SSC CHSL Tier-1 2024: Official Paper (Held On: 04 Jul, 2024 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2024 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

This artwork / are a wonderful example / of the period's vogue / for realistic style.

(a) of the period's vogue
(b) for realistic style
(c) are a wonderful example
(d) This artwork

Q2. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The companies were / giving in the prizes / to attract customers / during the festive season.

(a) to attract customers
(b) during the festive season
(c) The companies were
(d) giving in the prizes

Q3. The following sentence has been divided into four parts. Identify the part that contains an error.

Pratigya arrived / to the / railway station / five hours early.

(a) to the
(b) Pratigya arrived
(c) five hours early.
(d) railway station

Q4. Identify the error in the following sentence and select the option with the correct use of the phrasal verb.

Prateek was planning to ask Shreya for a favour. But he could not muster up the courage. So, he blacked out.

(a) Prateek was planning to ask Shreya for a favour. But he could not muster up the courage. So, he turned down.
(b) Prateek was planning to ask Shreya for a favour. But he could not muster up the courage. So, he checked out.
(c) Prateek was planning to ask Shreya for a favour. But he could not muster up the courage. So, he chickened out.
(d) Prateek was planning to ask Shreya for a favour. But he could not muster up the courage. So, he broke in.

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.

Famines were (1) _____ during the period of British rule due to many reasons (2) ____ unemployment following import of machine-made goods from Britain, overexploitation of farmers and (3) ____ access to food. India suffered two very severe droughts in 1965 and 1966. India achieved (4) ____ in food grains by the year 1976 through the implementation of the seed-water-fertiliser-led (5) _____. The country is no longer exposed to real famines. However, lack of purchasing power continues to haunt people in some parts of the country.

Q5. Select the most appropriate option to fill in blank number 1.

(a) paused
(b) excruciated
(c) discouraged
(d) caused

Q6. Select the most appropriate option to fill in blank number 2.

(a) including small-scale
(b) excluding small-scale
(c) including large-scale
(d) excluding large-scale

Q7. Select the most appropriate option to fill in blank number 3.

(a) inflated
(b) restricted
(c) unlimited
(d) basic

Q8. Select the most appropriate option to fill in blank number 4.

(a) goal
(b) self-sufficiency
(c) incompetency
(d) success

Q9. Select the most appropriate option to fill in blank number 5.

(a) Green Revolution
(b) White Revolution
(c) Blue Revolution
(d) Pink Revolution

Q10. The balloon started to deflate after being pricked with a needle. What is the ANTONYM of ‘deflate’?

(a) Inflate
(b) Compress
(c) Shrink
(d) Flatten

Q11. Select the most appropriate meaning of the underlined idiom in the following sentence.

I can’t begin to talk on this situation right now; I am still wrapping my head around it.

(a) Understanding something complicated
(b) Comparing two things that can’t be compared
(c) Ignoring something completely
(d) Revealing a secret nobody knows

Q12. Select the most appropriate homophone to fill in the blank.

The mechanics tried a lot to get that car _____ from the accident spot.

(a) towed
(b) toad
(c) toed
(d) told

Q13. There is a spelling error in the given sentence. Select the option that contains the INCORRECTLY spelt word.

The mighty gaint brought a marigold for the princess.

(a) princess
(b) marigold
(c) mighty

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(d) gaint

Q14. Read the given sentence carefully. Change the meaning of the sentence by replacing the underlined word with its ANTONYM from the following options.

I have keen interest in reading the mind of those students who are boisterous at home but on their best behaviour at school.

(a) clamorous
(b) raucous
(c) placid
(d) frothing

Q15. Select the most appropriate option that can substitute the underlined word segment in the following sentence.

It is a high-pay job.

(a) low-paid
(b) low-pay
(c) high-paying
(d) high-paid

Q16. Select the most appropriate option to correct the sentence by using meaning of the underlined word.

In the winter season, the poor woman needed a refuge where she could live freely and independently.

(a) School
(b) Shelter
(c) Inn
(d) Tent

Q17. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Many a women work for the betterment of their family.

(a) Many a woman works for
(b) Many a women works for
(c) Many a women working for
(d) Many a woman worked for

Q18. Select the most appropriate option that can substitute the underlined segment in the given sentence.

He is almost quiet well.

(a) almost quietly
(b) very quite
(c) quite
(d) quiet

Q19. Choose the option that best describes the meaning of the idioms and phrases underlined in the given sentence.

You can best identify the fair weather friends at the time of adversity.

(a) Friends who bring good rain
(b) Friends who come in good weather conditions
(c) Friend only at the time of prosperity
(d) Best friends

Q20. Select the most appropriate synonym of the given word.

Affirm

(a) Convey
(b) Correlate
(c) Confirm
(d) Deliver

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Q21. Identify the incorrectly spelt word and select its correct spelling.

The calandar was reformed during the time of Julius Caesar.

(a) reeformed
(b) celender
(c) riformed
(d) calendar

Q22. Select the most appropriate ANTONYM of the underlined word in the sentence.

He purchased very cheap dresses.

(a) Doltish
(b) Expensive
(c) Paltry
(d) Lively

Q23. Select the most appropriate synonym of the given word.

Fertile

(a) Amusing
(b) Destructive
(c) Hectic
(d) Productive

Q24. Read the sentence carefully and select the most appropriate option to substitute the underlined part.

The revolt of the labourers will be considered as an epoch in the world history.

(a) unpopular measure
(b) hostile event
(c) commendable act
(d) important period

Q25. Complete the given sentence with an appropriate homophone from the given options.

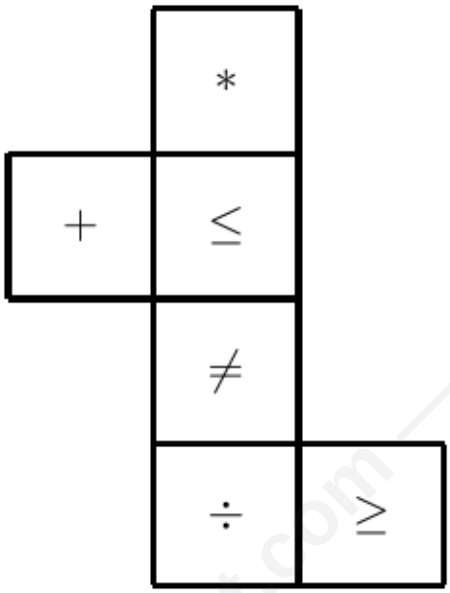
It is better to focus on your _____ than to wander aimlessly.

(a) carrier
(b) career
(c) courier
(d) carreer

GENERAL INTELLIGENCE

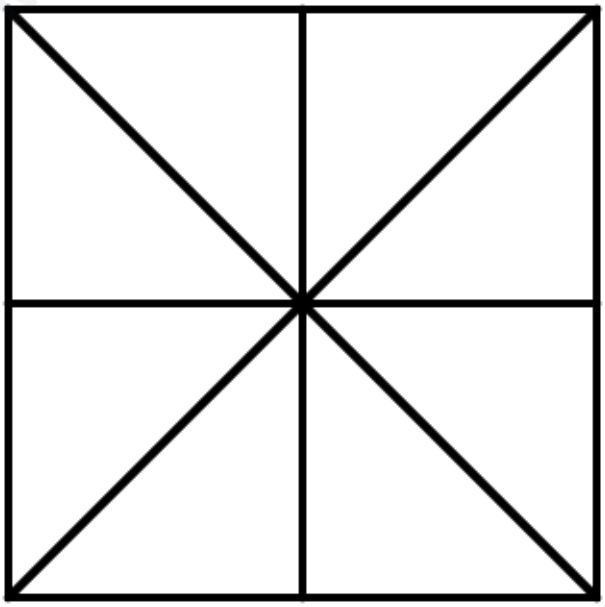
Q26. What would be the symbol on the opposite side of '≤' if the given sheet is folded to form a cube?

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(a) +
(b) ÷
(c) ≥
(d) *

Q27. How many triangles are there in the following figure?



(a) 16
(b) 14
(c) 15
(d) 17

Q28. If ‘A’ stands for ‘÷’, ‘B’ stands for ‘×’, ‘C’ stands for ‘+’ and ‘D’ stands for ‘-’, then the resultant of which of the following will be 59?

(a) 22 B 6 C 190 A 2 D 22
(b) 22 A 6 D 190 B 2 C 22
(c) 22 B 6 D 190 A 2 C 22
(d) 22 B 6 D 190 C 2 A 22

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Q29. If 'W' stands for '÷', 'Y' stands for '×', 'Z' stands for '+' and 'A' stands for '-', what will come in place of the question mark (?) in the following equation?

11 W 11 Y 11 Z 11 A 11 = ?

(a) 42
(b) 11
(c) 22
(d) 21

Q30. Which of the following numbers will replace the question mark (?) in the given series?

291 256 310 275 329 294 ?

(a) 348
(b) 331
(c) 356
(d) 375

Q31. In a certain code language

A + B means ‘A is the son of B’

A – B means ‘A is the brother of B’

A × B means ‘A is the wife of B’

A ÷ B means ‘A is the father of B’

Based on the above, how is P related to T if ‘P × Q − R ÷ S + T’?

(a) Husband’s brother’s wife
(b) Husband’s sister
(c) Husband’s brother’s daughter
(d) Husband’s mother

Q32. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(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 1and 3 is not allowed.)

(3, 34, 5)

(10, 136, 6)

(a) (5, 60, 6)
(b) (11, 125, 4)
(c) (7, 113, 8)
(d) (9, 115, 6)

Q33. 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:

No pillow is a cushion.

All cushions are sheets.

No sheet is a blanket.

Conclusions:

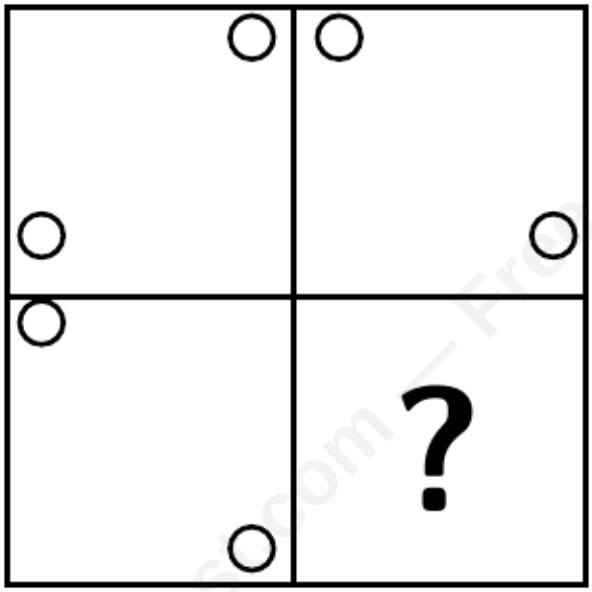
(I) No cushion is a blanket.

(II) Some pillows are sheets.

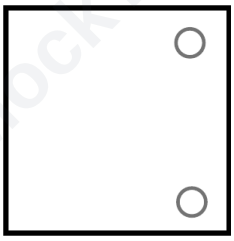
(a) None of the conclusions follow
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Only conclusion I follows

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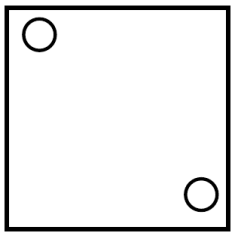
Q34. Identify the figure given in the options which when put in place of? will logically complete the pattern.



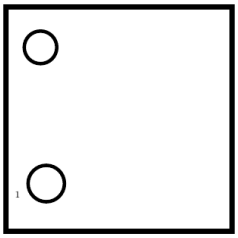
(a)



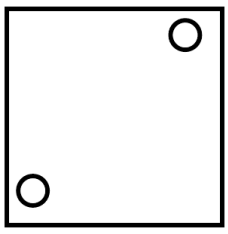
(b)



(c)



(d)



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Q35. Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that does NOTbelong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

1) ADBC

2) JMKL

3) FJHI

4) VYWX

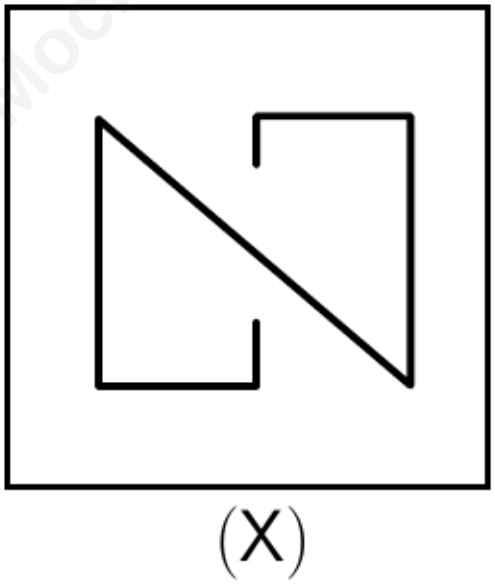
(a) ADBC
(b) VYWX
(c) JMKL
(d) FJHI

Q36. What should come in place of the question mark (?) in the given series?

15, 30, 90, 360, 1800, ?

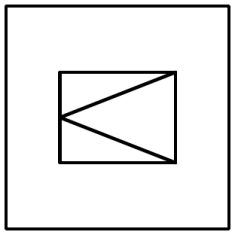
(a) 14000
(b) 10800
(c) 12000
(d) 11000

Q37. Select the option in which the given figure X is embedded (i.e. contains figure X in the same form).

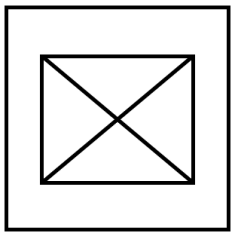


(X)

(a)

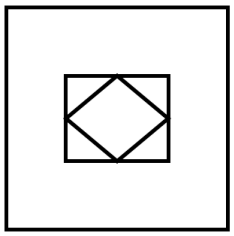


(b)

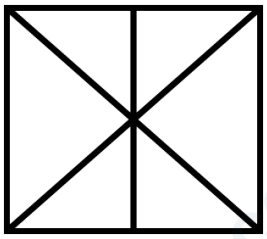


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(c)



(d)



Q38. What should come in place of ? in the given series based on the English alphabetical order?

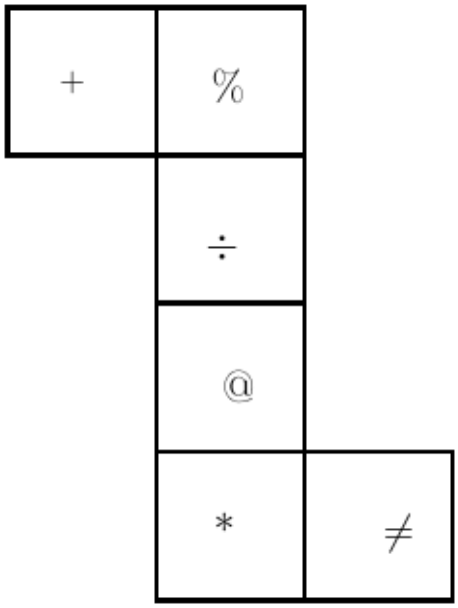
GOW NIB UCG BWL ?

(a) XOF
(b) VLB
(c) ZQH
(d) IQQ

Q39. In a certain code language, ‘cold summers day’ is written as ‘kl bn ix’ and ‘day and night’ is written as ‘kj ed bn’. How is ‘day’ written in the given language?

(a) bn
(b) kj
(c) kl
(d) ix

Q40. What would be the symbol on the opposite side of '÷' if the given sheet is folded to form a cube?



(a) %
(b) ≠
(c) *
(d) +

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Q41. 30 is related to 216 by certain logic. Following the same logic, 40 is related to 226. To which of the following is 50 related, following the same logic?

(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) 236
(b) 250
(c) 238
(d) 248

Q42. In a certain code language, 'bottle is blue' is coded as 'see mo tu' and 'sky is blue' is coded as 'mo tu lo'. What is the code for 'bottle' in that language?

(a) tu
(b) mo
(c) see
(d) lo

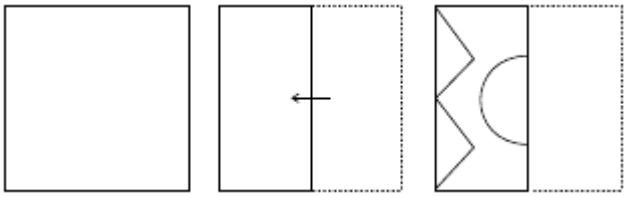
Q43. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

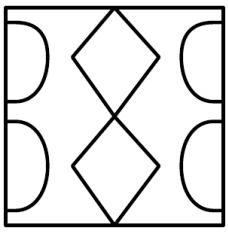
Carpenter : Furniture

(a) Dam : Engineer
(b) Book : Author
(c) Cook : Soup
(d) Magazine : Editor

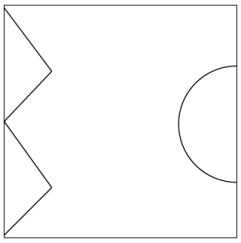
Q44. A paper is folded and cut as shown below. How will it appear when unfolded?



(a)

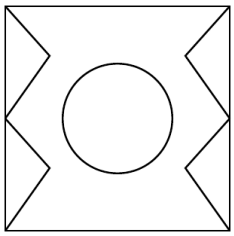


(b)

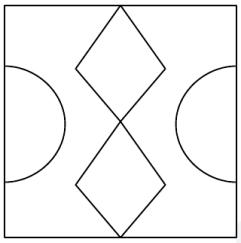


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(c)



(d)



Q45. The position of how many letters will remain unchanged if each of the letters in the word FLAMINGOES is arranged from left to right in alphabetical order?

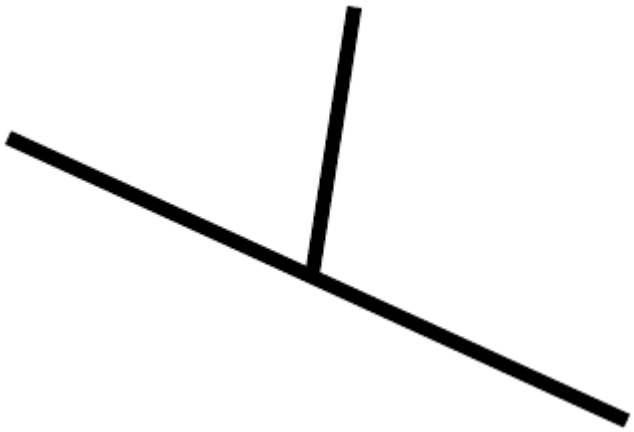
(a) One
(b) None
(c) Three
(d) Two

Q46. Select the correct combination of letters that when sequentially placed in the blanks of the given series will make the series logically complete.

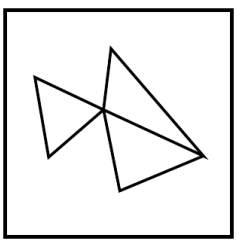
_WSVR_QTPS_RNQM_ LOK_

(a) TVOLN
(b) XUQPM
(c) TUOPN
(d) XVQLM

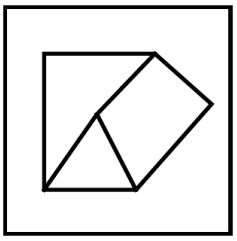
Q47. Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).



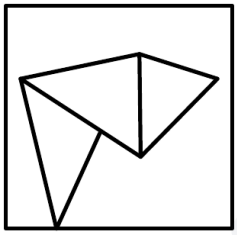
(a)



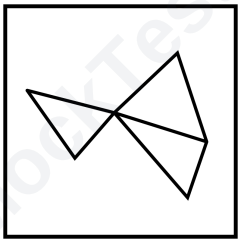
(b)



(c)



(d)



Q48. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Antibiotic : Infection

(a) Purgative : Eating
(b) Antidote : Poisoning
(c) Anticlimax : Episode
(d) Antibody : Braise

Q49. If 16 September 2010 is Thursday, then what will be the day of the week on 17 August 2017?

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

Q50. 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?

96 B 3 D 285 A 5 C 11 = ?

(a) 242
(b) 252
(c) 272
(d) 262

QUANTITATIVE APTITUDE

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Q51. Read the given information and answer the question that follows.

The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The number in the brackets gives the maximum marks in each subject.

Student	**Subject (Max. Marks)**					
Maths	Chemistry	Physics	Geography	History	Computer science	
(150)	(130)	(120)	(100)	(60)	(40)	
Ayush	90	50	90	60	70	80
Aman	100	80	80	40	80	70
Sajal	90	60	70	70	90	70
Rohit	80	65	80	80	60	60
Muskan	80	65	85	95	50	90
Tanvi	70	75	65	85	40	60
Tarun	65	35	50	77	80	80

How many students secured a raw score of at least 30 in Computer Science?

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

Q52. The perimeter of a semi-circle is 56.54 cm. What is its diameter (in cm)? (Use $\pi = 3.14$)

(a) 11
(b) 20
(c) 22
(d) 10

Q53. A retailer purchased a batch of goods for Rs. 5,000. Due to a manufacturing defect, 5% of the goods were damaged. If the retailer wants to make a profit of 20% on the remaining goods, at what price should the undamaged goods be sold?

(a) Rs. 5,800
(b) Rs. 5,700
(c) Rs. 6,000
(d) Rs. 5,900

Q54. If the average of a number and its reciprocal is 2, then the average of its cube and its reciprocal is equal to:

(a) 48
(b) 26
(c) 36
(d) 28

Q55. To finish a work in 12 days, 8 workers are engaged. After 2 days, due to some urgency, the work is to be finished in next 2 days. How many more workers are to be engaged now to finish it on time?

(a) 36
(b) 32
(c) 40
(d) 30

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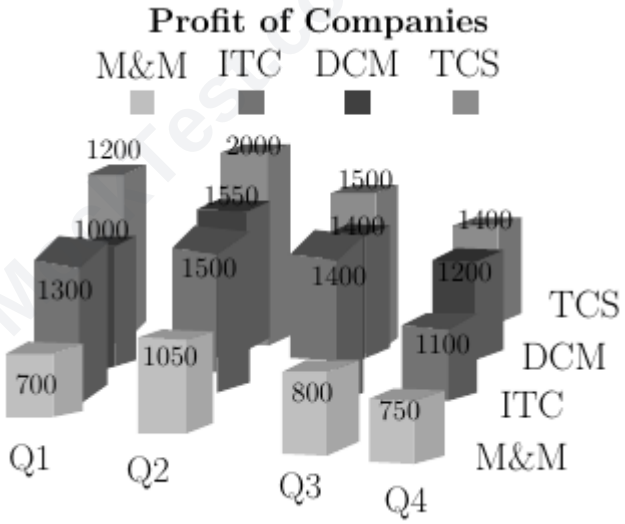
Q56. A car covers a certain distance in 85 minutes, if it runs at a speed of 36 km/hr. The speed at which the car must run to reduce the time of journey to 51 minutes will be:

(a) 70 km/hr
(b) 50 km/hr
(c) 60 km/hr
(d) 80 km/hr

Q57. Find the remainder, when we divide $2x^3 - 3x^2 + 6x - 4$ by $2x - 3$.

(a) 6
(b) -6
(c) 5
(d) -5

Q58. The profit (in Rupees) earned by four companies in the different quarters of the year 2020 are shown in the chart. The data shown is in crores.



How much is the average profit earned by ITC in the year 2020?

(a) Rs. 1350 crore
(b) Rs. 1400 crore
(c) Rs. 1325 crore
(d) Rs. 1225 crore

Q59. Rahna decided to buy a scooty that costs Rs. 40,000. The shopkeeper agreed to sell the scooty under the condition of Rs. 25,000 cash down payment of Rs. 4,000 each month for four months. Find the rate of interest at which the shopkeeper sold the scooty under the instalment scheme.

(a) 181/2 %
(b) 33%
(c) 161/2 %
(d) 101/3 %

Q60. If θ is an acute angle and cot θ + tan θ = 2, then find the value of $\tan^{12}\theta + \cot^{12}\theta + 2 \tan^{5}\theta \cot^{7}\theta$.

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

Q61. ΔDEF and ΔGHI are two similar triangles. If DE = 64 cm, GH = 24 cm and the perimeter of ΔGHI is 72 cm, then what is the sum of the lengths (in cm) of the sides EF and FD of the ΔDEF?

(a) 82
(b) 128

(c) 192
(d) 96

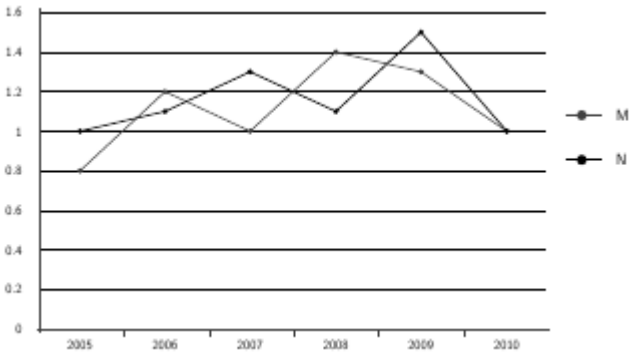
Q62. A circle of diameter 26 cm has two equal chords of length 10 cm each, separated by a distance h cm. What is the value of h?
(a) 18
(b) 16
(c) 12
(d) 24

Q63. The marked price of an article is 25% more than its cost price. If a scheme discount of 40% is given, then the loss percentage is:
(a) 30%
(b) 20%
(c) 15%
(d) 25%

Q64. The price of pulses has increased by 45%. By what percentage (rounded off to the nearest integer) the increased price of the pulses should be reduced so that the price of the pulses remains unaltered?
(a) 41
(b) 45
(c) 35
(d) 31

Q65. Study the given graph and answer the question that follows.

Ratio of imports to exports from two companies over the years.



In how many of the given years were the imports more than the exports of Company N ?
(a) 4
(b) 2
(c) 3
(d) 1

Q66. Express the following as decimals, respectively.

20%, 0.5%, 0.03%
(a) 0.2, 0.005, 0.0003
(b) 0.2, 0.0005, 0.0003
(c) 0.02, 0.005, 0.0003
(d) 0.02, 0.005, 0.003

Q67. Last year, Geeta's monthly salary was Rs. 12,000 and Seeta's monthly salary was Rs. 10,000. This year, Geeta's monthly salary is Rs. 14,400, while Seeta's monthly salary is Rs. 12,500. If the percentage increase in Seeta's monthly salary this year over her monthly salary last year is denoted by x%, and the percentage increase in Geeta's monthly salary this year over her monthly salary last year is denoted by y%, then what is the value of ((x-y)/y×100) %?
(a) 20

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

Q68. Simplify :

$34/7 - [161/2 \div \{6^2 - (7 - 21/2)\}]$

(a) 64/21
(b) 64/11
(c) 25/11
(d) 25/21

Q69. Find the third proportion to 36 and 48.

(a) 64
(b) 54
(c) 36
(d) 48

Q70. Find the capacity of an overhead cylindrical water tank, in litres, whose radius is 2.1 m and height is 6.3 m.

(a) 87318
(b) 611726
(c) 65622
(d) 61802

Q71. The diameter of a cylinder is 14 cm and its height is 9 cm. Find the total surface area of the cylinder

(a) 714 cm^2
(b) 700 cm2
(c) 708 cm2
(d) 704 cm2

Q72. The age of a father will be double the age of his son ten years later. 10 years ago, the father's age was six times the age of the son. How many years from now, the ratio of their ages will be 3 : 2?

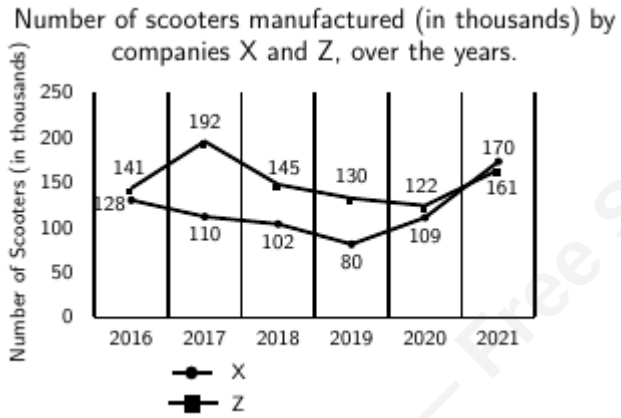
(a) 20
(b) 35
(c) 30
(d) 25

Q73. The total surface area of a solid hemisphere of diameter 28 cm is:

(a) 1648 cm^2
(b) 1488 cm^2
(c) 1848 cm^2
(d) 1784 cm^2

Q74. The given line graph shows the number of scooters manufactured (in thousands) by companies X and Z, over the years.

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In which of the following years was the difference between the production by companies X and Z the maximum among the given years?

(a) 2020
(b) 2018
(c) 2017
(d) 2019

Q75. Two circles with centres M and N have radii 5 cm and 8 cm, respectively. The circles touch each other externally at point T. A line PR is drawn such that the points M, T and N lie on PR, P being closer to M. From P, a tangent PQ = 12 cm is drawn to the circle with centre M touching at Q, and from R, another tangent RS = 15 cm is drawn to the circle with centre N touching at S. What is the length (in cm) of PR?

(a) 53
(b) 43
(c) 37
(d) 26

GENERAL AWARENESS

Q76. The institute established by Kaka Hathrasi in 1932 is:

(a) Music Art Kendra
(b) Swar Sangam Kendra
(c) Sangeet Karyalaya
(d) Music Art Centre

Q77. In which of the following cities was the Asian Wrestling Championship 2023 held?

(a) Karachi
(b) Tokyo
(c) Mumbai
(d) Astana

Q78. The Prarthana Samaj was established in _____ by Dr. Atma Ram Pandurang.

(a) Delhi
(b) Adyar
(c) Calcutta
(d) Bombay

Q79. Which is the first state to receive rain from the Monsoon in India?

(a) Karnataka
(b) Andhra Pradesh
(c) Goa
(d) Kerala

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Q80. In a spread sheet, page orientation is changed through _____.

(a) paper dialog box
(b) print dialog box
(c) page setup dialog box
(d) format dialogue box

Q81. Which of the following is a part of apical meristem found in roots.

(a) Protoderm
(b) Axillary bud
(c) Differentiating vascular tissue
(d) Leaf primordium

Q82. Who defeated Mohammad Ghori in the First Battle of Tarain fought in the year 1191?

(a) Vidyadhar
(b) Prithviraj Chauhan
(c) Vasudev
(d) Yashovarman

Q83. Which of the following years were considered plan holidays in Independent India?

(a) 1964 - 1967
(b) 1985 - 1987
(c) 1969 - 1972
(d) 1966 - 1969

Q84. Jagoi and Cholom are two divisions in the Indian classical dance form of _____.

(a) Kathak
(b) Kathakali
(c) Manipuri
(d) Bharatanatyam

Q85. In an electrical circuit, the ammeter reading decreases to _____ when the length of the wire is doubled.

(a) one-third
(b) one-fourth
(c) one-sixth
(d) one-half

Q86. Which of the following statements most accurately describes the planet Saturn?

(a) Its cloud-like outer regions consist of methane in the gaseous form and ammonia in crystalline form.
(b) Its surface is reddish in colour.
(c) It is a gas giant made up mostly of hydrogen and helium and the density is less than that of water.
(d) It was the seventh planet discovered in the Solar System.

Q87. Which of the following is NOT any position in the Basketball sport?

(a) Point guard
(b) Shooting guard
(c) All rounder
(d) Small forward

Q88. The Chau dancers of _____ organise a festival named Chau-Jhumur Utsav, where an open stage is designed for the performance by Chau groups.

(a) Jharkhand
(b) Chhattisgarh
(c) Madhya Pradesh
(d) West Bengal

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Q89. In which year was the 'Aatmanirbhar Bharat Rojgar Yojana' launched by the Government of India?

(a) 2010
(b) 2015
(c) 2020
(d) 2022

Q90. Which of the following schemes is related to minimising the use of chemical fertilisers, given in the Union Budget 2023-24?

(a) PM DevINE
(b) PM Shri
(c) PM Pranam
(d) SEEDScheme

Q91. The President of India appointed _____ as the Governor of Karnataka in July 2021.

(a) Mangubhai Chhaganbhai Patel
(b) Rajendra Vishwanath Arlekar
(c) Thaawar Chand Gehlot
(d) Hari Babu Kambhampati

Q92. The 5^(th) edition of the Khelo India Youth Games 2023 was hosted in January-February, 2023 by _____.

(a) Uttar Pradesh
(b) Madhya Pradesh
(c) Delhi
(d) Rajasthan

Q93. Federalism in the Indian constitutional context means:

(a) the existence of more than one level of government in the country
(b) the existence only one level of government in the country
(c) the existence of states in the country
(d) the existence of one nation one government in the country

Q94. As of August, 2023, which of the following states has India’s first fully functionally literate district?

(a) Maharashtra
(b) Madhya Pradesh
(c) Kerala
(d) Goa

Q95. _____ is defined as excess of total expenditure over total receipts excluding borrowings during a fiscal year.

(a) Income deficit
(b) Fiscal deficit
(c) Structural deficit
(d) Gross Primary deficit

Q96. Match the following ports with their related states correctly.

	Ports		**States**
1.	Mormugao port	a.	West Bengal
2.	Paradip Port	b.	Odisha
3.	Haldia Port	c.	Tamil Nadu
4.	Tuticorin port	d.	Goa

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

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

Q97. In Hindustani classical music, according to Vishnu Narayana Bhatkhande, how many thaats are the origins of ragas?

(a) 20
(b) 10
(c) 72
(d) 52

Q98. Part IV A of the Indian Constitution is related to _____.

(a) Citizenship
(b) Fundamental Duties
(c) Fundamental Rights
(d) Directive Principles of State Policy

Q99. Which of the following steps is used to format a cell in an MS Excel Spreadsheet?

(a) View → Select cell → Format
(b) Select cell → Right click → Format cell
(c) Menu → Select cell → Format
(d) Select cell → View → Format cell

Q100. Where is the oldest centre of lace work located in Gujarat?

(a) Rajkot
(b) Kutch
(c) Ahmedabad
(d) Jamnagar

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) are a wonderful example

The correct answer is Option 3.

Key Points

• The primary issue in the sentence is the incorrect use of the verb "are" which should be "is" to agree with the singular subject "artwork."

• Singular subjects require singular verbs, while plural subjects require plural verbs.

• The correct phrase should be "is a wonderful example," ensuring grammatical correctness and clarity.

• Thus, the error is located in Option 3 of the sentence.

• Therefore, the correct answer is Option 3.

Correct Sentence: "This artwork is a wonderful example of the period's vogue for realistic style."

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Additional Information

• Option 1: "of the period's vogue," – This part of the sentence is grammatically correct and does not require any changes.

• Option 2: "for realistic style," – This part of the sentence is grammatically correct and does not require any changes.

• Option 4: "This artwork," – This part of the sentence is grammatically correct and does not require any changes.

Q2. Answer: (d) giving in the prizes

The correct answer is Option 4.

Key Points

• The primary issue in the sentence is the incorrect use of the preposition "in" in the phrase "giving in the prizes."

• The correct preposition to use with the verb "give" in this context is "away."

• The correct phrase should be "giving away the prizes," ensuring grammatical correctness and clarity.

• Thus, the error is located in Option 4 of the sentence.

• Therefore, the correct answer is Option 4.

Correct Sentence: "The companies were giving away the prizes to attract customers during the festive season."

Additional Information

• Option 1: "to attract customers," – This part of the sentence is grammatically correct and does not require any changes.

• Option 2: "during the festive season," – This part of the sentence is grammatically correct and does not require any changes.

• Option 3: "The companies were," – This part of the sentence is grammatically correct and does not require any changes.

Q3. Answer: (a) to the

The correct answer is Option 1.

Key Points

• The primary issue in the sentence is the use of the preposition "to" instead of "at" before the term "the railway station."

• The correct preposition for indicating arrival at a specific location is "at."

• The correct phrase should be "arrived at the railway station," ensuring grammatical correctness and clarity.

• Thus, the error is located in part 1 of the sentence.

• Therefore, the correct answer is Option 1.

Correct Sentence: "Pratigya arrived at the railway station five hours early."

Additional Information

• Pratigya arrived – This part of the sentence is grammatically correct and does not require any changes.

• five hours early. – This part of the sentence is grammatically correct and does not require any changes.

• railway station – This part of the sentence is grammatically correct and does not require any changes.

Q4. Answer: (c) Prateek was planning to ask Shreya for a favour. But he could not muster up the courage. So, he chickened out.

The correct answer is Option 3.

Key Points

• The primary issue in the sentence is the incorrect use of the phrasal verb "blacked out."

• "Blacked out" means to lose consciousness, which does not fit the context of the sentence.

• The correct phrasal verb should be "chickened out," which means to lose courage or decide not to do something out of fear.

• Thus, the error is located in the last part of the sentence.

• Therefore, the correct answer is Option 3.

Correct Sentence: "Prateek was planning to ask Shreya for a favour. But he could not muster up the courage. So, he chickened out."

Additional Information

• Option 1: "turned down" – This means to reject something, which does not fit the context.

• Option 2: "checked out" – This means to leave or depart, which does not fit the context.

• Option 4: "broke in" – This means to enter by force, which does not fit the context.

Q5. Answer: (d) caused

The solution is in Hindi. Read it online.

Q6. Answer: (c) including large-scale

The solution is in Hindi. Read it online.

Q7. Answer: (b) restricted

The solution is in Hindi. Read it online.

Q8. Answer: (b) self-sufficiency

The solution is in Hindi. Read it online.

Q9. Answer: (a) Green Revolution

The solution is in Hindi. Read it online.

Q10. Answer: (a) Inflate

The solution is in Hindi. Read it online.

Q11. Answer: (a) Understanding something complicated

The solution is in Hindi. Read it online.

Q12. Answer: (a) towed

The solution is in Hindi. Read it online.

Q13. Answer: (d) gaint

The solution is in Hindi. Read it online.

Q14. Answer: (c) placid

The solution is in Hindi. Read it online.

Q15. Answer: (c) high-paying

The solution is in Hindi. Read it online.

Q16. Answer: (b) Shelter

The solution is in Hindi. Read it online.

Q17. Answer: (a) Many a woman works for

The solution is in Hindi. Read it online.

Q18. Answer: (c) quite

The solution is in Hindi. Read it online.

Q19. Answer: (c) Friend only at the time of prosperity

The solution is in Hindi. Read it online.

Q20. Answer: (c) Confirm

The solution is in Hindi. Read it online.

Q21. Answer: (d) calendar

The solution is in Hindi. Read it online.

Q22. Answer: (b) Expensive

The solution is in Hindi. Read it online.

Q23. Answer: (d) Productive

The solution is in Hindi. Read it online.

Q24. Answer: (d) important period

The solution is in Hindi. Read it online.

Q25. Answer: (b) career

The solution is in Hindi. Read it online.

Q26. Answer: (b) ÷

The faces opposite to each other are shown below:

=> As the alternate positions become opposite to each other, the remaining two faces become opposite to each other.

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So, opposite pairs are:

• → ≠

≤ → ÷

• → ≥

Therefore, '÷' is the opposite of '≤'.

Hence, "Option 2" is the correct answer.

Q27. Answer: (a) 16

The triangles are:

Number of triangle = 16

Hence, the correct answer is "Option 1".

Q28. Answer: (c) 22 B 6 D 190 A 2 C 22

Decoding the information:

Symbol	A	B	C	D
Meaning	÷	×	•	•

Required resultant: 421

So, checking options one by one

Option 1) 22 B 6 C 190 A 2 D 22

=>22 × 6 + 190 ÷ 2 - 22

=>22 × 6 + 95 - 22

=>132 + 95 - 22

=>227 - 22 = 205

Option 2) 22 A 6 D 190 B 2 C 22

=>22 ÷ 6 - 190 × 2 + 22

=>3.67 - 190 × 2 + 22

=>3.67 + 22 - 380

=>25.67 - 380 = -354.33

Option 3) 22 B 6 D 190 A 2 C 22

=>22 × 6 - 190 ÷ 2 + 22

=>22 × 6 - 95 + 22

=>132 + 22 - 95

=>154 - 95 = 59

Option 4) 22 B 6 D 190 C 2 A 22

=>22 × 6 - 190 + 2 ÷ 22

=>22 × 6 - 190 + 0.09

=>132 + 0.09 - 190

=>132.09 - 190 = -55.91

Thus, out of all options, only option - 3 has a resultant of '59'.

Hence, "Option 3" is the correct answer.

Q29. Answer: (b) 11

Given Equation: 11 W 11 Y 11 Z 11 A 11 = ?

BODMAS Rule:

Decoding the given information:

Alphabet	W	Y	Z	A
Meaning	÷	×	•	•

Now replacing the sign from left to right using BODMAS Rule, we get:

=> 11 ÷ 11 × 11 + 11 - 11 = ?

=> 1 × 11 + 11 - 11 = ?

=> 11 + 11 - 11 = ?

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=> 22 - 11 = 11.

Hence, the correct option is "Option 2".

Q30. Answer: (a) 348

The logic followed here is:

Hence, "Option 1" is the correct answer.

Q31. Answer: (a) Husband's brother's wife

Decoding symbols:

A is				
Symbol	•	–	×	÷
Meaning	Son	Brother	Wife	Father
to B				

Given: P × Q − R ÷ S + T

P × Q → P is the wife of Q.

Q − R → Q is the brother of R.

R ÷ S → R is the father of S.

S + T → S is the son of T.

Thus, P is the sister-in-law or husband's brother's wife of T.

Hence, the correct answer is "Option 1".

Q32. Answer: (c) (7, 113, 8)

The logic followed here is:

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

Now,

For, (3, 34, 5)

=> $(3)^2 + (5)^2 = 9 + 25 = 34$.

For, (10, 136, 6)

=> (10)2 + (6)2 = 100 + 36 = 136.

Similarly, for (7, 113, 8)

=> (7)2 + (8)2 = 49 + 64 = 113.

Hence, the correct answer is "Option 1".

Q33. Answer: (d) Only conclusion I follows

The least possible Venn diagram for the given statements is as shown below :

Conclusions:

I. No cushion is a blanket → Follow (As all cushions are sheets and no sheet is a blanket. As whole cushions comes in sheets which can not be blanket, therefore no cushion is blanket is true.)

II. Some pillows are sheets → Does not follow (As all cushions are sheets and no pillow is a cushion. It is possible but not definite.)

Therefore Here, Only conclusion I follows.

Hence, "Option 4" is the correct answer.

Q34. Answer: (d) [figure]

The figure which when put in place of '?' will logically complete the pattern is shown below:

Thus, option Figure 4 will logically complete the pattern given.

Hence, "Option 4" is the correct answer.

Q35. Answer: (d) FJHI

The logic followed here is:

Option 1) ADBC

Option 2) VYWX

Option 3) JMKL

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Option 4) FJHI
Thus, out of all the options 'FJHI' is the odd one out.
Hence, "Option 4" is the correct answer.

Q36. Answer: (b) 10800

The logic followed here is:
Hence, "Option 1" is the correct answer.

Q37. Answer: (d) [figure]

The image embedded in the given figure is as shown below :
Therefore Here, the given figure is embedded in option Figure 4.
Hence, the correct answer is "Option 4".

Q38. Answer: (d) IQQ

The logic followed here is:
Hence, "Option 4" is the correct answer.

Q39. Answer: (a) bn

According to the given information,
Thus, according to the given codes the code 'bn' is for the word 'day'.
Hence, the correct answer is "Option 1".

Q40. Answer: (c) *

The faces opposite to each other are shown below:
=> As the alternate positions become opposite to each other, the remaining two faces become opposite to each other.
So, opposite pairs are:
• → ÷
• → ≠
% → @
Therefore, '*' is the opposite of '÷'.
Hence, "Option 3" is the correct answer.

Q41. Answer: (a) 236

The logic followed here is:
Logic: 1st number + 186 = 2nd number.
Now,
For, 30 : 216
=> 30 + 186 = 216.
For, 40 : 226
=> 40 + 186 = 226.
Similarly, for 50 : ?
=> 50 + 186 = 236.
Hence, the correct answer is "Option 1".

Q42. Answer: (c) see

According to the given information,
Thus, according to the given codes the code 'see' is for the word 'bottle'.
Hence, the correct answer is "Option 3".

Q43. Answer: (c) Cook : Soup

The logic followed here is:
Logic: Professions and their creations.
Here,
Carpenter : Furniture → Carpenter is a profession that creates Furniture.
Similarly,

Cook : Soup → Cook is a profession that creates Soup.

Hence, the correct answer is "Option 3".

Q44. Answer: (c) [figure]

According to the given figure:

The figure will appear when it is opened as follows:

Hence, "Option 3" is the correct answer.

Q45. Answer: (d) Two

Given word: 'FLAMINGOES'

After arranged in alphabetical order:

Alphabets	F	L	A	M	I	N	G	O	E	S
Alphabetical order	A	E	F	G	I	L	M	N	O	S

Now,

there are two alphabets "I" and "S" that will remain unchanged if each of the letters in the word 'FLAMINGOES' is arranged in English alphabetical order.

Hence, the correct answer is "Option 4".

Q46. Answer: (c) TUOPN

The logic followed here is:

Hence, "Option 3" is the correct answer.

Q47. Answer: (a) [figure]

The image embedded in the given figure is as shown below :

Therefore Here, the given figure is embedded in option Figure 1.

Hence, the correct answer is "Option 1".

Q48. Answer: (b) Antidote : Poisoning

The logic followed here is:

Logic: Treatment and Condition.

Here,

Antibiotic : Infection → Antibiotic is a treatment for Infection.

Similarly,

Antidote : Poisoning → Antidote is a treatment for Poisoning.

Hence, the correct answer is "Option 2".

Q49. Answer: (b) Thursday

Given: 16 September 2010 was Thursday.

Now,

2010 to 2017 = 7 Years (5 Ordinary Years and 2 Leap Years).

So, 2 Leap Years have 4 odd days,

And, 5 Ordinary Years have 5 odd days.

Total odd days = 4 + 5 = 9.

9 odd days → 9/7 = 1 week and 2 odd days.

then, 16 September 2017 will be Thursday + 2 = Saturday.

Now, the number of days between 17 August 2017 to 16 September 2017

= 14 (August) + 16 (September) = 30 days.

= 30 days → 30/7 = 4 weeks and 2 odd days.

So, 17 August 2017 will be Saturday - 2 = Thursday.

Hence, the correct answer is "Option 2".

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Q50. Answer: (a) 242

Given Equation: 96 B 3 D 285 A 5 C 11 = ?

BODMAS Rule:

Decoding the given information:

Alphabet	A	B	C	D
Meaning	÷	×	•	•

Now replacing the sign from left to right using BODMAS Rule, we get:

=> 96 × 3 - 285 ÷ 5 + 11 = ?

=> 96 × 3 - 57 + 11 = ?

=> 288 - 57 + 11 = ?

=> 299 - 57 = 242.

Hence, the correct option is "Option 1".

Q51. Answer: (d) 3

Given:

A table gives the percentage of marks obtained by seven students in six different subjects in an examination.

Formula used:

Raw score = percentage × max. marks

Calculation:

For computer science,

Raw score of Ayush = 80 / 100 × 40 = 32

Raw score of Aman = 70 / 100 × 40 = 28

Raw score of Sajal = 70 / 100 × 40 = 28

Raw score of Rohit = 60 / 100 × 40 = 24

Raw score of Muskan = 90 / 100 × 40 = 36

Raw score of Tanvi = 60 / 100 × 40 = 24

Raw score of Tarun = 80 / 100 × 40 = 32

Therefore The students who secured atleast 30 in computer science are 3.

Q52. Answer: (c) 22

Given:

The perimeter of a semi-circle is 56.54 cm.

Formula used:

Perimeter of semi-circle = πr + 2r

Where, r = radius

Calculations:

56.54 = 3.14r + 2r

=> 56.54 = 5.14r

=> r = 56.54 / 5.14

=> r = 11 cm

=> Diameter = 2r = 2 × 11

=> Diameter = 22 cm

Therefore The correct answer is option (3).

Q53. Answer: (b) Rs. 5,700

Given:

Cost Price (CP) = Rs. 5,000

Damaged Goods = 5%

Profit = 20%

Formula used:

Selling Price (SP) = Purchase Price of Goods without Loss + Desired Profit

Calculations:

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Damaged Goods = 5% of 5,000

=> Damaged Goods = 0.05 × 5,000 = Rs. 250

Cost of Goods without Loss = 5,000 - 250

=> Cost of Goods without Loss = Rs. 4750

Desired Profit = 20% of Cost of Goods without Loss

=> Desired Profit = 0.20 × 4750 = Rs. 950

Selling Price (SP) = Purchase Price of Goods without Loss + Desired Profit

=> SP = 4750 + 950 = Rs. 5700

Therefore The correct answer is option (2).

Q54. Answer: (b) 26

Given:

If the average of a number and its reciprocal is 2

Formula us:

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

Calculation:

(x + 1/x) /2 = 2

(x + 1/x) = 4

x3 + 1/x3

=> $4^3 - 3 \times 4$

=> 64 - 12

=> 52

Average of x^3 and $1 / x^3$ = 52 / 2 = 26.

Therefore The correct answer is 26.

Q55. Answer: (b) 32

Shortcut Trick

Work remaining for 8 workers after 2 days = 8 × (12 − 2) = 80 units.

This 80 units of work must be finished in the next 2 days.

Total workers required = 80 ÷ 2 = 40 workers.

Additional workers to be engaged = 40 − 8 = 32.

Therefore The correct answer is 32.

Alternate Method

Given: Total planned time = 12 days, Initial workers = 8, Time elapsed = 2 days, Target time for remaining work = 2 days.

Formula Used: Total Work = Number of Workers × Efficiency per Worker × Days.

Phase	Days	Total Work Units	Efficiency (Workers)
Initial Plan	12	96	8
Urgent Task	2	40	

=> Total work to be completed = 8 × 12 = 96 units.

=> Work completed in the first 2 days = 8 × 2 = 16 units.

=> Remaining work = 96 − 16 = 80 units.

=> New time available to finish the remaining work = 2 days.

=> Total workers required for remaining work = 80 ÷ 2 = 40 workers.

=> More workers to be engaged = 40 − 8 = 32.

Therefore The correct answer is 32.

Additional Information

Work-Man-Days Formula

The amount of work done is directly proportional to the number of workers and the time spent: W = M × D × H. For constant work, M1D1 = M2D2.

Inverse Proportion Rule

For a fixed amount of work, the number of workers required is inversely proportional to the time taken to complete it.

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Efficiency and Wages

Wages are typically distributed in the ratio of the work done by each individual, which is the product of their efficiency and the time they worked.

Q56. Answer: (c) 60 km/hr

Given:

Initial time (t1) = 85 minutes

Initial speed (s1) = 36 km/hr

Reduced time (t2) = 51 minutes

Formula used:

Distance (d) = Speed × Time

Calculation:

Convert time from minutes to hours:

t1 = 85 minutes = 85/60 hours

t2 = 51 minutes = 51/60 hours

Calculate distance:

d = s1 × t1

=> d = 36 × 85/60

=> d = 36 × 1.4167

=> d = 51 km

Calculate new speed (s2):

s2 = d/t2

=> s2 = 51/(51/60)

=> s2 = 60 km/hr

Therefore The correct answer is option (3).

Q57. Answer: (c) 5

Given:

$2x^3 - 3x^2 + 6x - 4$

Divisor: 2x - 3

Formula used:

Remainder Theorem: If a polynomial f(x) is divided by (ax - b), the remainder is f(b/a)

Calculation:

Let $f(x) = 2x^3 - 3x^2 + 6x - 4$

Divisor: 2x - 3

According to the Remainder Theorem, f(3/2) will give the remainder.

=> $f(3/2) = 2(3/2)^3 - 3(3/2)^2 + 6(3/2) - 4$

=> f(3/2) = 2(27/8) - 3(9/4) + 9 - 4

=> f(3/2) = 27/4 - 27/4 + 9 - 4

=> f(3/2) = 0 + 5

=> f(3/2) = 5

Therefore The correct answer is option (3).

Q58. Answer: (c) Rs. 1325 crore

Given:

The profit (in Rupees) earned by four companies in the different quarters of the year 2020 are shown in the chart.

Formula used:

Average = total profit / number of years

Calculation:

For ITC,

Average = 1300 + 1500 +1400 +1100 / 4

=> 5300 / 4

=> 1325 crore

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Therefore The correct answer is 1325.

Q59. Answer: (b) 33%

Given:

Cash price = 40000

Cash down payment = 25000

Amount paid in monthly installment = 4000 × 4 = 16000

Calculations:

Interest charged = (25000 + 16000) – 40000 = 1000 rupees

Now, principal for first month = 40000 – 25000 = 15000

Principal for second month = 15000 – 4000 = 11000

Principal for third month = 11000 – 4000 = 7000

Principal for fourth month = 7000 – 4000 = 3000

Total principal = 15000 + 11000 + 7000 + 3000 = 36000 rupees

Therefore Rate of interest on 36000 rupees = 1000 × 12 × (100 / 36000) = 100/3 = 33.33%

Therefore The correct answer is option (2).

Q60. Answer: (b) 4

Given:

If θ is an acute angle and cot θ + tan θ = 2, then find the value of $\tan^{12}\theta + \cot^{12}\theta + 2 \tan^5\theta \cot^7\theta$.

Formula used:

cot θ = 1/tan θ

Let tan θ = x, then cot θ = 1/x

Given equation: x + 1/x = 2

Calculations:

Let tan θ = x

Given: x + 1/x = 2

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

=> $x^2 - 2x + 1 = 0$

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

=> x = 1

=> tan θ = 1 and cot θ = 1/tan θ = 1

Now, find $\tan^{12}\theta + \cot^{12}\theta + 2 \tan^5\theta \cot^7\theta$:

=> $1^{12} + 1^{12} + 2 \times 1^5 \times 1^7$

=> 1 + 1 + 2 × 1 × 1

=> 1 + 1 + 2

=> 4

Therefore The correct answer is option (2).

Q61. Answer: (b) 128

Given:

ΔDEF and ΔGHI are two similar triangles

DE = 64 cm

GH = 24 cm

Perimeter of ΔGHI = 72 cm

Formula used:

In similar triangles, the ratio of corresponding sides is equal

If DE/GH = EF/HI = FD/GI, then the ratio of perimeters is also equal to the ratio of corresponding sides

Calculation:

Ratio of corresponding sides = DE/GH = 64/24 = 8/3

=> Ratio of perimeters = 8/3

Let the perimeter of ΔDEF be P_(DEF)

=> (P_(DEF))/72 = 8/3

=> P_(DEF) = 72 × 8/3

=> P_(DEF) = 192 cm

Sum of the lengths of EF and FD = P_(DEF) - DE

=> 192 - 64 = 128 cm

Therefore The correct answer is option (2).

Q62. Answer: (d) 24

Shortcut Trick

Radius of the circle r = 26 ÷ 2 = 13 cm.

Half of the chord length = 10 ÷ 2 = 5 cm.

Distance of each chord from the center d = $\sqrt{(13^2 - 5^2)} = \sqrt{(169 - 25)} = 12$ cm.

Since the chords are separated by distance h and are equal, they must be on opposite sides of the center for h to be 24 cm.

Total distance h = 12 + 12 = 24 cm.

Therefore The correct answer is 24 cm.

Alternate Method

Given:

Diameter of the circle = 26 cm

Length of two equal chords = 10 cm each

Distance between chords = h cm

Formula Used:

In a circle, the perpendicular from the center to a chord bisects the chord. By Pythagoras Theorem: $r^2 = d^2 + (L/2)^2$, where r is the radius, L is the chord length, and d is the perpendicular distance from the center.

Calculations:

=> Radius (r) = Diameter ÷ 2 = 26 ÷ 2 = 13 cm.

=> Let M1 be the midpoint of chord AB. Then AM1 = 10 ÷ 2 = 5 cm.

=> In right-angled triangle OM1A:

=> $OM1^2 + AM1^2 = OA^2$

=> $OM1^2 + 5^2 = 13^2$

=> $OM1^2 + 25 = 169$

=> $OM1^2 = 169 - 25 = 144$

=> OM1 = $\sqrt{144}$ = 12 cm.

=> Since both chords are equal, they are at the same distance from the center.

=> OM2 = 12 cm.

=> The distance h between chords on opposite sides = OM1 + OM2 = 12 + 12 = 24 cm.

Therefore The correct answer is 24 cm.

Additional Information

Equal Chords Property

Equal chords of a circle are equidistant from the center of the circle.

Perpendicular Bisector

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

Distance Between Parallel Chords

For two parallel chords of distance d1 and d2 from the center, the total distance h = |d1 ± d2| (+ if on opposite sides, − if on the same side).

Q63. Answer: (d) 25%

Given:

The marked price of an article is 25% more than its cost price.

A scheme discount of 40% is given.

Formula used:

Loss Percentage = (Cost Price - Selling Price)/(Cost Price) × 100

Calculations:

Let the cost price (CP) be Rs. 100.

Marked Price (MP) = CP + 25% of CP

=> MP = 100 + 25% of 100
=> MP = 100 + 25
=> MP = Rs. 125
Discount = 40% of MP
=> Discount = 40% of 125
=> Discount = 0.40 × 125
=> Discount = Rs. 50
Selling Price (SP) = MP - Discount
=> SP = 125 - 50
=> SP = Rs. 75
Loss = CP - SP
=> Loss = 100 - 75
=> Loss = Rs. 25
Loss Percentage = 25/100 × 100
=> Loss Percentage = 25%
Therefore The correct answer is option (4).

Q64. Answer: (d) 31

Given:
The price of pulses increased by 45%.
Formula used:
To find the required percentage decrease to return to the original price:
Let the original price be 100 units.
New price after 45% increase = 100 + 45 = 145 units.
Required percentage decrease = (New Price - Original Price)/(New Price) × 100
Calculation:
Required percentage decrease = (145 - 100)/145 × 100
=> 45/145 × 100
=> (45 × 100)/145
=> 31.0345%
=> Rounded off to the nearest integer: 31%
Therefore The correct answer is option (4).

Q65. Answer: (a) 4

Given:
Ratio of imports to exports from two companies over the years.
Concept used:
If ratio of imports to exports is more than 1 that means the imports are more than exports for that particular year.
Calculation:
For company N,
Year 2005, imports / exports = 1
Year 2006, imports / exports = 1.1
Year 2007, imports / exports = 1.3
Year 2008, imports / exports = 1.1
Year 2009, imports / exports = 1.5
Year 2010, imports / exports = 1
Therefore The imports are more than exports for 4 years.

Q66. Answer: (a) 0.2, 0.005, 0.0003

Given:
20%, 0.5%, 0.03%
Formula used:
To convert percentage to decimal, divide the percentage by 100.

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Calculation:
20% = 20 ÷ 100 = 0.20
0.5% = 0.5 ÷ 100 = 0.005
0.03% = 0.03 ÷ 100 = 0.0003
Therefore The decimals are 0.20, 0.005, 0.0003 respectively.

Q67. Answer: (d) 25

Given:
Geeta's last year monthly salary = Rs. 12,000
Seeta's last year monthly salary = Rs. 10,000
Geeta's this year monthly salary = Rs. 14,400
Seeta's this year monthly salary = Rs. 12,500
Formula used:
Percentage increase = ((New Salary - Old Salary)/(Old Salary)) × 100
Required value = ((x-y)/y×100) %
Calculations:
Seeta's percentage increase (x%):
=> x = ((12500 - 10000)/10000) × 100
=> x = (2500/10000) × 100
=> x = 25%
Geeta's percentage increase (y%):
=> y = ((14400 - 12000)/12000) × 100
=> y = (2400/12000) × 100
=> y = 20%
Required value:
=> ((25 - 20)/20 × 100)
=> (5/20 × 100)
=> 25%
Therefore The correct answer is option (4).

Q68. Answer: (a) 64/21

Given:
34/7 - [161/2 ÷ {6^2 - (7 - 21/2)}]
Formula used:
Apply order of operations (BODMAS): Brackets, Orders (powers), Division, Multiplication, Addition, and Subtraction.
Calculation:
Step 1: Simplify inside the brackets:
6^2 = 36
7 - 21/2 =9/2
=> 36 - 9/2
=> 63/2
Step 2: Divide 161/2 by 63/2:
161/2 = 33/2
=> 33/2 ÷ 63/2 = 33/2 × 2/63 = 33/63 = 11/21
Step 3: Subtract from 34/7:
34/7 = 25/7
=> 25/7 - 11/21
Take the LCM of 7 and 21:
=> (25 × 3)/21 - 11/21 = 75/21 - 11/21 = 64/21
Therefore The simplified value is 64/21.

Q69. Answer: (a) 64

Given:

First number (a) = 36

Second number (b) = 48

Formula used:

Third Proportion (c) is calculated as:

$(b^2)/a$

Calculation:

$(48^2)/36$

=> 2304/36

=> 64

Therefore The correct answer is option (1).

Q70. Answer: (a) 87318

Shortcut Trick

The capacity of a cylindrical tank is calculated using the formula $\pi r^2 h$.

Since the formula contains π (22/7), the result must be a multiple of 11.

Checking the sum of digits at odd and even positions for 87318: (8+3+8) − (7+1) = 19 − 8 = 11.

This matches the divisibility rule for 11, identifying the result immediately.

Therefore The correct answer is 87318 litres.

Alternate Method

Given:

Radius (r) = 2.1 m

Height (h) = 6.3 m

Formula Used:

Volume of Cylinder = $\pi r^2 h$

Capacity in litres = Volume in $m^3 \times 1000$

Calculations:

=> Volume = $(22/7) \times (2.1)^2 \times 6.3$

=> Volume = $(22/7) \times 4.41 \times 6.3$

=> Volume = $22 \times 0.63 \times 6.3$

=> Volume = $13.86 \times 6.3 = 87.318\ m^3$

=> Capacity = 87.318×1000 litres

=> Capacity = 87318 litres

Therefore The correct answer is 87318 litres.

Additional Information

Volume of a Cylinder

The space occupied by a cylinder is given by the product of the area of the base and its height: $V = \pi r^2 h$.

Conversion Units

To convert volume from cubic meters to litres, use: $1\ m^3 = 1000$ litres.

Curved Surface Area (CSA)

The lateral surface area of a cylinder (excluding top and bottom) is calculated as: $CSA = 2\pi rh$.

Total Surface Area (TSA)

The total area of the cylinder including the top and bottom circles is: $TSA = 2\pi r(h + r)$.

Q71. Answer: (d) 704 cm2

Given:

Diameter of the cylinder (d) = 14 cm

Height of the cylinder (h) = 9 cm

Radius of the cylinder (r) = d/2 = 7 cm

Formula used:

Total Surface Area of Cylinder = $2\pi r(h + r)$

Calculations:
Total Surface Area = 2π × 7 × (9 + 7)
=> Total Surface Area = 2π × 7 × 16
=> Total Surface Area = 2 × 22/7 × 7 × 16
=> Total Surface Area = 2 × 22 × 16
=> Total Surface Area = 704 cm²
Therefore The correct answer is option (4).

Q72. Answer: (b) 35

Given:
10 years later, father's age = 2 × son's age
10 years ago, father's age = 6 × son's age
Formula used:
Let father's current age be F and son's current age be S.
F + 10 = 2(S + 10) ...(i)
F - 10 = 6(S - 10) ...(ii)
Calculations:
From equation (i):
=> F + 10 = 2S + 20
=> F = 2S + 10 ...(iii)
From equation (ii):
=> F - 10 = 6S - 60
=> F = 6S - 50 ...(iv)
Equating (iii) and (iv):
=> 2S + 10 = 6S - 50
=> 60 = 4S
=> S = 15
Substituting S in (iii):
=> F = 2(15) + 10
=> F = 40
Let the number of years from now be x:
(F + x) / (S + x) = 3/2
=> (40 + x) / (15 + x) = 3/2
=> 2(40 + x) = 3(15 + x)
=> 80 + 2x = 45 + 3x
=> 80 - 45 = 3x - 2x
=> 35 = x
Therefore The correct answer is option (2).

Q73. Answer: (c) 1848 cm²

Given:
The diameter of the solid hemisphere (d) = 28 cm
Formula used:
The total surface area of a solid hemisphere = 3πr²
Where, r = radius
Calculation:
Radius (r) = d/2 = 28/2 = 14 cm
Total surface area = 3πr²
=> Total surface area = 3 × π × 14²
=> Total surface area = 3 × 22/7 × 14 × 14
=> Total surface area = 3 × 22 × 2 × 14
=> Total surface area = 3 × 22 × 28

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=> Total surface area = 1848 cm²

Therefore The correct answer is option (3).

Q74. Answer: (c) 2017

Given:

The given line graph shows the number of scooters manufactured (in thousands) by companies X and Z, over the years.

Formula used:

Difference = production of X - production of Z (ignore negative symbol)

Calculation:

Difference in 2016 = 128 - 141 = 13

Difference in 2017 = 192 - 110 = 82

Difference in 2018 = 145 - 102 = 43

Difference in 2019 = 130 - 80 = 50

Difference in 2020 = 122 - 109 = 13

Difference in 2021 = 170 - 161 = 9

Therefore The difference is maximum in 2017.

Q75. Answer: (b) 43

Given:

Radius of the circle with center M = 5 cm

Radius of the circle with center N = 8 cm

Tangent PQ = 12 cm

Tangent RS = 15 cm

The circles touch externally at point T.

Formula used:

Use the Pythagorean theorem to find PM and NR:

$PM^2 = PQ^2 + MQ^2$

$NR^2 = RS^2 + NS^2$

Total length of PR = PM + MN + NR

Calculations:

For PM:

$PM^2 = 12^2 + 5^2$

=> $PM^2 = 144 + 25$

=> $PM^2 = 169$

=> $PM = \sqrt{169} = 13$ cm

For NR:

$NR^2 = 15^2 + 8^2$

=> $NR^2 = 225 + 64$

=> $NR^2 = 289$

=> $NR = \sqrt{289} = 17$ cm

Now, distance between M and N:

MN = 5 cm + 8 cm = 13 cm

Total length of PR:

PR = PM + MN + NR

=> PR = 13 cm + 13 cm + 17 cm = 43 cm

Therefore The length of PR is 43 cm.

Q76. Answer: (c) Sangeet Karyalaya

The correct answer is Sangeet Karyalaya.

Key Points

• Sangeet Karyalaya was established by Kaka Hathrasi in 1932.

• Kaka Hathrasi was a renowned Hindi satirist and humorist, known for his contributions to literature and the arts.

• The institute focuses on promoting Indian classical music and arts.

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• Sangeet Karyalaya has played a significant role in nurturing and developing talent in the field of Indian classical music.

Additional Information

• Kaka Hathrasi, born Prabhu Lal Garg, was a poet, writer, and musician from Hathras, Uttar Pradesh.

• He used humor and satire to address social and political issues in his works.

• Sangeet Karyalaya has published numerous books and recordings on Indian classical music.

• The institute also organizes events and workshops to promote cultural heritage and musical education.

Q77. Answer: (d) Astana

The correct answer is Astana.

Key Points

• The Asian Wrestling Championship is a significant annual wrestling event organized by the Asian Wrestling Federation (AWF).

• The 2023 Asian Wrestling Championships took place from April 9 to 14 in Astana, Kazakhstan.

• The event was originally scheduled to be held in New Delhi, India.

• 22 nations participated in the 2023 Asian Wrestling Championships with 331 competitors.

Additional Information

• India secured a total of 21 medals, including 7 gold, 7 silver, and 7 bronze.

• India's Gold Medals:

• Vinesh Phogat (Women's Freestyle) - Gold

• Bajrang Punia (Men's Freestyle) - Gold

• Deepak Punia (Men's Freestyle) - Gold

• Anshu Malik (Women's Freestyle) - Gold

• Sakshi Malik (Women's Freestyle) - Gold

• Amit Dhankar (Men's Freestyle) - Gold

• Ravi Kumar Dahiya (Men's Freestyle) - Gold

Important Points

• The first Asian Wrestling Championship was held in Jalandhar, India in 1979.

• The men's event began in 1979, and the women's event was first held in 1996.

Q78. Answer: (d) Bombay

The correct answer is Bombay.

Key Points

• The Prarthana Samaj was established in 1867 in Bombay (now Mumbai), India.

• This was founded by Dr. Atma Ram Pandurang.

• Other reformers related to Prarthana Samaj were Mahadev Govind Ranade and R. G. Bhandarkar.

• The organization aimed to promote social reform, rational thinking, and religious and social equality.

Additional Information

• Fergusson College was established in 1885 in Pune (formerly Poona) by the efforts of the Prarthana Samaj and its leaders.

• Mahadev Govind Ranade (1842–1901) was a prominent social reformer, historian, and judge in 19th-century India.

• Justice Mahadev Gobind Ranade joined Prarthana Samaj in 1870.

• His works include "Rise of the Maratha Power" and "The Administration of the Marathas," which provided detailed insights into the Maratha Empire and its administration.

Important Points

Socio-Religious Movements/ Organisations	Founders
Prarthana Samaj	Dr Atmaram Pandurang
Arya Samaj	Swami Dayanand Saraswati
Ramkrishna Mission	Swami Vivekanand
People's Education Society	Dr. B.R. Ambedkar
Satyasodhak Samaj	Jyotiba Phule

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Q79. Answer: (d) Kerala

The correct answer is Kerala.

Key Points

• Kerala is the first state in India to receive rainfall from the Southwest Monsoon.

• This is because the Arabian Sea branch of the monsoon first hits the Western Ghats of Kerala.

• Kerala has a tropical monsoon climate, characterized by a lengthy rainy season that extends from June to September.

• The monsoon season in India typically lasts from June to September.

Additional Information

• The monsoon season in India has two parts: the Southwest monsoon and the North-East monsoon.

• The Southwest monsoon brings rain to most of the country, while the northeast monsoon brings rain to parts of southern India.

• The monsoon brings the most rain to western and central India, where it accounts for over 90% of the annual rainfall.

• In southern and northwestern India, the monsoon accounts for 50–75% of the annual rainfall.

• The monsoon is caused by moist winds from the southwest that are drawn up from the oceans.

• The monsoon blows from the northeast during the cooler months and reverses direction to blow from the southwest during the warmer months.

Q80. Answer: (c) page setup dialog box

The correct answer is Page setup dailog box.

Key Points

• Spreadsheet application like Microsoft Excel, you can change the page orientation through the following steps:

1. Open "Page Layout" tab.
2. Select "Orientation" in "Page Setup."
3. Choose "Portrait" or "Landscape."
4. Confirm and save changes.

Additional Information

Here are some essential Excel shortcuts:

• Ctrl + N: New workbook

• Ctrl + S: Save

• Ctrl + C: Copy

• Ctrl + V: Paste

• Ctrl + Z: Undo

• Ctrl + Arrow Keys: Navigate edges

• Ctrl + B: Bold

• Ctrl + 1: Format Cells

Q81. Answer: (a) Protoderm

The correct answer is Protoderm.

Key Points

• Protoderm is the outermost primary meristem in plants.

• In roots, it differentiates to form the epidermis.

• Produces epidermal cells, including root hairs.

• Root hairs play a crucial role in water and nutrient absorption.

• Acts as a protective barrier.

• Facilitates root-soil interactions.

Additional Information

• Axillary buds, located at leaf-stem junctions, can grow into branches or flowers, influenced by hormonal signals and environmental factors.

• A leaf primordium is the initial embryonic tissue from which a leaf develops, found at the shoot apex or growing tip.

• Vascular tissue in plants consists of xylem and phloem.

• Xylem transports water and minerals from roots, providing structural support with tracheids, vessels, and fibers.

• Phloem transports sugars and nutrients throughout the plant.

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Q82. Answer: (b) Prithviraj Chauhan

The correct answer is Prithviraj Chauhan.

Key Points

• First Battle of Tarain (1191):

• Participants: Prithviraj Chauhan vs. Muhammad of Ghori.

• Outcome: Victory for Prithviraj Chauhan.

• Second Battle of Tarain (1192):

• Participants: Prithviraj Chauhan vs. Muhammad of Ghori.

• Outcome: Decisive victory for Muhammad of Ghori.

• Consequence: Prithviraj Chauhan was captured and executed; established Muslim rule in northern India.

• Significance:

1. Paved the way for the Delhi Sultanate.

2. Qutb-ud-din Aibak, Muhammad of Ghori's former slave, founded the Mamluk Dynasty in 1206, establishing the first Delhi Sultanate.

Additional Information

• Vasudeva founded the Kanva Dynasty.

• Overthrew the last Shunga king around 75 BCE.

• Ruled parts of northern and central India.

• Yashovarman of Kannauj: 8th-century king, founded Varman dynasty, military conquests, patron of arts, defeated Bengal ruler.

• Vidyadhar: 11th-century ruler of Chandela dynasty, fortified Khajuraho temples, resisted Ghaznavid invasions, patron of architecture.

Q83. Answer: (d) 1966 - 1969

The correct answer is 1966 - 1969.

Key Points

• Period: Plan Holidays occurred from 1966 to 1969.

• Reason: The failure of the Third Five-Year Plan due to economic crises like wars and drought.

• Focus: Emphasis was placed on agriculture and price stabilization instead of long-term planning.

• Result: Short-term plans were implemented to address immediate economic issues before resuming regular Five-Year Plans.

Additional Information

• Context: The Plan Holidays were introduced after the Third Five-Year Plan (1961–1966) failed to meet its objectives due to multiple setbacks like the Indo-China War (1962), Indo-Pak War (1965), and severe droughts in 1965 and 1966.

• Economic Impact: These events caused food shortages, inflation, and a balance of payments crisis, forcing the government to temporarily halt long-term planning.

• Interim Plans: During the Plan Holidays, the government implemented Annual Plans focusing on critical sectors like agriculture, irrigation, and employment creation to stabilize the economy.

• Resumption: The Fourth Five-Year Plan (1969–1974) resumed after these Plan Holidays, aiming to promote growth and self-reliance in the economy.

Q84. Answer: (c) Manipuri

The correct answer is Manipuri.

Key Points

Manipuri

• Divisions: Jagoi and Cholom.

• Jagoi:

• Type: Refers to the dance performances in Manipuri.

• Characteristics: Typically features graceful and delicate movements with a focus on expressive storytelling and spiritual themes.

• Performances: Often involve solo or group dances that highlight narrative and emotional expression.

• Cholom:

• Type: Refers to the percussive and vigorous dance style.

• Characteristics: Known for its energetic movements and complex footwork.

• Performances: Often performed during festivals and ritualistic ceremonies, showcasing drum rhythms and martial elements.

• Both Jagoi and Cholom are integral parts of Manipuri dance, highlighting its diverse range of expressions from serene and

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devotional to dynamic and vigorous.

Additional Information

Classical and Traditional Dance Forms from Northeast India:

Dance Form	Origin
Manipuri	Manipur
Sattriya	Assam
Bodo Dance	Assam
Khasi Dance	Meghalaya
Naga Dance	Nagaland
Mizo Dance	Mizoram

Q85. Answer: (d) one-half

The correct answer is one-half.

Key Points

• Resistance Relationship: The resistance of a wire is directly proportional to its length. Doubling the length of the wire doubles its resistance.

• Current and Resistance: According to Ohm's Law, for a constant voltage, if resistance doubles, the current is halved.

• Practical Impact: In a practical circuit, this means that if you double the length of the wire, the increased resistance will result in less current flowing through the circuit.

• Ammeter Impact: Since the current is halved, the ammeter reading will show a value that is half of the original reading before the wire was lengthened.

Additional Information

Before Doubling Length:

+----[R]----+

| |

[V] [A]

| |

+-----------+

After Doubling Length:

+----[2R]----+

| |

[V] [A']

| |

+------------+

• Increased Distance: The distance between the voltage source (V) and the component (A) has been doubled.

• Circuit Path: The path connecting the voltage source to the component and resistor is longer.

• Component Placement: The resistor (R) remains in the same position relative to the voltage source and the other component, but the overall length of the connecting path is increased.

• Potential Effects:

• Resistance: Longer lengths can lead to increased resistance in real-world applications due to the longer conductor path.

• Signal Delay: In high-frequency circuits, doubling the length can affect signal propagation times

Important Points

Scientist	Discovery/Contribution	Impact
Georg Simon Ohm	Ohm's Law: V=IR	Relationship between voltage, current, and resistance.
James Clerk Maxwell	Maxwell's Equations	Foundation of electromagnetism.
Michael Faraday	Faraday's Law of Induction	Induction of electric current by changing magnetic fields.

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André-Marie Ampère	Ampère's Law	The link between electric currents and magnetic fields.

Q86. Answer: (c) It is a gas giant made up mostly of hydrogen and helium and the density is less than that of water.

The correct answer is It is a gas giant made up mostly of hydrogen and helium and the density is less than that of water.

Key Points

• Saturn is a gas giant composed primarily of hydrogen and helium, making it the least dense planet in the solar system.

• It is renowned for its extensive and complex ring system, made up of ice particles, rocky debris, and dust.

• Saturn has at least 82 moons, with Titan being the largest and the second-largest moon in the solar system.

• It possesses a strong magnetic field, which is influenced by its rapid rotation and metallic hydrogen interior.

• Saturn's average density is less than that of water, meaning it would float if there were a large enough body of water.

• Saturn takes about 29.5 Earth years to complete one orbit around the Sun, and it has a relatively short day, taking approximately 10.7 hours to complete one rotation on its axis.

Additional Information

• The seventh planet discovered in the Solar System is Uranus. Uranus was discovered by William Herschel in 1781.

• It is the third-largest planet in our Solar System and is unique for its axis, which is tilted almost sideways.

• Sun The central star and the largest object in the Solar System, providing the necessary heat and light.

Inner Planets (Terrestrial Planets):

1. Mercury: The smallest and closest planet to the Sun, with extreme temperatures.
2. Venus: Similar in size to Earth but with a thick, toxic atmosphere and extreme heat.
3. Earth: The only known planet to support life, with a diverse climate and water.
4. Mars: Known as the Red Planet, with the largest volcano and canyon in the Solar System.

Outer Planets (Gas Giants and Ice Giants)

1. Jupiter: The largest planet, with a strong magnetic field and many moons, including Ganymede, the largest moon in the Solar System.
2. Saturn: Famous for its beautiful ring system and numerous moons.
3. Uranus: An ice giant with a tilted rotational axis and faint rings
4. Neptune: Another ice giant known for its strong winds and deep blue color.

• Asteroid Belt: A region between Mars and Jupiter filled with rocky debris and dwarf planets like Ceres.

Q87. Answer: (c) All rounder

The correct answer is All rounder.

Key Points

• "All rounder" is not a standard position in basketball.

• The term is more commonly used in cricket to describe a player who is skilled both in batting and bowling.

• In basketball, the typical positions are:

• Point guard – The player who runs the team's offense and is usually the primary ball handler.

• Shooting guard – A player who is generally a good scorer, especially from long-range.

• Small forward – A versatile player who can play both offensive and defensive roles, often responsible for scoring and defending.

Additional Information

Sport	Important Terminology
Cricket	Over, Wicket, Duck, LBW, Bouncer, Yorker, Test match
Football (Soccer)	Goal, Offside, Penalty, Corner kick, Free kick, Dribbling, Header, Tackle, Midfield
Hockey	Stick, Goalkeeper, Faceoff, Power play, Slapshot, Penalty corner, Offside, Breakaway
Kabaddi	Raid, Tackle, Chaser, Raider, Anticipation, Do-or-die, Bonus, Circle, Pola
Badminton	Shuttlecock, Smash, Rally, Clear, Drop shot, Serve, Fault
Wrestling	Pin, Mat, Takedown, Hold, Submission, Grapple, Suplex, Armbar, Double leg, Points

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Boxing	Knockout, Punch, Jab, Uppercut, Round, TKO (Technical Knockout), Clinch, Ring

Q88. Answer: (d) West Bengal

The correct answer is West Bengal.

Key Points

• Chau dance is a traditional martial art dance form that originates from Eastern India, particularly in the states of West Bengal, Odisha, and Jharkhand.

• There are three main styles of Chau dance, named after the regions they come from: Purulia (West Bengal), Seraikella (Jharkhand), and Mayurbhanj (Odisha). Each has its unique characteristics and variations.

• Purulia and Seraikella Chau are notable for their elaborate costumes and vibrant masks, which are integral to the performance.

• Chau dance holds significant cultural importance in the regions it originates from, symbolizing the valor, history, and artistic creativity of the local communities.

Additional Information

• The dance often depicts episodes from epics like the Ramayana and Mahabharata, as well as themes from folk traditions and mythologies.

• In contrast, Mayurbhanj Chau is performed without masks, relying more on facial expressions.

• The dance is accompanied by traditional music, played on instruments such as the dhol (drum), shehnai (woodwind instrument), and dhamsa (large kettle drum), which add to the dramatic effect.

• The movements of Chau dance are highly energetic and include martial arts techniques, acrobatics, and intricate footwork, reflecting its origins in warrior traditions.

Important Points

List of Classical Dance in India	State of Origin
Kuchipudi	Andhra Pradesh
Sattriya	Assam
Mohiniyattam	Kerala
Kathakali	Kerala
Manipuri	Manipur
Odissi	Odisha
Bharatanatyam	Tamil Nadu
Kathak	Uttar Pradesh

Q89. Answer: (c) 2020

The correct answer is 2020.

Key Points

• The Aatmanirbhar Bharat Rojgar Yojna (ABRY) was launched on 1st October 2020.

• ABRY was launched by The Ministry of Labour and Employment of India.

• It was Primarily for the workers especially those working in MSMEs(Micro Small and Medium Enterprises).

• The Government allocated a sum of Rs 22,810 crore.

Additional Information

SCHEME/POLICY	LAUNCHED IN YEAR
Pradhan Mantri Jan Dhan Yojana(PMJDY)	2014
Make in India Scheme	2014
Swachh Bharat Mission	2014
Pradhan Mantri Awaas Yojana	2015
Pradhan Mantri Ujjwala Yojana	2016
Pradhan Mantri Fasal Bima Yojana(PMFBY)	2016

Pradhan Mantri Garib kalyan Yojana(PMGKY)	2020
Jal Jeevan Mission	2019
Atal Pension Yojana(APY)	2015

Q90. Answer: (c) PM Pranam

The correct answer is PM Pranam

Key Points

• PM Pranam is a scheme announced in the Union Budget 2023-24.

• The scheme is focused on minimising the use of chemical fertilisers in agriculture.

• It aims to promote sustainable farming practices and reduce environmental impact.

• The scheme encourages the adoption of alternative fertilisers and organic farming techniques.

• It is part of the government's broader initiative to enhance soil health and ensure long-term agricultural productivity.

Additional Information

• PM DevINE is a scheme for infrastructure and social development projects in the North-East region.

• PM Shri is a scheme for upgrading schools to showcase the components of the National Education Policy.

• SEEDScheme (Scheme for Economic Empowerment of DNTs) is aimed at the economic empowerment of Denotified, Nomadic, and Semi-Nomadic Tribes.

Q91. Answer: (c) Thaawar Chand Gehlot

The correct answer is Thaawar Chand Gehlot

Key Points

• Thaawar Chand Gehlot was appointed as the Governor of Karnataka in July 2021 by the President of India.

• His appointment was part of a reshuffling of governors in various states.

• Before his appointment as Governor, Thaawar Chand Gehlot served as the Minister of Social Justice and Empowerment in the Government of India.

• He has been a prominent leader in the Bharatiya Janata Party (BJP) and has held various important positions within the party.

• Gehlot's vast experience in public service and governance is expected to benefit the state of Karnataka during his tenure as Governor.

Additional Information

• The role of the Governor is largely ceremonial, but they play a crucial role in the functioning of the state's constitutional machinery.

• The Governor has the power to summon, prorogue, and dissolve the state legislative assembly.

• They also have the authority to appoint the Chief Minister and other ministers of the state.

• Governors act as a bridge between the Union Government and the State Government, ensuring that the state's administration is carried out as per the provisions of the Constitution.

Q92. Answer: (b) Madhya Pradesh

The correct answer is Madhya Pradesh

Key Points

• The 5th edition of the Khelo India Youth Games 2023 was hosted by Madhya Pradesh.

• The games were held between January and February 2023.

• Madhya Pradesh has been chosen to host this edition due to its excellent sports infrastructure and facilities.

• The event aims to identify and nurture young sporting talent from across the country.

Additional Information

• Khelo India is an initiative by the Government of India to promote sports and fitness among the youth.

• The program was launched in 2018 and has since become a prominent platform for young athletes.

• The Khelo India Youth Games is an annual event that features multiple sports disciplines and sees participation from young athletes across India.

• The initiative also includes the Khelo India School Games, Khelo India University Games, and Khelo India Winter Games.

• The primary objective is to encourage mass participation and create a strong sporting culture in the country.

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Q93. Answer: (a) the existence of more than one level of government in the country

The correct answer is the existence of more than one level of government in the country.

Key Points

• In the Indian constitutional context, federalism refers to a system of governance where power is divided between a central authority (the Union government) and various regional entities (the State governments).

• Indian federalism is unique and is often described as "quasi-federal" because it combines both federal and unitary features.

• While states have autonomy in certain areas, the central government holds more power, especially in times of crisis or national interest.

• The Constitution divides legislative, administrative, and financial powers between the Union and the States through three lists (Union List (central government powers), State List (state government powers) and Concurrent List (shared powers between the Union and the States) in the Seventh Schedule.

Additional InformationKey Constitutional Articles

• Article 1: Defines India as a Union of States.

• Article 245-255: Deals with the distribution of powers between the Union and the States.

• Article 256: Directs the States to comply with the laws made by the Union.

• Article 256: Provides for the appointment of a Governor for each state to act as a liaison between the State and the Union.

Q94. Answer: (b) Madhya Pradesh

The correct answer is Madhya Pradesh

Key Points

• Madhya Pradesh tribal-dominated Mandla district became the first fully "functionally literate" district in the country in August 2023.

• This milestone was achieved through extensive educational initiatives and community participation aimed at improving literacy rates.

• The district implemented various programs targeting different age groups and demographics to ensure comprehensive literacy.

• Functional literacy involves not just the ability to read and write, but also the ability to apply these skills in everyday life, such as reading a bus schedule or filling out a form.

Additional Information

• Literacy plays a crucial role in the socio-economic development of a region.

• Various state and central government schemes have been implemented to improve literacy rates across India.

• The National Literacy Mission, launched in 1988, aims to make 80 million adults literate by focusing on the age group of 15-35 years.

• India has seen a steady increase in literacy rates over the decades, with significant contributions from both governmental and non-governmental organizations.

Q95. Answer: (b) Fiscal deficit

The correct answer is Fiscal deficit.

Key Points

• Fiscal Deficit is the difference between a government's total expenditure and its total revenue, excluding any borrowing, within a specific fiscal year.

• Formula

• Fiscal Deficit=Total Expenditure−(Total Revenue+Non-Debt Receipts)

• Impact on the Economy:

• Inflation: Persistent fiscal deficits can lead to higher inflation if funded by printing more money.

• Interest Rates: Higher fiscal deficits can lead to increased borrowing costs as the government competes for funds in the financial markets.

• Public Debt: A high fiscal deficit adds to the government’s debt burden, potentially leading to higher interest payments in the future.

• Policy Measures

• Increase Revenue: Through higher taxes or better tax compliance.

• Reduce Expenditure: By cutting down on non-essential spending.

• Borrow Responsibly: Managing debt to ensure it does not become unsustainable.

Additional Information

Type of Deficit	Definition

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Income Deficit	The shortfall between total government revenue and total government expenditure.
Structural Deficit	The part of the fiscal deficit that arises from structural imbalances in the economy and budgetary policies.
Gross Primary Deficit	The fiscal deficit before accounting for interest payments on previous borrowings.

Q96. Answer: (b) 1 - d, 2 - b, 3 - a, 4 - c

The correct answer is 1 - d, 2 - b, 3 - a, 4 - c.

Key Points

• Mormugao Port is a major port on the west coast of India, primarily handling iron ore exports and located in Goa.

• Paradip Port is a deep-water port located in Odisha, serving as a major center for bulk cargo including coal and iron ore.

• Haldia Port is an important river port in West Bengal, located on the Hooghly River, handling cargo such as petroleum products and chemicals.

• Tuticorin Port (now known as V.O. Chidambaranar Port) is situated in Tamil Nadu and is a key port for handling container traffic and cargo such as coal and fertilizer.

Additional Information

Most important ports in India:

Port	State
Mumbai Port	Maharashtra
Jawaharlal Nehru Port (JNPT)	Maharashtra
Kandla Port	Gujarat
New Mangalore Port	Karnataka
Kochi Port	Kerala
Chennai Port	Tamil Nadu
Dhamra Port	Odisha
Sikka Port	Gujarat
Port Blair Port	Andaman and Nicobar Islands
Visakhapatnam Port	Andhra Pradesh

Q97. Answer: (b) 10

The correct answer is 10.

Key Points

• The concept of Thaat in Hindustani Music was systemized by Pandit Vishnu Narayan Bhatkhande in the early 20^(th) century.

• He learned classical music from Balakrishnabuwa Ichalkaranjikar and Ali Hussain Khan.

• He established Marris College of Music in Lucknow, later renamed Bhatkhande Music Institute.

• He passed away on 19 September 1936.

Additional Information

• His system of Thaats was often compared with the Melakarta system in Carnatic Music, which has 72 Parent Scales.

• Bhairav and Todi are typically performed in the morning.

• Marwa and Poorvi are evening Thaats.

• Kalyan is usually performed early at night.

Name of Thaats	Notes used(Swaras)	Example Raga
Bilawal Thaat	S, R, G, M, P, D, N (all shuddh swaras)	Bilawal, Alhaiya
Khamaj Thaat	S, R, G, M, P, D. n (Komal Ni)	Khamaj, Des
Kafi Thaat	S, R, g, M, P, D, n (Komal Ga, Ni)	Kafi, Bageshree

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Asavari	S, R,g, M, P, d, n (Komal Ga, Dha, Ni)	Asavari, Jaunpuri
Bhairavi	S, r, g, M, P, d, n (komal Re, Ga, Dha, Ni)	Bhairavi, Sindhi Bhairavi
Bhairav	S, r, G, M, P, d, N (Komal Re, Dha,)	Bhairav, Ahir Bhairav
Kalyan	S, R, G, M, P, D, N (Tivra Ma)	Yaman, Bhupali
Marwa	S, r, G, M, P, D, N (Komal Re, Tivra Ma)	Marwa, Puriya
Poorvi	S, r, G, M, P, d, N (Komal Re, Dha,Tivra Ma)	Poorvi, Gauri
Todi	S,r, g, M, P, d, N (komal Re, Ga, Dha, Tivra Ma)	Todi, Miyan ki Todi

Q98. Answer: (b) Fundamental Duties

The correct answer is Fundamental Duties.

Key Points

• Fundamental duties were added to the Indian Constitution by the 42nd Amendment Act in 1976.

• They are mentioned in Article 51A of Part IVA of the Constitution.

• Initially, there were 10 fundamental duties. The 86th Amendment Act in 2002 added the 11th duty.

• The 11th duty (added in 2002) relates to providing opportunities for education to children between 6-14 years.

Additional Information

• Citizenship is in the Part-II of the Indian Constitution which includes Articles(5 to 11).

• Fundamental Rights is in the Part-III of the Indian Constitution which includes Articles(12 to 35).

• Directive Principles of States of State Policy is the Part-IV of the Indian Constitution which includes Articles(36 to 51).

• Article 32 is the "Heart and Soul" of the Constitution as per Dr. B.R. Ambedkar.

• Fundamental Rights can be suspended during National emergency(Article-352), Except Article 20 and 21.

Q99. Answer: (b) Select cell → Right click → Format cell

The correct answer is Select cell → Right click → Format cell

Key Points

• To format a cell in an MS Excel Spreadsheet, you need to first select the cell you want to format.

• After selecting the cell, right-click on the selected cell to open the context menu.

• From the context menu, choose the "Format Cells..." option to open the Format Cells dialog box.

• This dialog box allows you to change various cell properties such as number format, alignment, font, border, and fill.

• Formatting cells can help make your data more readable and visually appealing.

Additional Information

• MS Excel is a powerful spreadsheet software developed by Microsoft, widely used for data analysis, financial modeling, and data visualization.

• It offers a range of features including formulas, charts, pivot tables, and conditional formatting to enhance data manipulation and presentation.

• Excel supports various file formats including .xlsx, .xls, .csv, and more, making it versatile for different types of data work.

• Users can also use Excel's built-in functions and macros to automate repetitive tasks and improve efficiency.

• Consistent use of cell formatting helps maintain a professional and organized appearance of your spreadsheets.

Q100. Answer: (d) Jamnagar

The correct answer is Jamnagar

Key Points

• The oldest centre of lace work in Gujarat is located in Jamnagar.

• Jamnagar is renowned for its traditional lace-making techniques and has a rich history in the craft.

• Lace work in Jamnagar includes intricate designs and patterns, often used in traditional garments and home decor.

• The craft has been passed down through generations, preserving the cultural heritage of the region.

Additional Information

• Jamnagar is not only famous for lace work but also for its bandhani (tie-dye) textiles.

• The city has a vibrant history and is known for its beautiful palaces, temples, and museums.

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- Jamnagar is often referred to as the "Jewel of Kathiawar" due to its historical and cultural significance.

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