

• He was the first Vice-Chancellor of Jawaharlal Nehru University (JNU) in 1969.

• JNU was established in 1966 and G Parthasarathi played a significant role in shaping the university.

• Prior to his appointment as Vice-Chancellor, G Parthasarathi had served as India's ambassador to the United States.

• He was also a renowned scholar and had authored several books on international relations and foreign policy.

Additional Information

• BD Nagchaudhuri:-

• He was the second Vice-Chancellor of JNU, succeeding G Parthasarathi in 1972.

• Y Nayudamma:-

• Y Nayudamma was a scientist.

• KR Narayanan:-

• KR Narayanan was the President of India from 1997-2002.

Q45. Answer: (c) Kottakkal Nandakumaran Nair

The correct answer is Kottakkal Nandakumaran Nair.

Key Points

• Kottakkal Nandakumaran Nair:-

• He received the Sangeet Natak Akademi Award of 2019 in the Kathakali classical dance category.

• He is a renowned Kathakali artist from Kerala.

• He has also won other prestigious awards like the Padma Shri and Kerala Sangeetha Nataka Akademi Award.

Additional Information

• OS Arun:-

• He is a Carnatic music vocalist who has won several awards including the Sangeet Natak Akademi Award in the Carnatic vocal music category in 2018.

• Manju Nandan Mehta:-

• He is a renowned theatre director and actor who has won several awards for his contribution to theatre.

• Vinayak Torvi:-

• He is a Hindustani classical vocalist who has won several awards for his contribution to music.

Q46. Answer: (c) Bihar

The correct answer is Bihar.

Key Points

• According to the Census of India 2011:-

• Bihar has the lowest literacy rate among all states in India.

• The literacy rate in Bihar was recorded at 63.82% in the 2011 census, which is significantly lower than the national average of 74.04%.

• This indicates that there is a significant gap in education and literacy levels between Bihar and other states in India.

• The state government has implemented several initiatives to improve the literacy rate, such as the Bihar Education Project and the Sarva Shiksha Abhiyan.

Additional Information

• Jharkhand:

• Jharkhand has a literacy rate of 66.41%, which is higher than Bihar but still lower than the national average.

• The state has made efforts to improve education through schemes like the Mukhyamantri Sukanya Yojana and the Jharkhand Education Project.

• Rajasthan:

• Rajasthan has a literacy rate of 66.11%, which is again lower than the national average.

• The state government has implemented several initiatives to improve education, such as the Bhamashah Yojana and the Rajasthan Education Initiative.

• Arunachal Pradesh:

• Arunachal Pradesh has a literacy rate of 66.95%, which is higher than both Jharkhand and Rajasthan but still lower than the national average.

• The state has made efforts to improve education through initiatives like the Arunachal Pradesh Education for All Project and the Chief Minister's Universal Health Insurance Scheme.

Q47. Answer: (a) Reserve Bank of India

The correct answer is Reserve Bank of India.

Key Points

• Reserve Bank of India:-

• RBI is responsible for issuing all currency notes in India, including undefined10 notes.

• The RBI was established in 1935 and is India's central bank, responsible for regulating the country's monetary policy and managing its currency reserves.

Additional Information

• State Bank of India:-

• It is a public sector bank that offers various financial services, including deposit accounts, loans, and credit cards.

• It has a wide network of branches and ATMs across India and also operates in other countries.

• Union Bank of India:-

• It is another public sector bank that provides banking and financial services to its customers.

• It offers services such as savings accounts, loans, and credit cards and has a presence in various parts of India.

• Central Bank of India:-

• It is a public sector bank that offers banking and financial services to its customers.

• It provides services such as savings accounts, loans, and credit cards and has a network of branches and ATMs across India.

Q48. Answer: (c) Export plus import expenditure

The correct answer is Export plus import expenditure.

Key Points

• The expenditure method of measuring national income involves adding up the final expenditures made by households, firms, governments, and foreigners.

• Final investment expenditure by firms and final government expenditure are correctly stated components of the expenditure method.

• Final consumption expenditure by households is also a correctly stated component of the expenditure method.

• Export plus import expenditure, is a component of the expenditure method, but is NOT correctly stated. This should have been export-import expenditure, which is known as net exports.

Additional Information

• Final investment expenditure by firms:-

• It refers to the amount spent by businesses on capital goods, such as machinery and equipment, that are used to produce goods and services.

• Final government expenditure:-

• It includes all spending by the government on goods and services, such as salaries of public employees and infrastructure projects.

• Final consumption expenditure by households:-

• It is the total amount spent by individuals and families on goods and services for personal use, such as food, clothing, and housing.

• Net exports:-

• These are the difference between the value of exports (goods and services sold to foreign countries) and imports (goods and services purchased from foreign countries).

Q49. Answer: (d) 2-Propen-1-amine

The correct answer is 2-Propen-1-amine.

Key Points

• Allylamine:-

• It is a primary amine with the chemical formula C3H5NH2.

• It is a colorless liquid with a pungent odor and is highly soluble in water.

• Allylamine is used in the production of a wide range of pharmaceuticals, including antihistamines, antifungal agents, and anticancer drugs.

• It is also used in the manufacture of various chemicals, including pesticides, resins, and plastics.

Additional Information

• Propan-1-amine:-

• It refers to a different compound with a different molecular structure.

• Benzenamine:-

• It refers to an entirely different compound with a benzene ring in its structure.

• N-Methylethanamine:-

• It refers to a compound with a different molecular formula and structure.

Q50. Answer: (b) Australia

The correct answer is Australia.

Key Points

• Concurrent List:-

• It is a list of subjects that are under the jurisdiction of both the central and state governments.

• This means that both levels of government can make laws on these subjects.

• Australia also has a similar system of federalism, where powers are divided between the central government and the states.

• In fact, Australia was one of the countries that served as a model for the Indian Constitution.

• The Indian Constitution was drafted by a Constituent Assembly that was heavily influenced by the British parliamentary system and the federal structure of the United States. However, it also drew inspiration from other countries, including Australia.

• The Concurrent List was added to the Indian Constitution through the Constitution (Seventh Amendment) Act, 1956. This amendment was based on the recommendation of the States Reorganisation Commission, which was set up in 1953 to examine the issues related to the reorganisation of states in India.

Q51. Answer: (a) 3.75%

Given:

Total Workforce = 7200

Total number of employees hired = 324

Percentage of hiring in IT department of of total hired = 25%

Calculation:

=> Number of IT employees before hiring = 30% of 7200 = (3/10) × 7200 = 2160

=> Increase in the number of IT employees after hiring = 25% × 324 = (1/4) × 324 = 81

Therefore Percentage increase in the number of IT employee = (81/2160) × 100 = 3.75%

Hence, the correct answer is Option 1).

Q52. Answer: (a) 33.33%

Concept used

Income = Expenditure + Savings

Calculation

Let the income be 100x.

His expenditure = 100x × 45/100 = 45x

Savings = 100x - 45x = 55x

New income = 100x × 115/100 = 115x

New saving = Old saving = 55x

New Expenditure = 115x - 55x = 60x

Expenditure increase% = (60x - 45x)/45x × 100

= 15x/45x × 100

= 100/3 = 33.33%

The answer is 33.33%

Q53. Answer: (d) 1

Formula used

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

Calculation

(0.96×0.96×0.96+0.04×0.04×0.04)/(0.96×0.96-0.96×0.04+0.04×0.04)

Let a = 0.96 and b = 004

Applying the above formula:

=> $(a^3 + b^3)/((a2 -ab + b2) = a + b$

=> (0.963 + 0.043)/((0.962 - 096 × 0.04 + 0.042) = 0.96 + 0.04

=> 1

The answer is 1.

Q54. Answer: (d) 1/2 (x + y + z)

Formula Used:

$a^3 + b^3 + c^3 - 3abc = (a + b +c)(a^2 + b^2 + c^2 - ab - bc - ca)$

Calculation:

=> $(x^3+y^3+z^3-3xyz)/((x-y)^2+(y-z)^2+(z-x)^2)$

Using the above formula we get,

=> $(x + y + z)(x^2 + y^2 + z^2 -xy - yz - xz)/(x^2 + y^2 - 2xy + y^2 + z^2 - 2yz + z^2 + x^2 - 2zx)$

=> $(x + y + z)(x^2 + y^2 + z^2 -xy - yz - xz)/(2(x^2 + y^2 + z^2- xy - yz - zx))$

=> 1/2 (x + y + z)

Hence, The correct answer is Option 4).

Q55. Answer: (d) 4444

Given:

Divisor = 11 × Quotient

Divisor = 5 × Remainder

Remainder = 44

Formula Used:

Dividend = Divisor × Quotient + Remainder

Calculation:

=> Divisor = 5 × Remainder = 5 × 44 = 220

=> Quotient = Divisor/11 = 220/11 = 20

Therefore Dividend = 220 × 20 + 44 = 4444

Hence, The correct answer is option 4)

Q56. Answer: (a) 3

Formula used:

Mean proportion = Square root of the product of the given numbers

Calculations:

Mean proportion = √(7 × 63)

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=> Mean proportion = √441 = 21

According to the question,

24 - 21 = 3

Therefore The correct answer is 3.

Q57. Answer: (a) 2

Given:

$(\sin^2 32° + \sin^2 58°)/(\cos^2 32° + \cos^2 58°) + \sin^2 53° + \cos 53° \sin 37°$

Formula used:

$\sin^2\theta + \cos^2\theta = 1$

$\sin\theta = \cos(90° - \theta)$

$\cos\theta = \sin(90° - \theta)$

Calculation:

$(\sin^2 32° + \sin^2 58°)/(\cos^2 32° + \cos^2 58°) + \sin 2\ 53° + \cos 53° \sin 37°$

$\Rightarrow (\sin^2 32° + \sin^2 (90°-32°))/(\cos^2 32° + \cos^2(90°- 32°)) + \sin^2 53° + \cos 53° \sin (90° - 53°)$

$\Rightarrow (\sin^2 32° + \cos^2 32°)/(\cos^2 32° + \sin^2 32°) + \sin 2\ 53° + \cos 53° \cos 53°$

$\Rightarrow 1 / 1 + \sin 2\ 53° + \cos^2 53°$

$\Rightarrow 1 + 1 = 2$

Therefore The correct answer is 2.

Q58. Answer: (d) 30 m

Given:

A vertical pillar 42 cm long casts a 35 cm long shadow.

Concept Used:

The ratio of the height of an object and the length of it's shadow is fixed at any fixed time of the day.

Calculation:

Let the height of the tower be h.

Ratio of height of the pillar and its shadow,

=> 42 : 35 = 6 : 5

Let the height of the tower be h,

Ratio of height of the tower and its shadow,

=> h : 25 = 6 : 5

=> h = 30

Therefore The height of the tower is 30 m.

Q59. Answer: (c) 75°

Concpet:

Tangents drawn from an external point are perpendicular to the radius at the point of contact

Calculation:

Given, TM and TN are tangents.

angle MON = 105°

Now, angle in a quadrilateral = 360°

=> angle MON + angle ONT + angle MTN + angle TMO = 360°

=> 105° + 90° + 90° + angle MTN = 360°

=> angle MTN = 75°.

Q60. Answer: (c) Gain Rs. 2,750

Given:

Cost per box of grapes: Rs. 2,000

Number of boxes: 10

Weight per box: 20 kg

Selling Price per box: Rs. 2,500

Damaged Grapes: 10 kg

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Transport charges: Rs. 1,000

Formula used:

Total Cost Price = Cost per box × Number of boxes + Transport charges

Total Selling Price = Selling Price per box × (Number of boxes - Damaged weight in terms of boxes)

Calculation:

=> Total Cost Price = Rs. 2,000 × 10 + Rs. 1,000 = Rs. 20,000 + Rs. 1,000 = Rs. 21,000

Since 10 kgs were damaged and each box contains 20 kgs, the damaged boxes in terms of boxes = 10 kg / 20 kg per box = 0.5 box

=> Actual sold boxes = 10 boxes - 0.5 boxes = 9.5 boxes

=> Total Selling Price = Rs. 2,500 × 9.5 = Rs. 23,750

Gain = Total Selling Price - Total Cost Price

=> Gain = Rs. 23,750 - Rs. 21,000 = Rs. 2,750

Hence, his gain is Rs. 2,750.

Q61. Answer: (b) 17 km/h

Given:

Downstream speed of ship = 18 km/h

Upstream speed of ship = 16 km/h

Formula used:

Upstream = (u−v) km/hr

Downstream = (u+v) Km/hr, [where “u” is the speed of the boat in still water and “v” is the speed of the stream]

Calculation:

=> u - v = 18 -----(1)

=> u + v = 16 -----(2)

The sum of equation 1 & 2

=> 2u = 34

=> u = 17 km/h.

The speed of the ship in still water = 17 km/h

Q62. Answer: (b) 34,481

Given:

Principal (P) = Rs 160000

Rate (R) = 10%

Time (T) = 2 years

Concept used:

Interest is calculated semi-annually (half-yearly) then

R = R/2 and T = 2T

Formula used:

Amount (A) = P × (1 + (R/100))^T

Compound interest (CI) = A - P

Calculation:

Here interest is calculated half-yearly then,

=> R = 10/2 = 5% and T = 2 × 2 = 4 years

Now,

=> A = 160000 × (1 + (5/100))^4

=> A = 160000 × (21/20)^4

=> A = 194481

=> CI = 194481 - 160000 = 34481

Therefore The correct answer is Rs 34,481.

Q63. Answer: (a) 42

Given:

Diameter (D) = 58 cm

Perpendicular distance from the centre of a circle to chord = 20 cm
Concept used:
Perpendicular drawn from the centre of a circle on any chord, bisect chord in two equal parts
Formula used:
D = 2R
From pythagoras theorem, $c^2 = a^2 + b^2$
Calculation:
Let AB is chord, OD is perpendicular to chord and OB is radius of circle
Now,
=> OB = D/2 = 58/2 = 29 cm
=> OD = 20 cm
In right triangle ODB
=> DB = $\sqrt{(OB^2 - OD^2)} = \sqrt{(29^2 - 20^2)}$ {29, 21 and 20 are triplet}
=> DB = $\sqrt{441}$ = 21 cm
=> Chord AB = 2 × DB = 2 × 21 = 42 cm
Therefore The correct answer is 42 cm.

Q64. Answer: (c) E

Calculation:
From above given table data
=> Students E has least weight(48 kg) and height(1.12 m) among all
Therefore The correct answer is option 3.

Q65. Answer: (a) 33 1/3 %

Given:
Sum of money becomes Rs. 6,000 in 3 years
And Rs. 10,500 in 7 years and 6 months
Formula used:
Simple Interest = (P × R × T)/100
Where, P is the principal, R is the rate and T is the time.
Calculation:
According to the question,
Simple interest for 4.5 years is = 10500 - 6000 = 4500
Simple interest for 1 years becomes, 4500/4.5 = 1000
And Simple interest for 3 years = 1000× 3 = 3000
As, we know Total Amount = Simple interest + Principal
=> 6000 = 3000 + Prinicipal
=> Prinicipal = 3000
Using the formula,
=> 3000 = (3000 × R × 3)100
=> R = 100/3 = 331/3%
Therefore The rate of interest is 331/3%.

Q66. Answer: (d) 13.33%

Given:
Marked price of toothpaste, MP = Rs. 90
Selling price of toothpaste, SP = Rs. 78
Formula used:
Discount% = [(MP - SP)/MP] × 100
Where, MP is the marked price and SP is the selling price.
Calculation:
Discount% = [(90 - 78)/90] × 100
=> (12/90) × 100 = 13.33%

Therefore The rate of discount is 13.33%

Q67. Answer: (b) 1

Concept used:

sin 45° = 1/√2, cosec 45° = √2 and cot 45° = 1

Calculation:

1/sin θ-(cot²θ)/(1+cosec θ)

Put θ = 45° we get,

=> √2 - 1/(1+√2)

=> √2 - (√2-1)/(√2+1)× (√2-1)

=> √2 - (√2 -1) = 1

Therefore The correct option is (2).

Q68. Answer: (a) 2

Given :

sin58° /cos32° + (sin55° sec35°)/(tan5° tan45° tan85°)

Formula used :

If A+B = 90° then,

sinA × cosB = 1

Calculation :

=> sin58° /cos32° + (sin55° sec35°)/(tan5° tan45° tan85°)

=> sin58° /sin58° + (sin55° sec35°)/(tan5° ° tan85°)

=> 1 + (sin55° cosec55°)/(tan5° ° tan85°)

=> 1 + 1 = 2

Hence, the correct option (1).

Q69. Answer: (c) 11.23 cm3

Given ;

Edge of cube = 31/2 cm

Formula used :

The volume of the cone (V) = 1/3 πr²h

Concept used :

Here, the height and the diameter are the same as the edge because the cone will have the same measurement all over its surface as the edge.

Calculation :

Edge of cone = 31/2 cm = 7/2

The radius of cone = 7/4

Height of cone = 31/2

=> Volume = (1/3)π(7/4)²(7/2)

=> V = (1/3)π(7/4)2(7/2)

=> V = (1/3)π(7/4)2(7/2) = (22 × 7³) / (3 × 7× 32)

=> V = 7,546 / 672 = 11.229 cm³

Hence, the correct option (3).

Q70. Answer: (a) 20

Shortcut Trick

When a diameter is perpendicular to a chord, it bisects the chord: RT = TS = 16 ÷ 2 = 8 cm.

According to the Intersecting Chords Theorem, RT × TS = PT × TQ.

=> 8 × 8 = PT × 4

=> PT = 64 ÷ 4 = 16 cm.

=> Diameter PQ = PT + TQ = 16 + 4 = 20 cm.

Therefore The correct answer is 20 cm.

Alternate Method

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Given: Chord RS = 16 cm, PQ perpendicular to RS at T, QT = 4 cm.

Formula Used: Pythagoras Theorem: Hypotenuse² = Base² + Perpendicular²

=> Let the radius of the circle be r cm.

=> In triangle OTR, OR is the radius, so OR = r.

=> Since PQ is the diameter, OQ = r. Given QT = 4 cm, OT = OQ − QT = r − 4.

=> RS is bisected by the diameter at T, so RT = 16 ÷ 2 = 8 cm.

=> By Pythagoras Theorem in triangle OTR: $OR^2 = OT^2 + RT^2$

=> $r^2 = (r - 4)^2 + 8^2$

=> $r^2 = r^2 - 8r + 16 + 64$

=> $8r = 80$

=> $r = 10$ cm

=> Diameter = 2 × r = 2 × 10 = 20 cm.

Therefore The correct answer is 20 cm.

Additional Information

Perpendicular from Center

A perpendicular drawn from the center of a circle to a chord always bisects the chord into two equal segments.

Intersecting Chords Theorem

For two chords intersecting at a point T inside a circle, the product of the segments of one chord equals the product of the segments of the other: AT × TB = CT × TD.

Radius and Diameter

The diameter is the longest chord of a circle and its length is exactly twice the length of the radius (D = 2r).

Q71. Answer: (a) 380

Calculation

The average production of wheat = (720 + 680 + 790 + 690)/4

= 2880/4

= 720

The average production of pulses = (410 + 380 + 320 + 250)/4

= 1360/4

= 340

Difference = 720 - 340 = 380

The answer is 380.

Q72. Answer: (c) 140

Shortcut Trick

Given equation: $x - 1/(x - 2) = 7$

Subtract 2 from both sides: $(x - 2) - 1/(x - 2) = 5$

Let $(x - 2) = k$. Then $k - 1/k = 5$.

The required value is $k^3 - 1/k^3 = k^3 + 3k$

Shortcut: $5^3 + 3 \times 5 = 125 + 15 = 140$

Therefore The correct answer is 140.

Alternate Method

Given: $x - 1/(x - 2) = 7$

Formula Used: $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$

=> Let $m = (x - 2)$

=> $x = m + 2$

=> $(m + 2) - 1/m = 7$

=> $m - 1/m = 7 - 2 = 5$

=> Cubing both sides: $(m - 1/m)^3 = 5^3$

=> $m^3 - 1/m^3 - 3 \times m \times (1/m) \times (m - 1/m) = 125$

=> $m^3 - 1/m^3 - 3(5) = 125$

=> $m^3 - 1/m^3 = 125 + 15$

=> $(x - 2)^3 - 1/(x - 2)^3 = 140$

Therefore The correct answer is 140.

Additional Information

Cubic Identity (Plus)

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

Square Identity

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

Power 4 Relation

If $x + 1/x = k$, then $x^4 + 1/x^4 = (k^2 - 2)^2 - 2$.

Q73. Answer: (b) 82 : 111

Concept used

Ratio

Calculation

The quantity of Aluminium in first alloy = 242 × 5/11 = 110

The quantity of Aluminium in second alloy = 144 × 3/8 = 54

Total Aluminium = 110 + 54 = 164

The quantity of Zinc in first alloy = 242 × 6/11 = 132

The quantity of Zinc in second alloy = 144 × 5/8 = 90

Total Zinc = 132 + 90 = 222

Ratio = 164:222 = 82: 111

The answer is 82: 111

Q74. Answer: (c) 12

Formula used

Time taken = (a × b)/(a - b)

Where a = time taken together to complete work and b = time taken alone

Calculation

Time taken = (6 × 4)/(6 - 4)

= 24/2 = 12 days

The answer is Gita does the job alone in 12 days.

Q75. Answer: (b) 12.8%

Given:

Cost price of air conditioner = 24000.

Selling price of air conditioner = 30000.

Profit % = 9 %

Concept Used:

SP = MP - MP× Discount %

SP = CP + CP× Profit %

Discount = MP - SP

Discount% = discount% / MP × 100

Calculation:

If profit is 9% then, we get

=> SP = 24000 + 24000 × 9%

=> SP = 24000 + 24000 × 9 / 100 = 26160.

We know discount formula then, we get

=> Discount = 30000 - 26160 = 3840

We know discount percentage formula then, we get

=> Discount% = 3840/30000 × 100 = 12.8%

Therefore The rate of discount given by the shopkeeper to the customer is 12.8%.

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Q76. Answer: (c) Two masked intruders had robbed the agency.

The correct answer is "Two masked intruders had robbed the agency."

Key Points

• The given sentence is in Past Perfect Tense and Active Voice.

• The rule for changing a Past Perfect Tense from Active voice to Passive voice:

• In the passive voice, the object of the active sentence becomes the subject of the passive sentence, and the verb is changed to its past participle form.

• Structure:

• Object + had + been + V3 + by + Subject (Passive Voice)

• Subject + had + V3 + Object (Active Voice)

• Example:

• The things had been arranged by Disha. (Passive Voice)

• Disha had arranged the things. (Active Voice)

• The sentence is in passive voice with the subject 'agency' performing the action 'robbing.'

• To convert it into active voice, we need to make the object 'two masked intruders' the subject and use the past participle form of the verb 'rob.'

• In this case, we use the past perfect tense 'had been robbed' to show that the action was completed before another past event (day breaking).

• The correct answer is Option 3.

Correct sentence: Two masked intruders had robbed the agency.

Q77. Answer: (d) Superficial

The solution is in Hindi. Read it online.

Q78. Answer: (d) to an range of health problems

Here, the correct part is "to an range of health problems."

Key Points

• The error lies in the part "to an range of health problems."

• The incorrect use of the article "an" before the word "range" is incorrect.

• The word "range" starts with a consonant sound, so we must use "a" before "range."

• The correct answer is Option 4.

Correct sentence: A lot of adulterants are chemicals that can lead to a range of health problems in both children and adults.

Q79. Answer: (d) in front of him

The correct answer is "in front of him."

Key Points

• The error lies in the part "at the front of him."

• "In front of" is the correct preposition to use when describing the location of someone or something that is directly ahead.

• The other options do not make grammatical sense in this context.

• The correct answer is Option 4.

Correct sentence: The invigilator did not know that the four friends were exchanging notes right in front of him.

Q80. Answer: (c) Chaotically

The solution is in Hindi. Read it online.

Q81. Answer: (d) Stricken

The solution is in Hindi. Read it online.

Q82. Answer: (b) Alluring

The solution is in Hindi. Read it online.

Q83. Answer: (b) No correction required

The correct answer is "No correction required."

Key Points

• The original sentence is grammatically correct and does not require any substitution.

• The verb "had" is in the past perfect tense, which is appropriate for the context of the sentence.
• The sentence effectively communicates the mermaid's sentiment about living far from human civilization.
• The correct answer is Option 2.

Q84. Answer: (a) QPSR

The correct answer is "QPSR."

Key Points

• The sentence talks about the Lotus Temple and its popularity in India.
• The sentence starts with Q, which talks about the popularity of the Lotus Temple.
• The next part is P, which talks about the unparalleled popularity of the Lotus Temple.
• Then comes S, which talks about the longevity of its popularity throughout India.
• The sentence ends with R, which talks about the dominance of the Lotus Temple in literature and art.
• The correct answer is Option 1.

Correct sentence: The lotus Temple has always enjoyed an unparalleled popularity throughout the length and breadth of India from the earliest times down to the present day, as shown by its pre-dominance in literature and art.

Q85. Answer: (c) Percecution

The solution is in Hindi. Read it online.

Q86. Answer: (d) vain

The solution is in Hindi. Read it online.

Q87. Answer: (d) destroy

The solution is in Hindi. Read it online.

Q88. Answer: (c) Assimilate

The solution is in Hindi. Read it online.

Q89. Answer: (c) a black and a white shawl

Here, the erroneous part is "a black and a white shawl."

Key Points

• The error lies in the part "a black and a white shawl."
• The use of "a" before both "black" and "white" is incorrect as they are both singular and countable nouns.
• The phrase "black and white" is considered a single entity in this case.
• So, we must remove "a" which is used before "white."
• The correct sentence should be "Suman has bought a black shawl and white shawl to wear with her new dress."
• The correct answer is Option 3.

Q90. Answer: (c) Being in a state of agitation

The solution is in Hindi. Read it online.

Q91. Answer: (c) Pay only lip service

The solution is in Hindi. Read it online.

Q92. Answer: (a) Wisidiom

The solution is in Hindi. Read it online.

Q93. Answer: (a) Jurisprudence

The solution is in Hindi. Read it online.

Q94. Answer: (d) Livestock

The solution is in Hindi. Read it online.

Q95. Answer: (d) Each candidate was making tall promises.

The correct answer is "Each candidate was making tall promises."

Key Points

• The given sentence is in Past Continuous Tense and in Passive Voice.
• The rule for changing a Past Continuous Tense from Active voice to Passive voice or Passive to Active Voice:

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• Interchange the object and subject with each other, i.e. object of the active sentence become the subject of the passive sentence.
• Structure:
• Object + was/were + being + V3 + by Subject (Passive Voice)
• Subject + was/were + v1 + ing + object (Active Voice)
• Example:
• A song was being sung by Esha. (Passive Voice)
• Esha was singing a song. (Active Voice)
• The subject of the given sentence is 'Tall promises.'
• The object of the given sentence is 'each candidate.'
• The subject will be put in place of the object and the object will be put in place of the subject.
• 'Were being made' will be changed into 'was making'.
• "Each candidate" is a singular subject so we must "was" with it.
• The correct option 4 follows all the above rules and correctly expresses the given sentence in active voice.

Q96. Answer: (a) crossed

The solution is in Hindi. Read it online.

Q97. Answer: (c) poised

The solution is in Hindi. Read it online.

Q98. Answer: (d) absolutely

The solution is in Hindi. Read it online.

Q99. Answer: (a) disturbed

The solution is in Hindi. Read it online.

Q100. Answer: (a) encounter

The solution is in Hindi. Read it online.

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