SSC CHSL Tier-1 2024: Official Paper (Held On: 10 Jul, 2024 Shift 4) (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. Select the option with the correct use of article(s).

(a) William Wordsworth was a romantic poet. He did things in an unusual manner.
(b) William Wordsworth was romantic poet. He did things in an unusual manner.
(c) William Wordsworth was the romantic poet. He did things in a unusual manner.
(d) William Wordsworth was a romantic poet. He did things in a unusual manner.

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

The manager noticed / that Pragya / was first to reach / the office on Saturday.

(a) was first to reach
(b) the office on Saturday.
(c) that Pragya
(d) The manager noticed

Q3. Parts of the following sentence have been given as options. Select the option that contains an error.

The chief guest gave out prizes to the meritorious students of the school.

(a) of the school.
(b) The chief guest
(c) to the meritorious students
(d) gave out prizes

Q4. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Mathematics help/ in developing/ the logical mindset /of students.

(a) in developing
(b) of students
(c) the logical mindset
(d) Mathematics help

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.

Water is 1._____ for life and for good health. Not only is it necessary for us to be able to meet our daily needs but safe drinking water can 2._ many water-related diseases. India has one of the largest number of cases of 3._ such as diarrhoea, dysentery, and cholera. Over 1,600 Indians, most of them children below the age of five, 4.____ die every day because of water-related diseases. These deaths can be prevented if people have 5._____ to safe drinking water.

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

(a) intrinsic
(b) essential
(c) primary

(d) insistent

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

(a) prevent
(b) forbid
(c) restrain
(d) hamper

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

(a) sufferings
(b) diseases
(c) laments
(d) distress

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

(a) ostensibly
(b) distinctly
(c) assuredly
(d) reportedly

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

(a) entrance
(b) accession
(c) providence
(d) access

Q10. Select the most appropriate option that can substitute the underlined word in the given sentence.

She argued against the unnecessary split in the committee.

(a) division
(b) mix
(c) blend
(d) combination

Q11. Select the most appropriate ANTONYM of the underlined word in the given sentence.

His feeble opponent was no match to him and ultimately he won the challenge.

(a) Strong
(b) Intelligent
(c) Major
(d) Mystic

Q12. 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 substitution required'.

It has been found that the trees are being destroyed by a moth.

(a) No substitution required
(b) have destroyed
(c) have been destroying
(d) is being destroyed

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

Evasive

(a) Equivocal
(b) Cohesive
(c) Accessible
(d) Abrasive

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Q14. Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.

You can't stop the _____ (outflow) of current.

(a) deluge
(b) income
(c) influx
(d) torrent

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

Impulsive

(a) Passive
(b) Aggressive
(c) Cautious
(d) Hasty

Q16. Select the most appropriate option that can substitute the underlined segment in the following sentence.

Had you been to Dubai, I would also go with you.

(a) I would have gone
(b) I would has also gone
(c) I will have went
(d) I shall be gone

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

This serum contains ingredients enabling the hair to grow.

(a) for growing many hair
(b) that enable the hair to grow
(c) the enable grow hair
(d) for growth hair

Q18. Select the most appropriate option to fill in the blank.

Tom is trying to _____ as soon as possible.

(a) experience a job
(b) receive a job
(c) get a job
(d) learn a job

Q19. Select the most appropriate ANTONYM of the word 'Commence' from the given sentence.

Let's put an end to this discussion about voodoo and instead talk about something amusing.

(a) voodoo
(b) discussion
(c) amusing
(d) end

Q20. Select the most appropriate meaning of the given idiom.

Costing an arm and a leg

(a) Very entertaining and jovial
(b) Very attractive and cheap
(c) Very costly and luxurious
(d) Very rough and tough

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

There are a number of artists currently creating unique, collectble teapots.

(a) currantly
(b) currintly
(c) collectable

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(d) collectibile

Q22. Select the word segment from the options that can substitute the bracketed word segment meaningfully.

Telangana artists (are know for the amazing bronze castings).

(a) Is known to the amazing bronze castings
(b) Have to know the amazing bronze castings
(c) Have been knew to the amazing bronze castings
(d) Are known for their amazing bronze castings

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

Massive

(a) Tall
(b) Formidable
(c) Tiny
(d) Heavy

Q24. Select the most appropriate meaning of the given idiom.

Going through a sticky patch

(a) To experience a bad period in life
(b) To feel sad
(c) To walk on a muddy road
(d) Try to paste something unsuccessfully

Q25. Select the INCORRECTLY spelt word.

(a) Neice
(b) Dilemma
(c) Warranty
(d) Committee

GENERAL INTELLIGENCE

Q26. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

24 ÷ 10 + 68 × 2 - 16 = ?

(a) 222
(b) 242
(c) 232
(d) 252

Q27. If 27 September 2001 was a Thursday, then what was the day of the week on 22 October 2009?

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

Q28. Three statements are followed by conclusions numbered I, II. You have to consider these statements to be true, even if they seem to be at variance with commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.

Statements:

Some leaves are trees.

All stones are grain.

Some grains are leaves.

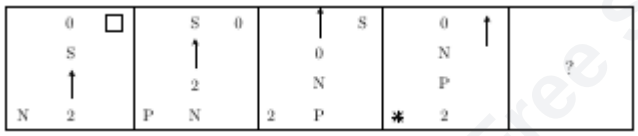
Conclusion (I): All grains are trees.

Conclusion (II): Some leaves are stones.

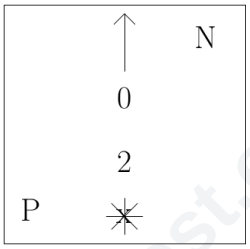
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(a) Neither conclusion (I) nor (II) follows.
(b) Both conclusions (I) and (II) follow.
(c) Only conclusion (II) follows.
(d) Only conclusion (I) follows.

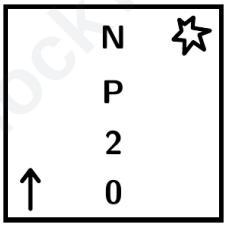
Q29. Which figure should replace the question mark (?) if the following figure series were to be continued?



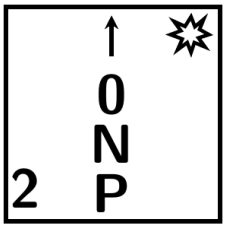
(a)



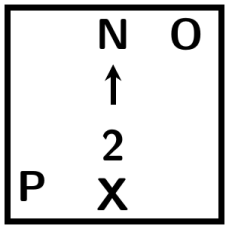
(b)



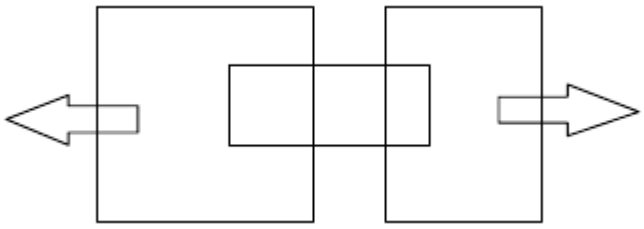
(c)



(d)



Q30. How many rectangles are there in the following figure?



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

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(d) 11

Q31. In a certain code language,

'M & N' means 'M is the wife of N',

'M @ N' means 'M is the son of N',

'M $ N' means 'M is the mother of N'.

Based on the above, how is R related to O if 'N $ O @ P @ Q & R'?

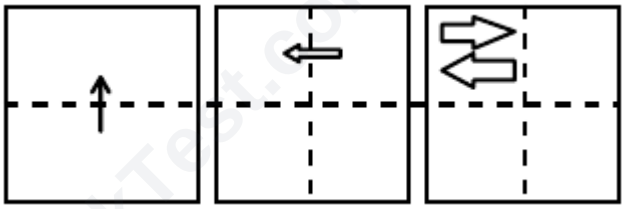
(a) Father's father

(b) Mother's brother

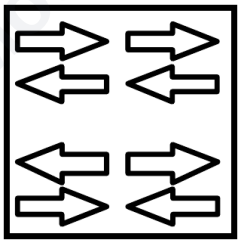
(c) Father's brother

(d) Mother's father

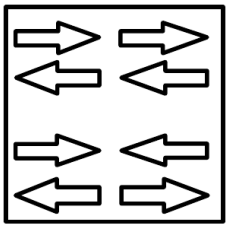
Q32. A square sheet of paper is folded along the dotted line successively along the directions shown and is then punched in the last. How would the paper look when unfolded?



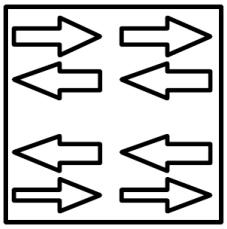
(a)



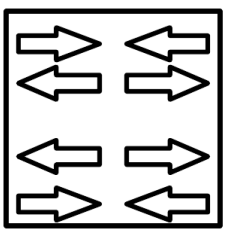
(b)



(c)



(d)



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Q33. What will come in the place of the question mark (?) in the following equation, if '+' and '×' are interchanged and '-' and '÷' are interchanged?

123 - 41 × 14 + 2 ÷ 7 = ?

(a) 20
(b) 23
(c) 22
(d) 24

Q34. Which two numbers should be interchanged to make the given equation correct?

35 + (25 × 3 − 45) ÷ 2 + (15 × 4) = 125

(NOTE: Numbers must be interchanged and not the constituent digits e.g. if 2 and 3 are to be interchanged in the equation 43 × 3 + 4 ÷ 2, then interchanged equation is 43 × 2 + 4 ÷ 3)

(a) 25 and 35
(b) 15 and 25
(c) 2 and 15
(d) 35 and 45

Q35. What should come in place of ? in the given series?

33 32 35 34 37 ?

(a) 38
(b) 37
(c) 40
(d) 36

Q36. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

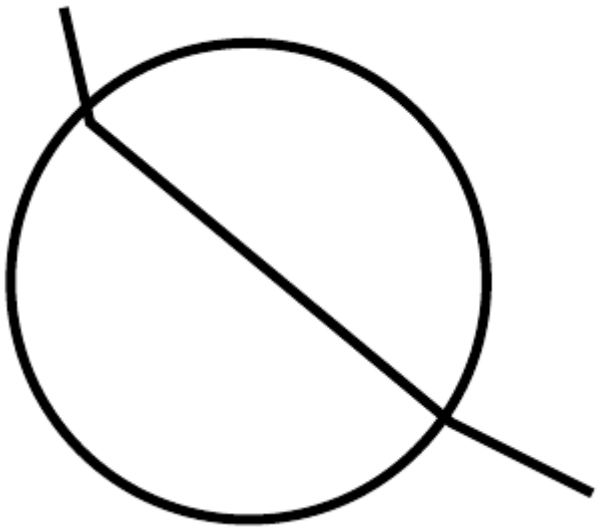
DGB, GKG, JOL, MSQ, ?

(a) PVT
(b) QWU
(c) PWV
(d) RXV

Q37. If 17 December 2012 was Monday, then what was the day of the week on 18 November 2020?

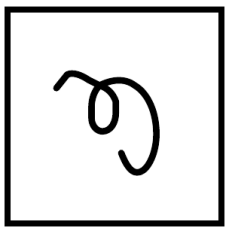
(a) Tuesday
(b) Wednesday
(c) Thursday
(d) Sunday

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

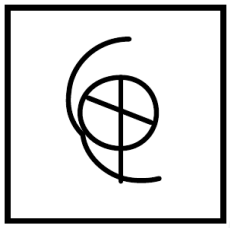


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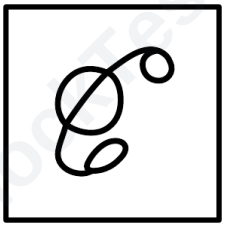
(a)



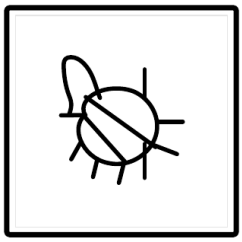
(b)



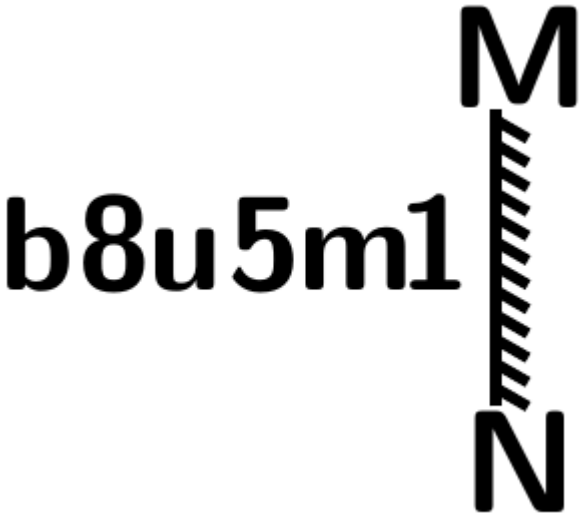
(c)



(d)



Q39. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



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(a)



(b)



(c)



(d)



Q40. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

1) FGNOP

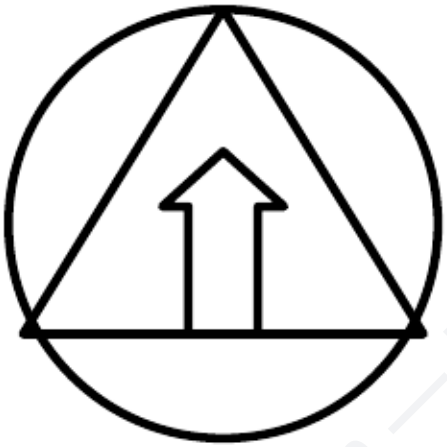
2) IJQRS

3) OPWXY

4) RSXYZ

(a) IJQRS
(b) FGNOP
(c) RSXYZ
(d) OPWXY

Q41. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

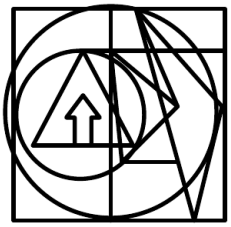


(x)

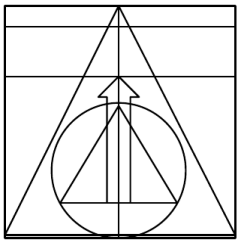
(a)



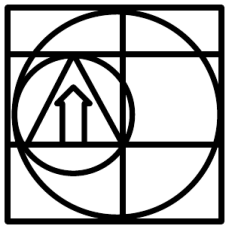
(b)



(c)



(d)



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Q42. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

92 × 2 - 13 + 2 ÷ 6 = ?

(a) 47
(b) 48
(c) 46
(d) 49

Q43. In a certain code language, ‘RIVER’ is coded as ‘SJWFS’ and ‘SYSTEM’ is coded as ‘TZTUFN’. How is ‘PACK’ coded in that language?

(a) RBDL
(b) QBDL
(c) QCEL
(d) RCEK

Q44. 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 1 and 3 is not allowed)

(32, 35, 201)

(26, 29, 165)

(a) (28, 31, 197)
(b) (23, 26, 147)
(c) (39, 42, 256)
(d) (34, 37, 203)

Q45. In a certain code language, 'try something new' is coded as 'db kl jk' and 'something hurt him' is coded as 'db pt uk'. How is ‘something' coded in that language?

(a) kl
(b) db
(c) uk
(d) jk

Q46. Choose the word-pair that best represents the same relationship as expressed in the pair of words given below.

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

Loaning : Borrowing

(a) clear : neat
(b) cruel : kind
(c) Silence : quiet
(d) frosty : cold

Q47. 102 is related to 34 following a certain logic. Following the same logic, 171 is related to 57.To which of the following is 237 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 /deleting /multiplying etc., to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(a) 71
(b) 79
(c) 73
(d) 77

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Q48. QTWA is related to ZCFJ in a certain way based on the English alphabetical order. In the same way, MKBZ is related to VTKI. To which of the following is EYCM related, following the same logic?

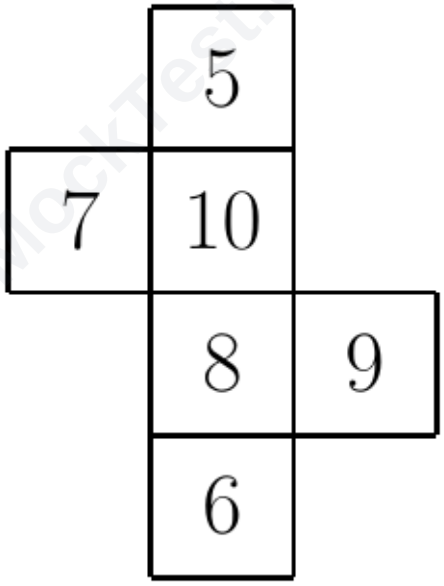
(a) NHLV
(b) NVHL
(c) NLHV
(d) NLVH

Q49. Select the term from among the given options that can replace the question mark (?) in the following series based on the English alphabetical order,

XYZ, YAC, ?, AEI, BGL, CIO

(a) ZAB
(b) YZL
(c) MOP
(d) ZCF

Q50. What would be the number on the opposite side of '7' if the given sheet is folded to form a cube?



(a) 9
(b) 8
(c) 6
(d) 5

QUANTITATIVE APTITUDE

Q51. Ramu invested some money at 8% simple interest per annum, and it was grown up to Rs. 820 in 8 years. If the same sum was invested at 20% simple interest per annum for a period of 10 years, find the amount.

(a) Rs. 1,000
(b) Rs. 1,320
(c) Rs. 1,500
(d) Rs. 1,200

Q52. Two numbers are respectively 61% and 35% less than a third number. The first number is what percentage of the second number?

(a) 24%
(b) 48%
(c) 30%
(d) 60%

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Q53. In an isosceles triangle, the vertex angle is four times the sum of the base angles. The measure of the square root of the vertex angle is:

(a) 18°
(b) 12°
(c) 16°
(d) 10°

Q54. If the surface area of the sphere is 616 cm², then the radius of the sphere is equal to:

(a) 3.5 cm
(b) 7.0 cm
(c) 14.0 cm
(d) 18.0 cm

Q55. Evaluate $(9 \sin\theta + 2 \cos\theta) / (9 \sin\theta - 2 \cos\theta)$, if $3 \tan\theta = 4$.

(a) 6/5
(b) 9/7
(c) 7/5
(d) 5/7

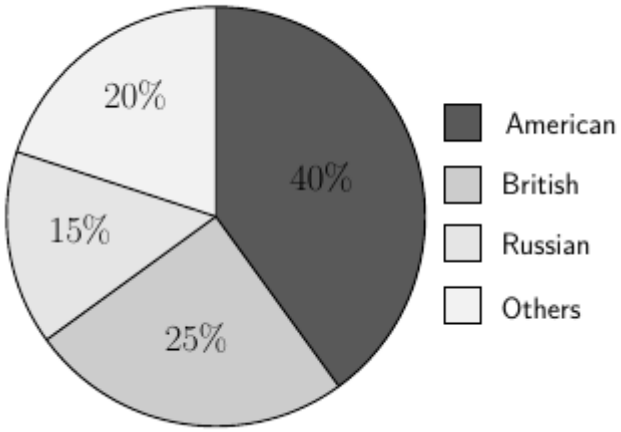
Q56. In an election between two candidates, Ananth and Aravind, Ananth got 55% of the total valid votes, and 20% of the votes were invalid. If the total number of votes was 30,000, find the number of valid votes that Aravind got.

(a) 24000
(b) 13200
(c) 1080
(d) 10800

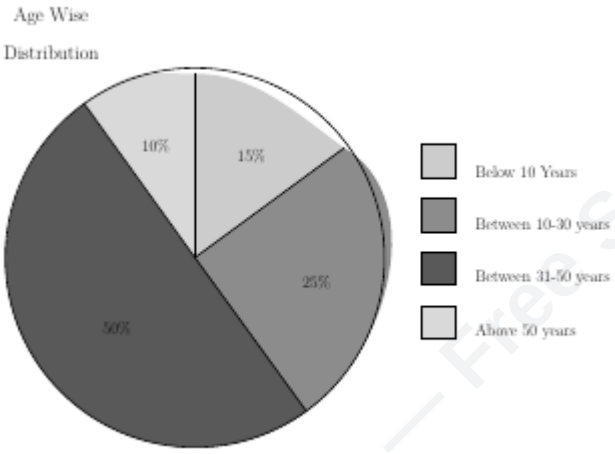
Q57. Study the given pie-charts and answer the question that follows.

The pie-charts show the characteristics of foreign tourists visiting India during a given year.

Country wise distribution



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If in a given year, 2,50,000 tourists visited India and the age wise distribution of data applies to all the countries, then what is the ratio of American tourists below 10 years to the other tourists above 50 years?

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

Q58. When 2^(256) is divided by 17, the remainder would be:

(a) 1
(b) 0
(c) 5
(d) 2

Q59. Two chords AB and CD of a circle are produced to intersect each other at a point P outside the circle. If AB = 7 cm, BP = 4.2 cm and PD = 2.8 cm, then the length of CD is:

(a) 14 cm
(b) 11 cm
(c) 16 cm
(d) 18 cm

Q60. A solid metallic cube having surface area of 54 cm^2 is melted to form smaller cubes of surface area 8/12 cm2 each. Find the number of smaller cubes.

(a) 729
(b) 343
(c) 216
(d) 512

Q61. ΔABC and ΔPQR are similar. The areas of these two triangles are 289 sq.cm and 576 sq.cm, respectively. If PR = 12 cm, then AC = ?

(a) 8.5 cm
(b) 12 cm
(c) 6 cm
(d) 7.25 cm

Q62. A bucket contains a mixture of milk and water in the proportion of 7: 5. If 9 litres of milk is replaced by water, then the ratio becomes 7:9. How much milk was there in the bucket initially?

(a) 30 litres
(b) 25 litres
(c) 36 litres
(d) 35 litres

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Q63. In an election between two candidates, 15% of the votes were invalid and one candidate got 52% of the total valid votes. If the total number of votes was 8000, what was the number of valid votes that the other candidate got?

(a) 3840
(b) 3264
(c) 6800
(d) 3536

Q64. The details of books of 6 subjects on the first floor of the college library are given in the following table.

	English	French	Computers	Circuit Theory	Maths	Graph Theory
No. of books	7532	308	14,308	9948	17,462	642

The ratio of Maths and Computers to Circuit Theory and Graph Theory is:

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

Q65. A costs thrice as much as B. A is sold at a loss of 10%, and B is sold at 5/4 of its own price. If the selling price of A is Rs. 5,800 more than the selling price of B, then the cost price of A is:

(a) Rs. 9,600
(b) Rs. 15,000
(c) Rs. 12,000
(d) Rs. 4,000

Q66. If the average weight of 40 apples is 33 kg and that of 32 apples is 60 kg, then the average weight (in kg) of all the apples is:

(a) 46.5
(b) 44
(c) 45.2
(d) 45

Q67. If '÷' means '×', '×' means '÷', '+' means '−', '−' means '+', then 47 ÷ (10 × 5) + (4 − 5) − 6 is:

(a) 100
(b) 59
(c) 91
(d) 79

Q68. For what value of k (k > 0) will the lines 5x + ky − 2 = 0 and (k + 1)x + 4y + 7 = 0 be parallel?

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

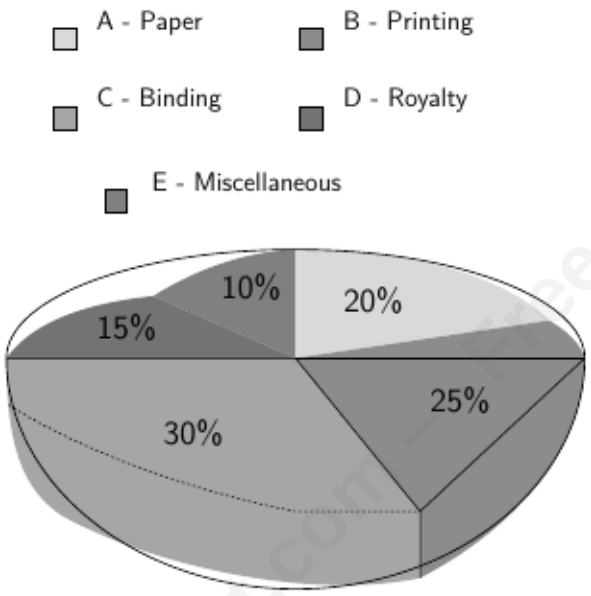
Q69. A man walking at the speed of 4 km/h covers a certain distance in 6 hours and 15 minutes. If he covers the same distance by cycle in 5 hours and 10 minutes, then the speed of the cycle in km/h is:

(a) 4 26/31
(b) 3 11/31
(c) 3 21/31
(d) 2 9/31

Q70. The given pie-diagram shows the expenditure incurred on the preparation of a book by a publisher, under various heads. Study the pie-diagram and answer the question that follows.

Various Expenditures (in percentage) incurred in Publishing a Book

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Which two expenditures together will form an angle of 108° at the centre of the pie-diagram?

(a) A and D
(b) A and E
(c) D and E
(d) B and E

Q71. A number is divisible by 11 if and only if the difference of the sum of the digits in the even and odd positions in the number is:

(a) 0 or multiple of 11
(b) 11
(c) 1
(d) 0

Q72. The following table gives the percentage of marks obtained by six students in five different subjects in an examination.

The numbers in the brackets give the maximum marks in each subject.

Student's Name	Subjects (Maximum marks)				
Maths (150)	English (130)	Hindi (120)	Physics (100)	Chemistry (60)	
Aanya	90	100	90	90	80
Aarav	100	80	90	70	70
Lavi	90	90	80	60	50
Monika	80	70	100	50	100
Devyansh	50	60	100	100	90
Tanmay	60	80	70	70	80

What are the average marks obtained by all the six students in Hindi?

(a) 106
(b) 172
(c) 610
(d) 127

Q73. If the surface areas of two spheres are in the ratio of 49 : 81, then find the ratio of their volumes.

(a) 216 : 512
(b) 125 : 512
(c) 27 : 64
(d) 343 : 729

Q74. In ΔABC, if AB = √3 units, BC = 1 unit and AC = 2 units, then angle ACB is equal to:

(a) 45°
(b) 30°
(c) 90°
(d) 60°

Q75. P completes a work in 12 days and Q in 24 days. In how many days P and Q working together can complete the same work?

(a) 16 days
(b) 8 days
(c) 6 days
(d) 12 days

GENERAL AWARENESS

Q76. The 10^(th) Five-Year Plan aimed at reducing poverty by:

(a) 5%
(b) 8%
(c) 9%
(d) 2%

Q77. Which of the following statements is correct?

(a) The size of Jupiter and Mars is similar.
(b) Mars is the warmest planet.
(c) The density of Saturn is similar to that of Earth.
(d) The size of Earth and Venus is almost similar.

Q78. On 12 February 2023, the President of India appointed the Governor of states. Which of the following is NOT correctly matched?

(a) S Abdul Nazeer - Bihar
(b) Ramesh Baish - Maharashtra
(c) Phagu Chauhan - Meghalaya
(d) Shiv Pratap Shukla - Himachal Pradesh

Q79. Where was the 36^(th) National Games of India held in the year 2022?

(a) Delhi
(b) Goa
(c) Gujarat
(d) Kerala

Q80. In 1835, who developed the process of applying a thin layer of metallic silver to one side of a clear glass pane and created the first mirror?

(a) Justus von Liebig
(b) CV Raman
(c) Victor Francis Hess
(d) CH Townes

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Q81. What is Miyan ki Todi in Hindustani music?

(a) Tanam
(b) Chhand
(c) Kirtan
(d) Raag

Q82. In MS Word, which option allows you to quickly remove all formatting from selected text while retaining the underlying text content?

(a) Cut
(b) Clear Formatting
(c) Paste Special
(d) Format Painter

Q83. Which of the following books was unveiled by the Union Minister Giriraj Singh in year 2022?

(a) Pandemic disruptions and Odisha's lessons in governance
(b) Agenda for Members of Panchayati Raj Institutions for Rural Development
(c) Modi @20 : Dreams meet delivery
(d) Heartfelt : The legacy of faith

Q84. In which of the following plants do roots arise from parts of a plant other than the radicle?

(a) Maize
(b) Monstera
(c) Mustard plant
(d) Turnip

Q85. The country's infrastructure vision for FY-2025 and the first exercise to be conducted in India is named as _____.

(a) National Infrastructure Projects
(b) National Infrastructure Planning
(c) National Infrastructure Pipeline
(d) National Infrastructure Plan

Q86. Which of the following is NOT mentioned in fundamental duties provided under Indian Constitution?

(a) To join Defence forces
(b) To safeguard public property
(c) To respect the national flag
(d) To develop scientific temper

Q87. In March 2023, the Government of India announced the set up of how many PM MITRA (Pradhan Mantri Mega Integrated Textile Region and Apparel) parks for the textile industry?

(a) 5
(b) 7
(c) 9
(d) 2

Q88. Which is the only surviving specimen of the ancient Sanskrit theatre recognised by UNESCO as a Masterpiece of the Oral and Intangible Heritage of Humanity?

(a) Kutiyattam
(b) Bhavai
(c) Yakshagana
(d) Kathakali

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Q89. In which of the following sports/games is the attacking player known as a 'raider'?

(a) Kabaddi
(b) Badminton
(c) Tennis
(d) Hockey

Q90. When is National Javelin Day celebrated in India?

(a) 6^(th) August
(b) 12^(th) January
(c) 7^(th) August
(d) 29^(th) August

Q91. The Salal Project, also called the Salal Hydroelectric Power Station, is on which river?

(a) Ravi
(b) Ganga
(c) Chenab
(d) Krishna

Q92. Suppose a mine worker asks his son, aged 9 years, to help him in his work instead of going to school. Which Article of the Constitution of India will be violated in this case?

(a) Article 24
(b) Article 20
(c) Article 18
(d) Article 29

Q93. International Kite Festival is a popular cultural festival of which state?

(a) Chhattisgarh
(b) Goa
(c) Gujarat
(d) Manipur

Q94. Where is the Kailasa temple built by Rashtrakutas located?

(a) Ellora
(b) Hampi
(c) Kanchi
(d) Amravati

Q95. Kalbelia dance, also known as the 'Sapera Dance', is the folk dance of _____.

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

Q96. Folk music sung on the birth of a child in some Indian states like Bihar, Uttar Pradesh, etc. is called _____.

(a) gari
(b) banna
(c) sohar
(d) kohbar

Q97. Which of the following statements accurately describes application software?

(a) Application software is designed to perform specific tasks or functions to meet the user’s needs.
(b) Application software is used only by software developers and does not impact regular users.
(c) Application software is responsible for managing and controlling computer hardware components.
(d) Application software refers to the operating system that provides a user-friendly interface to interact with the computer.

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Q98. The velocity of circulation of money will be higher when the _____ is less than the requirements of the economy.

(a) velocity of money
(b) supply of money
(c) demand for money
(d) elasticity of money

Q99. 'The Life Divine', 'The Synthesis of Yoga' and 'Savitri' are the popular works of which of the following extremist freedom fighters of India?

(a) Lala Lajpat Rai
(b) Bal Gangadhar Tilak
(c) Bipin Chandra Pal
(d) Aurobindo Ghosh

Q100. What is the literacy rate of males in India as per the report published in the National Survey of India-2022?

(a) 83.4%
(b) 81.2%
(c) 84.7%
(d) 86.3%

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) William Wordsworth was a romantic poet. He did things in an unusual manner.

The correct answer is Option 1.

Key Points

• The primary issue in the sentence is the incorrect use of the article "a" before the term "romantic poet."

• When referring to a singular countable noun, the appropriate article must be used. "Romantic poet" correctly requires the article "a" before it.

• Additionally, in the phrase "in an unusual manner", the article "an" is correctly used before the word "unusual".

• Thus, Option 1 is the correct choice as it uses the articles appropriately.

Therefore, the correct answer is Option 1.

Correct Sentence: "William Wordsworth was a romantic poet. He did things in an unusual manner."

Additional Information

• Option 2: "William Wordsworth was romantic poet. He did things in an unusual manner." – This option is incorrect because it omits the article "a" before "romantic poet".

• Option 3: "William Wordsworth was the romantic poet. He did things in a unusual manner." – This option is incorrect because it uses the wrong article "the" before "romantic poet" and "a" should be "an" before "unusual".

• Option 4: "William Wordsworth was a romantic poet. He did things in a unusual manner." – This option is incorrect because it uses the article "a" instead of "an" before "unusual".

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Q2. Answer: (a) was first to reach

The correct answer is Option 1.

Key Points

• The primary issue in the sentence is the incorrect use of the phrase "was first to reach."

• A more grammatically correct way to express this would be "was the first to reach."

• The inclusion of the definite article "the" is necessary for clarity and correctness.

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

Therefore, the correct answer is Option 1.

Correct Sentence: "The manager noticed that Pragya was the first to reach the office on Saturday."

Additional Information

• Part 2: "the office on Saturday." – This part of the sentence is grammatically correct and does not require any changes.

• Part 3: "that Pragya" – This part of the sentence is grammatically correct and does not require any changes.

• Part 4: "The manager noticed" – This part of the sentence is grammatically correct and does not require any changes.

Q3. Answer: (d) gave out prizes

The correct answer is Option 4.

Key Points

• The primary issue in the sentence is the phrase "gave out prizes."

• The correct phrase should be "gave away prizes," which is more commonly used and accepted in standard English.

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

Therefore, the correct answer is Option 4.

Correct Sentence: "The chief guest gave away prizes to the meritorious students of the school."

Additional Information

• 1) "of the school." – This part of the sentence is grammatically correct and does not require any changes.

• 2) "The chief guest" – This part of the sentence is grammatically correct and does not require any changes.

• 3) "to the meritorious students" – This part of the sentence is grammatically correct and does not require any changes.

Q4. Answer: (d) Mathematics help

The correct answer is Option 4.

Key Points

• The primary issue in the sentence is the incorrect subject-verb agreement.

• The word "Mathematics" is a singular noun, and therefore, it should be followed by a singular verb.

• The correct verb should be "helps" instead of "help."

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

Therefore, the correct answer is Option 4.

Correct Sentence: "Mathematics helps in developing the logical mindset of students."

Additional Information

• A: "Mathematics help" – This part of the sentence contains the error of subject-verb agreement and should be corrected to "Mathematics helps".

• B: "in developing" – This part of the sentence is grammatically correct and does not require any changes.

• C: "the logical mindset" – This part of the sentence is grammatically correct and does not require any changes.

• D: "of students" – This part of the sentence is grammatically correct and does not require any changes.

Q5. Answer: (b) essential

The solution is in Hindi. Read it online.

Q6. Answer: (a) prevent

The solution is in Hindi. Read it online.

Q7. Answer: (b) diseases

The solution is in Hindi. Read it online.

Q8. Answer: (d) reportedly

The solution is in Hindi. Read it online.

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Q9. Answer: (d) access

The solution is in Hindi. Read it online.

Q10. Answer: (a) division

The solution is in Hindi. Read it online.

Q11. Answer: (a) Strong

The solution is in Hindi. Read it online.

Q12. Answer: (a) No substitution required

The correct answer is Option 1.

Key Points

• The sentence "It has been found that the trees are being destroyed by a moth." is grammatically correct as it stands.

• It correctly uses the present perfect continuous tense to indicate an action that started in the past and is still continuing.

• No substitutions are needed for the given sentence to be grammatically correct and clear.

Therefore, the correct answer is Option 1: No substitution required.

Additional Information

• Option 2: "have destroyed" – This changes the tense and meaning of the sentence, suggesting the destruction is already complete.

• Option 3: "have been destroying" – This implies the trees have been continuously destroyed up to now, but it is not as precise as the original sentence.

• Option 4: "is being destroyed" – This changes the subject-verb agreement, making the sentence incorrect.

• No substitution required – This is the correct option as the original sentence is already correct.

Q13. Answer: (a) Equivocal

The solution is in Hindi. Read it online.

Q14. Answer: (c) influx

The solution is in Hindi. Read it online.

Q15. Answer: (c) Cautious

The solution is in Hindi. Read it online.

Q16. Answer: (a) I would have gone

The correct answer is Option 1.

Key Points

• The primary issue in the sentence is the incorrect verb tense used in the second clause.

• In conditional sentences of this type (third conditional), the correct structure is "would have" followed by the past participle of the verb.

• The correct phrase should be "I would have gone," ensuring grammatical correctness and clarity.

Therefore, the correct answer is Option 1.

Correct Sentence: "Had you been to Dubai, I would have gone with you."

Additional Information

• Option 2: "I would has also gone" – This option is incorrect as "would has" is not a valid construction; it should be "would have".

• Option 3: "I will have went" – This option is incorrect as "will have went" is not grammatically correct; it should be "would have gone".

• Option 4: "I shall be gone" – This option is incorrect as it does not fit the context of the sentence.

Q17. Answer: (b) that enable the hair to grow

The correct answer is Option 2.

Key Points

• The original sentence is: "This serum contains ingredients enabling the hair to grow."

• The primary issue in the sentence is that "enabling the hair to grow" is not as clear and concise as it could be.

• Option 2, "that enable the hair to grow," provides a clearer and more grammatically correct structure.

• Thus, the error is in the segment that needs substitution.

Therefore, the correct answer is Option 2.

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Correct Sentence: "This serum contains ingredients that enable the hair to grow."

Additional Information

• Option 1: "for growing many hair" – This option is grammatically incorrect as "many hair" is not a proper phrase.

• Option 3: "the enable grow hair" – This option is grammatically incorrect as the structure is awkward and incorrect.

• Option 4: "for growth hair" – This option is grammatically incorrect as the phrase "growth hair" is not a proper construction.

Q18. Answer: (c) get a job

The correct answer is Option 3.

Key Points

• The phrase "get a job" is the most commonly used and contextually appropriate in this sentence.

• The other options are either grammatically incorrect or do not fit the context as naturally as "get a job."

• "Experience a job" and "learn a job" are not commonly used phrases.

• "Receive a job" is less common and does not fit as naturally as "get a job."

Therefore, the correct answer is Option 3.

Correct Sentence: "Tom is trying to get a job as soon as possible."

Additional Information

• Option 1: "experience a job" – This phrase is not commonly used and does not fit naturally in the context.

• Option 2: "receive a job" – This phrase is less common and somewhat awkward in this context.

• Option 4: "learn a job" – This phrase is not typically used to describe the process of obtaining employment.

Q19. Answer: (d) end

The solution is in Hindi. Read it online.

Q20. Answer: (c) Very costly and luxurious

The solution is in Hindi. Read it online.

Q21. Answer: (c) collectable

The solution is in Hindi. Read it online.

Q22. Answer: (d) Are known for their amazing bronze castings

The correct answer is Option 4.

Key Points

• The phrase “are know for” is incorrect and should be replaced with “are known for”.

• Using “their” makes the sentence more specific to the artists of Telangana.

• The correct phrase should be “are known for their amazing bronze castings,” ensuring grammatical correctness and clarity.

Therefore, the correct answer is Option 4.

Correct Sentence: "Telangana artists are known for their amazing bronze castings."

Additional Information

• Option 1: “Is known to the amazing bronze castings” – Incorrect due to subject-verb agreement and inappropriate preposition usage.

• Option 2: “Have to know the amazing bronze castings” – Incorrect as it changes the meaning entirely.

• Option 3: “Have been knew to the amazing bronze castings” – Incorrect due to improper verb form usage.

Q23. Answer: (c) Tiny

The solution is in Hindi. Read it online.

Q24. Answer: (a) To experience a bad period in life

The solution is in Hindi. Read it online.

Q25. Answer: (a) Neice

The solution is in Hindi. Read it online.

Q26. Answer: (a) 222

Given : 24 ÷ 10 + 68 × 2 - 16 = ?

According to the question, after '+' and '-' are interchanged and '×' and '÷' are interchanged:

24 ÷ 10 + 68 × 2 - 16 = ? => 24 × 10 - 68 ÷ 2 + 16 = ?

=> 24 × 10 - 68 ÷ 2 + 16 = ?

=> 24 × 10 - 34 + 16 = ?

=> 240 + 16 - 34 = ?

=> 256 - 34 = ?

=> 222 = ?

Hence, "Option 1" is the correct answer.

Q27. Answer: (d) Thursday

Given: 27 September 2001 was Thursday.

Now,

2001 to 2009 = 8 Years (6 Ordinary Years and 2 Leap Years).

And, In 8 Years = 2 Leap years and 6 Ordinary Years.

So, 2 Leap Years have 4 odd days,

And, 6 Ordinary Years have 6 odd days.

Total odd days = 4 + 6 = 10.

10 odd days → 10/7 = 1 week and 3 odd days.

then, 27 September 2009 will be Thursday + 3 = Sunday.

Now, the number of days between 27 September 2009 to 22 October 2009

= 3 (September) + 22 (October) = 25 days.

= 25 days → 25/7 = 3 weeks and 4 odd days.

So, 22 October 2009 will be Sunday + 4 = Thursday.

Hence, the correct answer is "Option 4".

Q28. Answer: (a) Neither conclusion (I) nor (II) follows.

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

Conclusions:

I. All grains are trees → Does not follow (As some leaves are trees and some grains are leaves. So it is possible but not definite.)

II. Some leaves are stones → Does not follow (As all stones are grain and some grains are leaves. So it is possible but not definite.)

Therefore Here, Neither conclusion (I) nor (II) follows.

Hence, the correct answer is "Option 1"

Q29. Answer: (d) [figure]

The logic followed here is:

1) First box series → Elements shift upward clockwise and the top right corner element is replaced by new element.

2) Second box series → Top three element shift clockwise and bottom three elements shift anticlockwise.

Thus, the final series is:

Hence, "Option 4" is the correct answer.

Q30. Answer: (a) 10

The number of rectangle in the given figure are shown below:

Thus, as marked there are a total of 10 rectangles.

Hence, "Option 1" is the correct answer.

Q31. Answer: (a) Father's father

Decoding symbols:

M is			
Symbol	&	@	$
Meaning	Wife	Son	Mother
to N			

Given: N $ O @ P @ Q & R

N $ O → N is the mother of O.

O @ P → O is the son of P.
P @ Q → P is the son of Q.
Q & R → Q is the wife of R.
Thus, R is O's parental grandfather or father's father.
Hence, the correct answer is "Option 1".

Q32. Answer: (d) [figure]

The figure which will look like the paper when unfolded is shown below:
Thus, option Figure 4 will look like the paper when unfolded.
Hence, "Option 4" is the correct answer.

Q33. Answer: (d) 24

Given : 123 - 41 × 14 + 2 ÷ 7 = ?
According to the question, after '+' and '×' are interchanged and '-' and '÷' are interchanged:
123 - 41 × 14 + 2 ÷ 7 = ? => 123 ÷ 41 + 14 × 2 - 7 = ?
=> 123 ÷ 41 + 14 × 2 - 7 = ?
=> 3 + 14 × 2 - 7 = ?
=> 3 + 28 - 7 = ?
=> 31 - 7 = ?
=> 24 = ?
Hence, "Option 4" is the correct answer.

Q34. Answer: (d) 35 and 45

Given : 35 + (25 × 3 − 45) ÷ 2 + (15 × 4) = 125
According to the question, after interchanging the numbers :
Option 1) 25 and 35
35 + (25 × 3 − 45) ÷ 2 + (15 × 4) = 125 => 25 + (35 × 3 − 45) ÷ 2 + (15 × 4) = 125
=> 25 + (35 × 3 − 45) ÷ 2 + (15 × 4) = 125
=> 25 + (105 − 45) ÷ 2 + 60 = 125
=> 25 + 26.25 ÷ 2 + 60 = 125
=> 25 + 13.125 + 60 = 125
=> 98.125 ≠ 125 (LHS ≠ RHS)
Option 2) 15 and 25
35 + (25 × 3 − 45) ÷ 2 + (15 × 4) = 125 => 35 + (15 × 3 − 45) ÷ 2 + (25 × 4) = 125
=> 35 + (15 × 3 − 45) ÷ 2 + (25 × 4) = 125
=> 35 + (45 − 45) ÷ 2 + 100 = 125
=> 35 + 0 ÷ 2 + 100 = 125
=> 35 + 0 + 100 = 125
=>135 ≠ 125 (LHS ≠ RHS)
Option 3) 2 and 15
35 + (25 × 3 − 45) ÷ 2 + (15 × 4) = 125 => 35 + (25 × 3 − 45) ÷ 15 + (2 × 4) = 125
=> 35 + (25 × 3 − 45) ÷ 15 + (2 × 4) = 125
=> 35 + (75 − 45) ÷ 15 + 8 = 125
=> 35 + 30 ÷ 15 + 8 = 125
=> 35 + 2 + 60 = 125
=> 97 ≠ 125 (LHS ≠ RHS)
Option 4) 35 and 45
35 + (25 × 3 − 45) ÷ 2 + (15 × 4) = 125 => 45 + (25 × 3 − 35) ÷ 2 + (15 × 4) = 125
=> 45 + (25 × 3 − 35) ÷ 2 + (15 × 4) = 125
=> 45 + (75 − 35) ÷ 2 + 60 = 125
=> 45 + 40 ÷ 2 + 60 = 125
=> 45 + 20 + 60 = 125
=> 125 = 125 (LHS = RHS)

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Hence, "Option 4" is the correct answer.

Q35. Answer: (d) 36

The logic followed here is:

Hence, "Option 4" is the correct answer.

Alternate Method

Q36. Answer: (c) PWV

The logic followed here is:

Hence, "Option 3" is the correct answer.

Q37. Answer: (b) Wednesday

Given: 17 December 2012 was Monday.

Now,

2012 to 2020 = 8 Years (6 Ordinary Years and 2 Leap Years).

And, In 8 Years = 2 Leap Years and 6 Ordinary Years.

So, 2 Leap Years have 4 odd days,

And, 6 Ordinary Years have 6 odd days.

Total odd days = 4 + 6 = 10.

10 odd days → 10/7 = 1 week and 3 odd days.

then, 17 December 2020 will be Monday + 3 = Thursday.

Now, the number of days between 18 November 2020 to 17 December 2020

= 12 + 17 = 29 days.

= 29 days → 29/7 = 4 weeks and 1 odd days.

The dates are in past, so subtract 1 days from the day on 17 December 2020 which is Thursday

So, 18 November 2020 will be Thursday - 1 = Wednesday.

Hence, the correct answer is "Option 2".

Q38. 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".

Q39. Answer: (d) [figure]

The correct mirror image of the given figure is:

Hence, the correct answer is "Option 4".

Q40. Answer: (c) RSXYZ

The logic followed here is:

Option 1) IJQRS

Option 2) FGNOP

Option 3) RSXYZ

Option 4) OPWXY

Thus, out of all the options "RSXYZ" is the odd one out.

Hence, "Option 3" is the correct answer.

Q41. 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".

Q42. Answer: (a) 47

Given : 92 × 2 - 13 + 2 ÷ 6 = ?

According to the question, after '+' and '-' are interchanged and '×' and '÷' are interchanged:

92 × 2 - 13 + 2 ÷ 6 = ? => 92 ÷ 2 + 13 - 2 × 6 = ?

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=> 92 ÷ 2 + 13 - 2 × 6 = ?
=> 46 + 13 - 2 × 6 = ?
=> 46 + 13 - 12 = ?
=> 59 - 12 = ?
=> 47 = ?
Hence, "Option 1" is the correct answer.

Q43. Answer: (b) QBDL

The logic followed here is:
'RIVER' is coded as 'SJWFS'
And,
'SYSTEM' is coded as 'TZTUFN'
Similarly,
'PACK' is coded as
Hence, "Option 2" is the correct answer.

Q44. Answer: (b) (23, 26, 147)

The logic followed here is:
Logic: (1st number + 2nd number) × 3 = 3rd number.
Now,
For, (32, 35, 201)
=> (32 + 35) × 3 = 67 × 3 = 201.
For, (26, 29, 165)
=> (26 + 29) × 3 = 55 × 3 = 165.
Similarly, for (23, 26, 147)
=> (23 + 26) × 3 = 49 × 3 = 147.
Hence, the correct answer is "Option 2".

Q45. Answer: (b) db

According to the given information,
Thus, according to the given codes 'db' is the code for the word 'something'.
Hence, the correct answer is "Option 2".

Q46. Answer: (b) cruel : kind

The solution is in Hindi. Read it online.

Q47. Answer: (b) 79

The logic followed here is:
Logic: 1st number ÷ 3 = 2nd number.
Now,
For, 102 : 34
=> 102 ÷ 3 = 34.
For, 171 : 57
=> 171 ÷ 3 = 57.
Similarly, for 237 : ?
=> 237 ÷ 3 = 79.
Hence, the correct answer is "Option 2".

Q48. Answer: (a) NHLV

The logic followed here is:
QTWA is related to ZCFJ
And,
MKBZ is related to VTKI
Similarly,

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EYCM is related to

Hence, "Option 1" is the correct answer.

Q49. Answer: (d) ZCF

The logic followed here is:

Hence, "Option 4" is the correct answer.

Q50. Answer: (a) 9

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:

5 → 8

10 → 6

7 → 9

Therefore, '9' is the opposite of '7'.

Hence, "Option 1" is the correct answer.

Q51. Answer: (c) Rs. 1,500

Given:

Principal (P) at 8% = Amount (A) - Interest (SI)

Amount (A) = Rs. 820

Time (t) = 8 years

Rate (r) = 8%

Formula used:

Simple Interest (SI) = P × r × t / 100

Amount (A) = P + SI

Calculations:

820 = P + (P × 8 × 8 / 100)

=> 820 = P + (64P / 100)

=> 820 = P (1 + 0.64)

=> 820 = P × 1.64

=> P = 820 / 1.64

=> P = Rs. 500

Now, for 20% interest for 10 years:

Rate (r) = 20%

Time (t) = 10 years

Simple Interest (SI) = P × r × t / 100

=> SI = 500 × 20 × 10 / 100

=> SI = Rs. 1000

Amount (A) = P + SI

=> A = 500 + 1000

=> A = Rs. 1500

Therefore The correct answer is option (3).

Q52. Answer: (d) 60%

Given:

Let the third number be 100.

The first number is 61% less than the third number, so the first number = 100 - 61 = 39.

The second number is 35% less than the third number, so the second number = 100 - 35 = 65.

Formula used:

Percentage of the first number relative to the second number = (First number / Second number) × 100

Calculation:

=> Percentage = (39 / 65) × 100

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=> Percentage ≈ 60%

Therefore The first number is 60% of the second number.

Q53. Answer: (b) 12°

Given:

In an isosceles triangle, the vertex angle is four times the sum of the base angles.

Formula used:

Let the base angle be x.

Vertex angle = 4(2x) (since the sum of base angles is 2x)

Sum of angles in a triangle = 180º

Calculation:

2x + 4(2x) = 180º

=> 2x + 8x = 180º

=> 10x = 180º

=> x = 18º

Vertex angle = 4(2x) = 4(36º) = 144º

Square root of the vertex angle = √144º = 12º

Therefore The correct answer is option (2).

Q54. Answer: (b) 7.0 cm

Given:

The surface area of the sphere is 616 cm²

Formula used:

Surface Area of Sphere, S = 4πr²

Calculation:

4πr² = 616

=> 616/4π

=> 616/(4 × 3.14)

=> 616/12.56

=> r² = 49

=> r = √49

=> r = 7.0 cm

Therefore The correct answer is option 2.

Q55. Answer: (c) 7/5

Shortcut Trick

Given 3 tan θ = 4 => tan θ = 4/3.

Divide the numerator and denominator by cos θ to convert the expression into tan θ.

Expression = (9 tan θ + 2) / (9 tan θ − 2)

Substitute tan θ = 4/3 => (9 × 4/3 + 2) / (9 × 4/3 − 2) = (12 + 2) / (12 − 2) = 14 / 10 = 7/5.

Therefore The correct answer is 7/5.

Alternate Method

Given: 3 tan θ = 4

Formula Used: tan θ = Perpendicular / Base; sin θ = P/H; cos θ = B/H

=> tan θ = 4/3

=> Let Perpendicular (P) = 4, Base (B) = 3

=> Hypotenuse (H) = √(P² + B²) = √(4² + 3²) = √25 = 5

=> sin θ = 4/5 and cos θ = 3/5

=> (9 × 4/5 + 2 × 3/5) / (9 × 4/5 − 2 × 3/5)

=> (36/5 + 6/5) / (36/5 − 6/5) = (42/5) / (30/5)

=> 42 / 30 = 7/5

Therefore The correct answer is 7/5.

Additional Information

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Trigonometric Ratios

Fundamental ratios are sin θ = P/H, cos θ = B/H, and tan θ = P/B.

Pythagorean Triplets

Sets of three positive integers (a, b, c) such that $a^2 + b^2 = c^2$. Common triplets include (3, 4, 5) and (5, 12, 13).

Ratio Transformation

An expression involving sin θ and cos θ of the same degree can be simplified by dividing by cos θ or sin θ to convert it into tan θ or cot θ.

Q56. Answer: (d) 10800

Given:

In an election between two candidates, Ananth and Aravind, Ananth got 55% of the total valid votes, and 20% of the votes were invalid. If the total number of votes was 30,000, find the number of valid votes that Aravind got.

Formula used:

Total Valid Votes = Total Votes × (1 - Invalid Vote Percentage)

Aravind's Votes = Total Valid Votes - Ananth's Votes

Calculation:

Total Votes = 30,000

Invalid Votes Percentage = 20%

Ananth's Vote Percentage = 55%

Total Valid Votes = 30,000 × (1 - 0.20)

=> Total Valid Votes = 30,000 × 0.80

=> Total Valid Votes = 24,000

Ananth's Votes = 24,000 × 0.55

=> Ananth's Votes = 13,200

Aravind's Votes = Total Valid Votes - Ananth's Votes

=> Aravind's Votes = 24,000 - 13,200

=> Aravind's Votes = 10,800

Therefore The correct answer is option 4.

Q57. Answer: (d) 3 : 1

Given:

Total number of tourists = 2,50,000

Country-wise distribution:

• American = 40%

• British = 25%

• Russian = 15%

• Others = 20%

Age-wise distribution:

• Below 10 years = 15%

• Between 10-30 years = 25%

• Between 31-50 years = 50%

• Above 50 years = 10%

Step 1: Find the number of American tourists below 10 years.

American tourists = 40% of 2,50,000 = (40/100) × 2,50,000 = 1,00,000

American tourists below 10 years = 15% of 1,00,000 = (15/100) × 1,00,000 = 15,000

Step 2: Find the number of other tourists above 50 years.

Other tourists = 20% of 2,50,000 = (20/100) × 2,50,000 = 50,000

Other tourists above 50 years = 10% of 50,000 = (10/100) × 50,000 = 5,000

Step 3: Find the required ratio.

Ratio = American tourists below 10 years : Other tourists above 50 years

=> Ratio = 15,000 : 5,000

=> Ratio = 3 : 1

Therefore The ratio of American tourists below 10 years to other tourists above 50 years is 3:1.

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Q58. Answer: (a) 1

Given:

When 2256 is divided by 17, the remainder would be:

Formula used:

Using Fermat's Little Theorem: a^(p-1) ≡ 1 (mod p) for a prime p and integer a

Calculation:

2256 ≡ 2^(256) (mod 17)

By Fermat's Little Theorem:

2^(16) ≡ 1 (mod 17)

=> 2^(256) = (2^(16))^(16)

=> 2^(256) ≡ 1^(16) (mod 17)

=> 2^(256) ≡ 1 (mod 17)

Therefore The correct answer is option 1.

Q59. Answer: (a) 14 cm

Given

PB = 4.2 cm and AB = 7 cm

AP = 4.2 + 7 = 11.2

PD = 2.8 cm and Let CD = x.

PC = 2.8 + x

As we know,

AP × PB = PC × PD

11.2 × 4.2 = (x + 2.8) × 2.8

=> x + 2.8 = (11.2 × 4.2) / 2.8

=> x + 2.8 = 16.8

=> x = 16.8 – 2.8

=> x = 14 cm

Q60. Answer: (a) 729

Given:

A solid metallic cube having surface area of 54 cm^2 is melted to form smaller cubes of surface area (8)/(12) cm^2 each.

Formula used:

Surface area of a cube = $6a^2$ (where 'a' is the side length)

Calculation:

Let 'A' be the side length of the large cube.

$6A^2 = 54$

=> $A^2 = 9$

=> A = 3 cm

Volume of the large cube = $A^3 = 3^3 = 27$ cm^3

Let 'a' be the side length of the smaller cubes.

Surface area of each smaller cube = $6a^2$ = (8)/(12) cm^2

=> a^2 = (8)/(12) / 6 = (8)/(72)

=> a^2 = (1)/(9)

=> a = 1/3 cm

Volume of each smaller cube = $a^3 = (1/3)^3 = 1/27$ cm^3

Number of smaller cubes = Volume of large cube / Volume of one smaller cube

=> 27 / (1/27)

=> 27 × 27

=> 729

Therefore The correct answer is option 1.

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Q61. Answer: (a) 8.5 cm

Given:

ΔABC and ΔPQR are similar.

Area of ΔABC = 289 sq.cm

Area of ΔPQR = 576 sq.cm

PR = 12 cm

Formula used:

If two triangles are similar, the ratio of their areas is equal to the square of the ratio of their corresponding sides.

Calculation:

Let AC be the corresponding side of PR in ΔABC.

(Area of ΔABC)/(Area of ΔPQR) = $(AC/PR)^2$

$289/576 = (AC/12)^2$

$=> (AC/12)^2 = 289/576$

$=> AC = 12 \times \sqrt{(289/576)}$

$=> AC = 12 \times 17/24$

$=> AC = 8.5$

Therefore The correct answer is option 1.

Q62. Answer: (c) 36 litres

Shortcut Trick

Initial Ratio (Milk : Water) = 7 : 5

Final Ratio (Milk : Water) = 7 : 9

Since Milk remains constant (7 units), the change in Water is 9 − 5 = 4 units.

4 units → 9 litres => 1 unit = 2.25 litres.

Initial Milk = 7 units = 7 × 2.25 = 15.75 litres.

Correction based on replacement logic: If 9 litres of mixture was replaced, but here 9 litres of milk is replaced by water, total volume remains same.

Initial Milk = 7x, after removing 9L milk and adding 9L water: (7x − 9) / (5x + 9) = 7/9 => 63x − 81 = 35x + 63 => 28x = 144 => x = 36/7. Initial Milk = 7 × (36/7) = 36 litres.

Therefore The correct answer is 36 litres.

Alternate Method

Given: Initial Ratio = 7 : 5 | Final Ratio = 7 : 9 | 9 litres Milk replaced by Water.

Calculations:

=> Let the initial quantity of Milk be 7x and Water be 5x.

=> According to the question, 9 litres of Milk is replaced by 9 litres of Water.

=> New quantity of Milk = 7x − 9

=> New quantity of Water = 5x + 9

=> New Ratio = (7x − 9) / (5x + 9) = 7 / 9

=> 9 × (7x − 9) = 7 × (5x + 9)

=> 63x − 81 = 35x + 63

=> 63x − 35x = 63 + 81

=> 28x = 144

=> x = 144 / 28 = 36 / 7

=> Initial Milk = 7x = 7 × (36 / 7) = 36 litres.

Therefore The correct answer is 36 litres.

Additional Information

Ratio and Proportion

If a : b = c : d, then product of extremes equals product of means (a × d = b × c).

Mixture Replacement Rule

When a specific quantity of one component is replaced by another, the total volume of the mixture remains constant.

Alligation Cross Method

Used to find the ratio in which two ingredients are mixed to produce a mixture of a desired price or concentration.

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Q63. Answer: (b) 3264

Given:

Total votes = 8000

Invalid votes = 15% of total votes

Valid votes for one candidate = 52% of total valid votes

Formula used:

Valid votes = Total votes × (100% - Invalid votes%)

Votes for the other candidate = Total valid votes × (100% - Votes for one candidate%)

Calculation:

Invalid votes = 15% of 8000

=> Invalid votes = 0.15 × 8000

=> Invalid votes = 1200

Total valid votes = 8000 - 1200

=> Total valid votes = 6800

Votes for one candidate = 52% of 6800

=> Votes for one candidate = 0.52 × 6800

=> Votes for one candidate = 3536

Votes for the other candidate = 6800 - 3536

=> Votes for the other candidate = 3264

Therefore The correct answer is option 2.

Q64. Answer: (c) 3 : 1

Given:

Maths books = 17,462

Computers books = 14,308

Circuit Theory books = 9,948

Graph Theory books = 642

Formula used:

Ratio = (Maths + Computers) / (Circuit Theory + Graph Theory)

Calculation:

Ratio = (17,462 + 14,308) / (9,948 + 642)

=> Ratio = 31,770 / 10,590

=> Ratio = 3:1

Therefore The ratio of Maths and Computers to Circuit Theory and Graph Theory is 3:1.

Q65. Answer: (c) Rs. 12,000

Given:

A costs thrice as much as B. A is sold at a loss of 10%, and B is sold at (5/4) of its own price. If the selling price of A is Rs. 5,800 more than the selling price of B, then the cost price of A is:

Formula used:

Selling Price (SP) = Cost Price (CP) - Loss

Selling Price (SP) = Cost Price (CP) × Profit Factor

Calculation:

Let the cost price of B be Rs. x.

Then, the cost price of A = 3x.

Selling price of A = 3x - 0.1 × 3x = 3x - 0.3x = 2.7x

Selling price of B = 5/4 × x = 1.25x

Given: Selling price of A is Rs. 5,800 more than the selling price of B.

=> 2.7x - 1.25x = 5800

=> 1.45x = 5800

=> x = 5800 / 1.45

=> x = 4000

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Cost price of A = 3x = 3 × 4000 = 12000

Therefore The correct answer is option (3).

Q66. Answer: (d) 45

Given:

The average weight of 40 apples = 33 kg

The average weight of 32 apples = 60 kg

Formula used:

Average weight =Total weight of all apples / Total number of apples

Calculations:

Total weight of 40 apples = 40 × 33 = 1320 kg

Total weight of 32 apples = 32 × 60 = 1920 kg

Total weight of all apples = 1320 + 1920 = 3240 kg

Total number of apples = 40 + 32 = 72

=> Average weight = 3240 / 72

=> Average weight = 45 kg

Therefore The correct answer is option 4.

Q67. Answer: (c) 91

Given:

If '÷' means '×', '×' means '÷', '+' means '-', '-' means '+', then 47 ÷ (10 × 5) + (4 - 5) - 6 is:

Formula used:

Replace the symbols according to the given conditions.

Calculation:

Given expression: 47 ÷ (10 × 5) + (4 - 5) - 6 becomes,

=> 47 × (10 ÷ 5) - (4 + 5) + 6

=> 47 × 2 - 9+ 6

=> 94 - 3

=> 91

Therefore, the correct answer is option (3).

Q68. Answer: (a) 4

Given:

For what value of k (k > 0) will the lines 5x + ky - 2 = 0 and (k + 1)x + 4y + 7 = 0 be parallel?

Formula used:

Two lines are parallel if their slopes are equal.

For the line ax + by + c = 0, the slope (m) is given by -a/b

Calculation:

For the line 5x + ky - 2 = 0, slope (m1)= -5/k

For the line (k + 1)x + 4y + 7 = 0, slope (m2)= -(k+1)/4

Since the lines are parallel, (m1 = m2)

=> -5/k= -(k+1)/4

=> 5/k= (k+1)/4

=> 5 × 4 = k × (k + 1)

=> 20 = k^2 + k

=> k^2 + k - 20 = 0

Solving the quadratic equation:

=> (k + 5)(k - 4) = 0

=> k = -5 or k = 4

Since k > 0, k = 4

Therefore The correct answer is option (1).

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Q69. Answer: (a) 4 26/31

Given:

A man walking at the speed of 4 km/h covers a certain distance in 6 hours and 15 minutes. If he covers the same distance by cycle in 5 hours and 10 minutes, then the speed of the cycle in km/h is:

Formula used:

Speed = Distance / Time

Calculation:

Walking speed = 4 km/h

Walking time = 6 hours 15 minutes = 6 + 15/60 hours = 6.25 hours

=> Distance = Speed × Time

=> Distance = 4 km/h × 6.25 hours = 25 km

Cycling time = 5 hours 10 minutes = 5 + 10/60 hours = 5.1667 hours

=> Speed of the cycle = Distance / Time

=> Speed of the cycle = 25 km / 5.1667 hours ≈ 4.84 km/h

=> Speed of the cycle in fraction form = 4 (26/31) km/h

Therefore The correct answer is option 1.

Q70. Answer: (b) A and E

Given:

The pie-chart shows various expenditures in percentages: Paper (20%), Printing (25%), Binding (30%), Royalty (15%), Miscellaneous (10%).

Formula used:

Angle corresponding to a percentage = (Percentage / 100) × 360°

Calculation:

Paper (20%): Angle = (20 / 100) × 360° = 72°

Miscellaneous (10%): Angle = (10 / 100) × 360° = 36°

Total angle for Paper and Miscellaneous = 72° + 36° = 108°

Therefore The two expenditures that form an angle of 108° are Paper and Miscellaneous or option (2).

Q71. Answer: (a) 0 or multiple of 11

Shortcut Trick

The standard divisibility rule for 11 states that a number is completely divisible by 11 if the difference between the sum of its digits at odd positions and the sum of its digits at even positions is either 0 or a multiple of 11.

Therefore The correct answer is 0 or multiple of 11.

Alternate Method

Concept & Application:

To check if a number is divisible by 11, we follow these steps:

=> Step 1: Find the sum of the digits at odd positions (1st, 3rd, 5th, etc. from right or left).

=> Step 2: Find the sum of the digits at even positions (2nd, 4th, 6th, etc.).

=> Step 3: Find the difference between these two sums.

=> Step 4: If the difference is 0, 11, 22, 33, or any multiple of 11, the entire number is divisible by 11.

Example 1: Consider the number 1331.

=> Sum of digits at odd positions = 1 + 3 = 4

=> Sum of digits at even positions = 3 + 1 = 4

=> Difference = 4 − 4 = 0

=> Since the difference is 0, the number 1331 is perfectly divisible by 11.

Example 2: Consider the number 918082.

=> Sum of digits at odd positions = 9 + 8 + 8 = 25

=> Sum of digits at even positions = 1 + 0 + 2 = 3

=> Difference = 25 − 3 = 22

=> Since 22 is a multiple of 11, the number 918082 is perfectly divisible by 11.

Therefore The correct answer is 0 or multiple of 11.

Additional Information

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Divisibility Rule of 3

A number is completely divisible by 3 if the sum of all its individual digits is a multiple of 3.

Divisibility Rule of 4

A number is divisible by 4 if the number formed by its last two digits (tens and ones place) is divisible by 4.

Divisibility Rule of 8

A number is divisible by 8 if the number formed by its last three digits (hundreds, tens, and ones place) is divisible by 8.

Divisibility Rule of 9

A number is perfectly divisible by 9 if the sum of all its digits is a multiple of 9.

Q72. Answer: (a) 106

Given:

Marks obtained by six students in Hindi are given as percentages. Maximum marks in Hindi = 120.

Formula used:

Marks = (Percentage / 100) × Maximum Marks

Average marks in Hindi = (Sum of marks obtained by all students in Hindi) / (Number of students)

Calculation:

• Aanya: (90 / 100) × 120 = 108

• Aarav: (90 / 100) × 120 = 108

• Lavi: (80 / 100) × 120 = 96

• Monika: (100 / 100) × 120 = 120

• Devyansh: (100 / 100) × 120 = 120

• Tanmay: (70 / 100) × 120 = 84

Sum of marks = 108 + 108 + 96 + 120 + 120 + 84 = 636

Average marks = 636 / 6 = 106

Therefore The average marks obtained by all six students in Hindi is 106.

Q73. Answer: (d) 343 : 729

Given:

If the surface areas of two spheres are in the ratio of 49 : 81, then find the ratio of their volumes.

Formula used:

Surface Area of a Sphere = $4\pi r^2$

Volume of a Sphere = $(4/3)\pi r^3$

Calculation:

Let the radii of the two spheres be r1 and r2.

Given surface areas ratio: $(4\pi r1^2) / (4\pi r2^2) = 49 / 81$

=> $(r1 / r2)^2 = 49 / 81$

=> $r1 / r2 = \sqrt{(49 / 81)}$

=> $r1 / r2 = 7 / 9$

Now, the ratio of their volumes:

(Volume of Sphere 1) / (Volume of Sphere 2) = $[(4/3)\pi r1^3] / [(4/3)\pi r2^3]$

=> $(r1 / r2)^3$

=> $(7 / 9)^3$

=> 343 / 729

Therefore The correct answer is option (4).

Q74. Answer: (d) 60°

Given:

In ΔABC, AB = √3 units, BC = 1 unit, and AC = 2 units

Calculation:

(1, √3, 2) makes a triplet as

$2^2 = (1)^2 + (\sqrt{3})^2$

4 = 1 + 3

4 = 4

So, Δ ABC is a right-angle triangle at angle B

Now, for angle ACB:

tan C = p/b = AB/BC

=> tan C = √3/1 = √3

=> tan C = tan 60°

So, angle C = 60°

Hence, angle ACB = 60°

Therefore The correct answer is option (4).

Q75. Answer: (b) 8 days

Given:

P completes a work in 12 days and Q in 24 days.

Formula used:

Work rate of P = 1/12 work/day

Work rate of Q = 1/24 work/day

Combined work rate of P and Q = 1/12 + 1/24 work/day

Calculation:

Combined work rate = 1/12 + 1/24

=> Combined work rate = 2/24 + 1/24

=> Combined work rate = 3/24

=> Combined work rate = 1/8 work/day

Time to complete the work together = 1 / (1/8)

=> Time to complete the work together = 8 days

Therefore The correct answer is option 2.

Alternate Method L.C.M (12,24) = 24 (Total work)

A does = 24/12 = 2 units of work in one day.

B does = 24/24 = 1 unit of work in one day.

Together A and B do = 2+1 = 3 units of work in one day.

So, they finish work in 24 / 3 = 8 days.

Q76. Answer: (a) 5%

The correct answer is 5%.

Key Points

• The 10th Five-Year Plan (2002-2007) aimed to reduce poverty by 5%.

• The plan emphasized inclusive growth and sought to improve the living standards of the poor and marginalized sections of society.

• It focused on enhancing employment opportunities and ensuring access to essential services like education and healthcare.

• The plan also aimed to strengthen the rural economy and promote self-reliance among disadvantaged groups.

• The poverty reduction was considered a crucial goal for achieving overall economic development and stability.

Additional Information

• First Five-Year Plan (1951-1956):

• Focused on agriculture and irrigation.

• Aimed to achieve a growth rate of 2.1% and reduce poverty by creating employment opportunities.

• Second Five-Year Plan (1956-1961):

• Emphasized industrialization and economic self-sufficiency.

• Aimed for a growth rate of 4.5% and set the stage for poverty alleviation through economic development.

• Third Five-Year Plan (1961-1966):

• Focused on self-reliance and the development of the agricultural sector.

• Targeted a growth rate of 5.6% but faced challenges due to wars and droughts.

• Fourth Five-Year Plan (1969-1974):

• Aimed at achieving a growth rate of 5.7% and reducing poverty through rural development.

• Emphasized equity and social justice.

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• Fifth Five-Year Plan (1974-1979):
• Focused on employment generation and poverty alleviation.
• Aimed for a growth rate of 4.4%, but faced challenges due to political instability.
• Sixth Five-Year Plan (1980-1985):
• Emphasized poverty alleviation, employment generation, and self-reliance.
• Aimed for a growth rate of 5.2%.
• Seventh Five-Year Plan (1985-1990):
• Focused on the strategy of growth with social justice.
• Aimed for a growth rate of 5% and emphasized the importance of reducing poverty.
• Eighth Five-Year Plan (1992-1997):
• Focused on economic liberalization and poverty reduction.
• Aimed for a growth rate of 5.6% and included initiatives to enhance the quality of life for the poor.
• Ninth Five-Year Plan (1997-2002):
• Emphasized poverty alleviation and employment generation.
• Targeted a growth rate of 6.5% and aimed to reduce poverty by 5% during the plan period.

Q77. Answer: (d) The size of Earth and Venus is almost similar.

The correct answer is Option 4.

Key Points

• Earth and Venus are often referred to as "sister planets" due to their similar sizes, with Earth having a diameter of about 12,742 km and Venus around 12,104 km.
• Mars is not the warmest planet; Venus is the hottest due to its thick atmosphere that traps heat.
• Saturn has a much lower density than Earth. Saturn is the least dense planet in the solar system, with a density less than that of water.
• Jupiter is significantly larger than Mars; in fact, it is the largest planet in our solar system, while Mars is much smaller.

Additional Information

• Jupiter's diameter is about 139,822 km, making it more than 6 times larger than Earth.
• Mars has a thin atmosphere and average temperatures around -80 degrees Fahrenheit (-62 degrees Celsius), much colder than Earth.
• Venus has a dense atmosphere composed mainly of carbon dioxide, contributing to its extreme greenhouse effect and surface temperatures around 900 degrees Fahrenheit (475 degrees Celsius).
• Saturn is famous for its prominent ring system, which is made up of ice and rock particles ranging in size.
• While Earth is a rocky planet, both Venus and Mars are also terrestrial, but they differ significantly in terms of surface conditions and atmospheres.
• Earth has a stronger gravitational pull compared to Mars and Venus due to its larger mass, affecting the potential for retaining an atmosphere and sustaining life.

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Q78. Answer: (a) S Abdul Nazeer - Bihar

The correct answer is Option 3.

Key Points

• S Abdul Nazeer was appointed as the Governor of Andhra Pradesh on February 12, 2023.
• The role of governors in India includes being the constitutional head of a state and overseeing its legislative assembly.
• Ramesh Baish is the Governor of Maharashtra.
• Phagu Chauhan is the Governor of Meghalaya.
• Shiv Pratap Shukla is the Governor of Himachal Pradesh.

Additional Information

• Article 153 states that there shall be a Governor for each state. This establishes the role of the governor as a constitutional authority.
• Governors are appointed by the President of India, as per Article 155, which empowers the President to appoint governors at their discretion.
• While governors typically serve a term of five years, they hold office at the pleasure of the President, meaning they can be removed at any time.
• Governors have various powers, including legislative, executive, and judicial functions, and they play a key role in the state

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government's functioning, including the ability to summon and prorogue the state legislature.

• | Aspect | Governor | President |

Position	The constitutional head of a state	Constitutional head of the country
Appointment	Appointed by the President of India	Elected by an electoral college
Term	Typically serves a term of 5 years	Serves a term of 5 years
Powers	Has executive, legislative, and judicial powers in the state	Has executive powers at the national level
Role	Acts as a link between the central government and the state government	Represents the nation and performs ceremonial duties
Removal	Can be removed by the President at any time	Can be impeached by Parliament
Legislative Role	Summons and prorogues state legislature sessions	Summons and prorogues Parliament sessions
Judicial Powers	Has the power to grant pardons in the state	Has the power to grant pardons at the national level
Political Influence	Often has ties with the ruling party in the state	Represents the ruling party at the national level, but acts as a neutral figure

Q79. Answer: (c) Gujarat

The correct answer is Gujarat.

Key Points

• National Games:-

• The National Games is a biennial multi-sport event that features athletes from all over India.

• The event is organized by the Indian Olympic Association (IOA) and is considered to be one of the biggest sporting events in the country.

• The 36th National Games were held in Gujarat from 29th Sep 2022 to 12th Oct 2022.

• New Delhi and Kerala have also hosted the National Games in the past.

Additional Information

• Andhra Pradesh: The 32nd National Games were held in Andhra Pradesh in 2002.

• The event was held in the city of Hyderabad and featured 34 sports disciplines.

• New Delhi: The 26th National Games were held in New Delhi in 1985.

• Kerala: The 27th and 35th National Games were held in Kerala in 1987, and 2015 respectively.

• Kerala is known for its sports culture and has produced many top athletes in various sports.

• Comparison of the National Games of India and the Olympics:

Aspect	National Games of India	Olympics
Organized by	Indian Olympic Association (IOA)	International Olympic Committee (IOC)
Frequency	Every 2 years	Every 4 years
Participants	Primarily Indian athletes	Athletes from around the world
Events	Various Indian sports and disciplines	Various international sports and disciplines
First Edition	1924 (in Lahore)	1896 (in Athens)
Purpose	Promote sports and talent at the national level	Foster international peace and friendship through sports
Medals Awarded	Gold, silver, and bronze medals for athletes	Gold, silver, and bronze medals for athletes
Cultural Significance	Promotes regional sports and local cultures	Celebrates global unity and athletic excellence

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Q80. Answer: (a) Justus von Liebig

The correct answer is Justus von Liebig.

Key Points

• Justus von Liebig (1803-1873) was a German chemist and is often referred to as the father of modern organic chemistry.

• In 1835, Justus von Liebig developed a process to coat glass with metallic silver, resulting in the creation of the first modern mirror.

• Liebig's work in agriculture led to the development of fertilizers, which improved crop yields and agricultural practices.

• Liebig received various honors for his contributions to science, including being elected as a member of several prestigious scientific societies.

Additional Information

• C.V. Raman:

• An Indian physicist known for his discovery of the Raman Effect in 1928, which explained the scattering of light and led to advancements in spectroscopy.

• He received the Nobel Prize in Physics in 1930 for his work.

• Victor Francis Hess:

• An Austrian physicist recognized for discovering cosmic rays in 1912, which contributed significantly to the field of high-energy physics.

• He won the Nobel Prize in Physics in 1936 for his contributions to the study of cosmic radiation.

• C.H. Townes:

• An American physicist known for co-developing the laser and maser technologies, which have numerous applications in communication and medicine.

• He was awarded the Nobel Prize in Physics in 1964 for his fundamental work in the field of quantum electronics.

Q81. Answer: (d) Raag

The correct answer is Raag.

Key Points

• Miyan ki Todi is a morning raag in the Hindustani classical music tradition, typically performed during the early hours before sunrise.

• The raag is based on the Todi thaat and features a unique combination of notes, using both shuddha (natural) and komal (flat) notes, specifically:

• Arohana (ascending): S R2 G M1 P D2 N D1 S'

• Avarohana (descending): S' N D1 P M1 G R2 S

• Miyan ki Todi is associated with bhakti (devotion) and often evokes feelings of longing, melancholy, and serenity.

• The raag is attributed to Miyan Tansen, one of the greatest composers and musicians of the Mughal court, enhancing its cultural significance.

• Miyan ki Todi is frequently performed by instrumentalists and vocalists in various formats, including khayal, dhrupad, and thumri, showcasing its versatility within Hindustani classical music.

Additional Information

• Tanam

• Tanam is a melodic section in the alap of a raga performance, characterized by exploration of the raga without fixed rhythm.

• It features repetitive patterns and intricate ornamentation, creating a fluid, tension-building effect.

• Tanam showcases a musician's improvisational skills and emotional expression, enhancing the overall aesthetic of the performance.

• Chhand

• Chhand refers to the metrical composition or rhythmic structure in Indian classical music and poetry, defining the arrangement of syllables in a rhythmic pattern.

• There are various types of Chhand, such as Vritta in Sanskrit poetry, which includes different metrical forms like Anushtubh, Trishtubh, and Jagati, each with a specific syllable count.

• Chhand plays a crucial role in shaping the lyrical rhythm of compositions, facilitating the integration of music and poetry, and enhancing the overall aesthetic experience in performances.

• Kirtan

• Kirtan is a form of devotional singing in Hinduism, involving the chanting of hymns or mantras that praise deities, often accompanied by musical instruments.

• It typically features a call-and-response format, where a lead singer (or guru) sings a line, and the audience or group responds,

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fostering community participation and spiritual engagement.

• Kirtan serves as a means of spiritual expression and devotion, playing a significant role in various religious traditions, particularly within the Bhakti movement, and is performed in temples, homes, and community gatherings.

Q82. Answer: (b) Clear Formatting

The correct answer is Clear Formatting.

Key Points

• The "Clear Formatting" option allows you to quickly remove all applied formatting (like bold, italics, font size, color, etc.) from the selected text while preserving the actual text content.

• It can be found under the Home tab in the Font group, represented by an eraser icon labeled "Clear Formatting."

• You can also use the keyboard shortcut Ctrl + Spacebar to clear character formatting or Ctrl + Q to clear paragraph formatting.

• This feature is useful when you want to revert text to the default formatting without manually changing individual formatting elements.

• It removes custom formatting but retains the document's underlying style settings, such as the default font and paragraph styles set for the document.

Additional Information

• Cut function in MS Word

• The Cut function removes the selected text or object from its original location and places it in the clipboard, allowing you to paste it elsewhere in the document.

• You can quickly perform the Cut action using the keyboard shortcut Ctrl + X.

• The Cut option is typically used when you want to relocate content within the document or transfer it between documents.

• Paste Special in MS Word

• The Paste Special feature allows you to paste copied content in various formats, such as plain text, formatted text, or an image, depending on how you want the content to appear.

• You can access Paste Special by using the keyboard shortcut Ctrl + Alt + V or by selecting it from the Paste drop-down in the Home tab.

• It is useful when you need to control how content is pasted, for example, when you want to paste data as unformatted text or as a specific object, such as a picture or HTML content.

• Format Painter in MS Word

• Format Painter is a tool that allows you to copy formatting (such as font, color, size, and style) from one section of text and apply it to another, making formatting consistent across the document.

• It is located in the Home tab under the Clipboard group, represented by a paintbrush icon.

• You can use Format Painter by selecting the text with the desired formatting, clicking the Format Painter icon, and then selecting the text you want to apply the formatting to. Double-clicking the icon allows you to apply formatting to multiple sections.

Q83. Answer: (b) Agenda for Members of Panchayati Raj Institutions for Rural Development

The correct answer is Agenda for Members of Panchayati Raj Institutions for Rural Development.

Key Points

• The book titled Agenda for Members of Panchayati Raj Institutions for Rural Development was unveiled by Union Minister Giriraj Singh in the year 2022.

• The book serves as a comprehensive guide for the elected representatives of Panchayati Raj Institutions (PRIs) to effectively implement rural development programs and schemes.

• It covers various rural development aspects, including sanitation, water management, livelihood enhancement, and infrastructure development, aimed at improving the quality of life in rural areas.

• The book aims to build the capacity of PRI members by enhancing their understanding of different government schemes and how to implement them efficiently for rural development.

• The publication is an important step toward empowering local self-governance and ensuring the active participation of PRI members in achieving sustainable rural development goals across India.

Additional Information

• Modi @20 Dreams meet delivery

• The book presents an in-depth analysis of Narendra Modi’s 20 years in public service, exploring his leadership, governance model, and achievements both as the Chief Minister of Gujarat and the Prime Minister of India.

• It includes essays by prominent personalities like Amit Shah, N. Chandrasekaran, and Sudha Murthy, offering diverse perspectives on Modi's vision, policies, and their impact on national development.

• The book highlights key initiatives such as Digital India, Make in India, and Swachh Bharat, focusing on how Modi's leadership style transformed governance and aligned dreams with practical results.

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• Heartfelt: The Legacy of Faith

• The book is written by Prime Minister Narendra Modi, reflecting on personal experiences and the importance of faith in navigating life's challenges.

• It emphasizes the role of faith in shaping one's life, highlighting spirituality, devotion, and the power of belief as key elements in personal growth and success.

• The book discusses how faith helps individuals find inner strength, remain grounded, and maintain focus in times of adversity, serving as a guiding force throughout life.

• Modi shares anecdotes and lessons from his own journey, illustrating the legacy of faith in shaping values and decisions, both in personal and professional realms.

Q84. Answer: (b) Monstera

The correct answer is Monstera.

Key Points

• Monstera develops aerial roots that grow from the stem and branches, rather than from the radicle, allowing it to climb and stabilize itself.

• These roots help the plant anchor itself, absorb moisture from the air, and gather nutrients from its environment.

• Monstera exhibits a vining growth habit, using aerial roots to cling to nearby structures and reach sunlight in its natural habitat.

• Understanding its root system is essential for proper care, as providing a support structure can promote healthy growth indoors.

Additional Information

• Maize

• In maize, roots arise from adventitious origins, primarily from the lower parts of the stem, rather than exclusively from the radicle. This helps the plant establish a strong foundation in the soil.

• Maize develops a fibrous root system, characterized by numerous thin, branching roots that spread out widely and help in effective water and nutrient absorption.

• The roots of maize can grow to significant depths, with the primary root and lateral roots supporting the plant's stability and anchoring it firmly in the ground.

• The extensive root system enhances the plant's ability to access nutrients and moisture from the soil, which is crucial for growth and development, especially in varying soil conditions.

• Mustard plant

• The mustard plant primarily develops a taproot system, where a single main root grows downward, anchoring the plant and providing stability.

• From the taproot, lateral roots emerge, which extend horizontally and help in nutrient and water absorption from the surrounding soil.

• In addition to the taproot, mustard plants can produce adventitious roots from the stem, especially near the soil surface, aiding in support and nutrient uptake.

• The combination of taproot and lateral/adventitious roots allows the mustard plant to effectively adapt to its environment, enhancing its ability to survive and thrive in diverse soil conditions.

• Turnip

• The turnip plant develops a modified taproot that becomes enlarged and fleshy. This part of the plant stores nutrients and is the edible portion commonly consumed.

• In addition to the main taproot, turnips produce lateral roots that branch out to enhance stability and increase the plant's ability to absorb water and nutrients from the soil.

• The turnip's enlarged root serves as a significant reservoir of carbohydrates and other nutrients, making it an essential food source and a key agricultural crop in various regions.

Q85. Answer: (c) National Infrastructure Pipeline

The correct answer is National Infrastructure Pipeline.

Key Points

• The National Infrastructures Pipeline covers over 6,000 projects across various sectors.

• It includes:

• Energy: Includes power, renewable energy, and oil & gas.

• Roads: National and state highways, rural roads.

• Urban Infrastructure: Urban transport, water supply, affordable housing.

• Railways: Expansion and modernization of rail networks.

• Agriculture: Irrigation, food processing infrastructure.

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• It aims to focus: Economic Growth, Job Creation, improved Quality of Life.

• The implementation of NIP is monitored by the Task Force set by the Department of Economic Affairs (DEA).

Additional Information

• The National Infrastructure Pipeline (NIP) is launched by the Government of India to develop world-class infrastructure in the country over the period of FY 2020-2025.

• Important projects under NIP are: UDAN Scheme, High-Speed Rail, Dedicated Freight Corridors, Sagarmala Programme, Bharatmala Pariyojana.

• It aims to focus: Infrastructure Vision, Public-Private Partnership (PPP) and Innovative Financing.

• National Infrastructure Planning through the National Infrastructure Pipeline represents India's ambitious vision to build a robust, sustainable infrastructure base and drive sustainable economic growth.

• The prime objectives include: Economic Growth, Job Creation, Quality of Life, Sustainability and Investment Facilitation.

• Key sectors include:

• Energy: Power Generation, Transmission and Distribution, Oil and Gas.

• Transport: Bharatmala Pariyojana, Dedicated Freight Corridors (DFC), Sagarmala project, new greenfield airports.

• Urban Infrastructures: Development of 100 smart cities, Pradhan Mantri Aawas Yojana (PMAY), Expansion of metro services.

• Water and Sanitation: Jal Jeevan Mission, Swachh Bharat Mission, Extension of irrigation networks.

• Social infrastructures: New hospitals, medical colleges, and healthcare facilities, Expansion of skill development centers.

-

Q86. Answer: (a) To join Defence forces

The correct answer is To join Defence forces.

Key Points

• The fundamental duties of Indian citizens are enshrined in Part IVA of the Indian Constitution, under Article 51A.

• These duties were added by the 42nd Amendment Act in 1976.

• The idea of including duties were taken from the former Soviet Union's Constitution.

• According to Article 51A, it shall be the duty of every citizen of India:

• To abide by the Constitution and respect its ideals and institutions, the National Flag, and the National Anthem;

• To cherish and follow the noble ideals which inspired our national struggle for freedom;

• To uphold and protect the sovereignty, unity, and integrity of India;

• To defend the country and render national service when called upon to do so;

• To promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic, and regional or sectional diversities; to renounce practices derogatory to the dignity of women;

• To value and preserve the rich heritage of our composite culture;

• To protect and improve the natural environment including forests, lakes, rivers, and wildlife, and to have compassion for living creatures;

• To develop scientific temper, humanism, and the spirit of inquiry and reform;

• To safeguard public property and to abjure violence;

• To strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavor and achievement;

• who is a parent or guardian, to provide opportunities for education to his child or, as the case may be, ward between the age of six and fourteen years.

• The key features of Fundamental Duties are:

• Fundamental Duties are not legally enforceable by the courts.

• These duties serve as a moral compass to guide the behavior and actions of citizens.

• The duties encompass values, patriotism, environmental consciousness, the promotion of harmony and scientific temper.

Q87. Answer: (b) 7

The correct answer is 7.

Key Points

• The PM MITRA (Pradhan Mantri Mega Integrated Textile Region and Apparel) parks initiative is a significant move by the Indian government to boost the textile sector.

• The states selected from implementation are: Tamil Nadu, Telangana, Gujarat, Rajasthan, Uttar Pradesh, Madhya Pradesh and Karnataka.

• It focus on:

• Create world-class infrastructure with modern amenities to boost the competitiveness of the textile sector.
• Increase India's textile and apparel exports.
• Generate direct employment opportunities.
• Lower logistics costs by providing efficient and bulk transportation of goods.
• The important features of scheme are:
• The parks are strategically located seven states, ensuring regional balance and easily assess to raw material and market.
• Ready-built factory premises with all basic amenities like power, water supply, waste disposal, and effluent treatment plants.
• Emphasis on sustainable and eco-friendly production processes.
• Special Purpose Vehicle (SPV) formed between the state government and central government.

Q88. Answer: (a) Kutiyattam

The correct answer is Kutiyattam.

Key Points

• Kutiyattam or Koodiyattam, which literally means combined acting, is a form of traditional Sanskrit theatre about 2,000 years old.
• UNESCO declared Kutiyattam as a Masterpiece of the Oral and Intangible Heritage of Humanity in 2001.
• The dance form involves: Mudras (Hand Gestures), Facial Expressions, Music and Instruments (Traditional instruments such as mizhavu, edakka, shankha, and kuzhal).
• It is believed to be 2000 yrs old and have its roots back to the classical Sanskrit theatre forms detailed in ancient texts like Bharata Muni's Natyashastra.

Additional Information

• UNESCO, the United Nations Educational, Scientific and Cultural Organization, was established on November 16, 1945.
• As of July 2023, UNESCO has 194 members states and 12 associate members.
• UNESCO's objective is to contribute to the building of peace, the eradication of poverty, sustainable development and intercultural dialogue through education, the sciences, culture, communication and information.
• Its founding slogan is Building Peace in the Minds of Men and Women.
• Some important campaigns run by UNESCO are:
• Education for All (EFA): aimed at meeting the learning needs of all children, youth, and adults by 2015.
• UNESCO Chairs and UNITWIN Networks: Partners with higher education institutions to advance research, training, and program development in all of UNESCO's fields of competence.
• Creative Cities Network: Promotes cooperation among cities that have identified creativity as a strategic factor for sustainable urban development.
• Important publications released by UNESCO are: Global Education Monitoring Report (GEM Report), Science Report, World Culture Reports.

Q89. Answer: (a) Kabaddi

The correct answer is Kabaddi.

Key Points

• In Kabaddi, the attacking player is called a 'raider,' who enters the opponent's half to tag players and score points.
• The raider must hold their breath and chant "kabaddi" while attempting to return to their side without being tackled.
• The role of the raider is crucial in the game, as they are responsible for scoring points for their team.
• Kabaddi is a traditional Indian sport with a growing international presence and several leagues.
• The strategy of a raider involves agility, speed, and the ability to read the opponent's movements.

Additional Information

• Badminton:
• Badminton features players known as 'shuttlers' who hit a shuttlecock over a net.
• The game can be played in singles or doubles formats.
• Badminton requires quick reflexes and strategic shot placement.
• Some of the famous players are:-
• P.V. Sindhu (India)
• Lin Dan (China)
• Carolina Marín (Spain)
• Tennis:
• In tennis, players are referred to as 'players' or 'athletes' rather than having a specific title like 'raider.'

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• Tennis is played on various surfaces, including grass, clay, and hard courts.
• The objective is to hit the ball over the net and within the opponent's court.
• Some of the famous players are:-
• Roger Federer (Switzerland)
• Serena Williams (USA)
• Rafael Nadal (Spain)
• Hockey:
• Hockey players are commonly known as 'forwards,' 'defenders,' or 'goalies,' depending on their position.
• The sport is played on grass or artificial turf, and the objective is to score goals by hitting a puck or ball into the opponent's net.
• Teamwork and strategy are essential components in hockey.
• Some of the famous players are:-
• Dhyan Chand (India)
• Wayne Gretzky (Ice Hockey, Canada)
• Sidharth Malhotra (India)

Q90. Answer: (c) 7^(th) August

The correct answer is 7^(th)August.

Key Points

• National Javelin Day is celebrated in India on 7th August to honor the sport of javelin throw.
• This date commemorates the achievements of Indian javelin throwers, particularly Neeraj Chopra, who won a gold medal at the Tokyo 2020 Olympics.
• The day aims to promote javelin throw as a sport and inspire young athletes in India.
• Various events and activities are organized nationwide to celebrate and encourage participation in javelin throw.
• It serves as a platform to recognize the hard work and dedication of athletes in athletics.

Additional Information

• 6th August:
• This date is significant for the Tokyo Olympics' closing ceremony, where Neeraj Chopra was celebrated.
• It does not specifically relate to javelin as a dedicated day.
• 12th January:
• This day is celebrated as National Youth Day in India, marking the birth anniversary of Swami Vivekananda.
• It focuses on youth empowerment and leadership rather than any specific sport.
• 29th August:
• This date is observed as National Sports Day in India, honoring the birthday of hockey legend Dhyan Chand.
• It is a broader celebration of all sports rather than focusing specifically on javelin throw

Q91. Answer: (c) Chenab

The correct answer is Chenab.

Key Points

• The Salal Project, also known as the Salal Hydroelectric Power Station, is located on the Chenab River in Jammu and Kashmir, India.
• The Chenab River originates in the Himalayas and flows approximately 960 km through India and Pakistan, and is one of the five rivers of Punjab, crucial for irrigation and agriculture.
• The project has a total installed capacity of 690 MW, generating electricity to meet regional demand.
• The Chenab also has major tributaries, including the Jhelum and Ravi rivers, contributing to its significance.
• The Salal Project plays a vital role in flood control and irrigation in addition to power generation, and it is managed by the National Hydroelectric Power Corporation (NHPC).

Additional Information

• Ravi:
• The Ravi River flows approximately 720 km and is another important river in the region, flowing through India and Pakistan.
• It is one of the five rivers of Punjab, and the Ranjit Sagar Dam built on this river provides hydroelectric power and irrigation.
• Ganga:
• The Ganga River originates from the Gangotri Glacier in Uttarakhand and flows for about 2,525 km through northern India into Bangladesh.

• Considered sacred in Hinduism, the Ganga is vital for millions who depend on it for water and agriculture, and efforts like the Ganga Action Plan aim to address pollution and conserve the river.

• Krishna:

• The Krishna River originates in the Western Ghats of Maharashtra and flows approximately 1,400 km through Karnataka and Andhra Pradesh into the Bay of Bengal.

• This river is crucial for irrigation and drinking water supply, with major projects like the Nagarjuna Sagar and Srisailam dams supporting its significance.

Q92. Answer: (a) Article 24

The correct answer is Article 24.

Key Points

• Article 24 of the Constitution of India prohibits the employment of children below the age of 14 years in hazardous industries, including mines.

• In this scenario, asking a 9-year-old child to help in the mine instead of attending school would violate this provision aimed at protecting children from exploitation.

• The article reflects the commitment to children's rights and their right to education, ensuring that they are not subjected to harmful working conditions.

• The Constitution emphasizes the importance of education for children, aligning with various laws, such as the Right of Children to Free and Compulsory Education Act.

• Violating Article 24 undermines efforts to eradicate child labor and promote the well-being of children in society.

Additional Information

• Article 20:

• Article 20 provides protection against retroactive criminal legislation and ensures that no person is convicted of an offense except for violation of a law in force at the time of the commission.

• Article 18:

• Article 18 prohibits discrimination on grounds of religion, race, caste, sex, or place of birth and focuses on the abolition of titles that confer privileges.

• Article 29:

• Article 29 provides for the protection of the interests of minorities by allowing them to conserve their culture, language, or script, and to establish and administer educational institutions.

Important Points

Fundamental Right	Description	Articles
Right to Equality	Ensures equality before the law and prohibits discrimination on grounds of religion, race, caste, sex, or place of birth.	Article 14-18
Right to Freedom	Guarantees various freedoms such as speech and expression, assembly, association, movement, residence, and profession.	Article 19-22
Right against Exploitation	Prohibits human trafficking, forced labor, and child labor.	Article 23-24
Right to Freedom of Religion	Ensures the freedom of conscience and the right to profess, practice, and propagate religion.	Article 25-28
Cultural and Educational Rights	Protects the rights of minorities to conserve their culture, language, and script and to establish educational institutions.	Article 29-30
Right to Constitutional Remedies	Provides the right to approach the courts for the enforcement of Fundamental Rights.	Article 32

Q93. Answer: (c) Gujarat

The correct answer is Gujrat.

Key Points

• One of the most famous kite festivals is the International Kite Festival held in Ahmedabad, India, every January.

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• Kite flying is believed to have originated in China over 2,000 years ago.
• The festival is organized to celebrate Makar Sankranti, a harvest festival in India.
• The record for the largest kite is held by a kite created in Mexico, measuring over 1,200 square meters.

Additional Information

State	Festival
Andhra Pradesh	Ugadi
Arunachal Pradesh	Losar
Assam	Bihu
Chhattisgarh	Bastar Dussehra
Haryana	Teej
Himachal Pradesh	Kullu Dussehra
Madhya Pradesh	Khajuraho Dance Festival
Manipur	Yaoshang
Tripura	Kharchi Puja

Q94. Answer: (a) Ellora

The correct answer is Ellora.

Key Points

• The Kailasa Temple, built by the Rashtrakutas, is located in Ellora, Maharashtra, India.
• It is one of the most remarkable rock-cut temples in the world and is dedicated to Lord Shiva.
• The temple complex, which includes 34 monasteries and temples, is a UNESCO World Heritage Site.
• The Kailasa Temple, also known as Kailasanatha Temple, is famous for its monolithic structure, carved from a single rock.

Additional Information

• Hampi, a UNESCO World Heritage Site located in Karnataka, India.
• Hampi was the capital of the Vijayanagara Empire from the 14th to the 16th century.
• The site is famous for its Dravidian architecture and includes over 1,600 ancient monuments, temples, and structures.
• Kanchipuram (Kanchi), is a city in Tamil Nadu, India, known for its rich history, cultural significance, and beautiful temples.
• It served as a capital for various South Indian dynasties, including the Pallavas, Cholas, and Vijayanagara Empire.
• The Amravati Stupa is one of the largest stupas in India and is renowned for its intricately carved stone.
• Amravati has been designated as the new capital city of the state of Andhra Pradesh, established after the bifurcation of the state in 2014.

Q95. Answer: (d) Rajasthan

The correct answer is Rajasthan.

Key Points

• Kalbelia dance, also known as the 'Sapera Dance', is a traditional folk dance of the Kalbelia community.
• The dance is associated with the Kalbelia community, traditionally known as snake charmers.
• In 2010, Kalbelia dance was inscribed on UNESCO’s list of Intangible Cultural Heritage of Humanity.
• Kalbelia dance is accompanied by folk music played on traditional instruments, including the morsing, dholak, and shehnai.

Additional Information

State	Dance
Andhra Pradesh	Kuchipudi, Lambadi, Dhimsa
Arunachal Pradesh	Buiya Dance, Sangham Dance
Assam	Bihu, Sattriya, Naghara Dance
Bihar	Bhojpuri Dance, Bidesia, Jat-Jatin
Chhattisgarh	Panthi, Raut Nacha, Soowa

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Q96. Answer: (c) sohar

The correct answer is Sohar.

Key Points

• Folk music sung on the birth of a child in some Indian states like Bihar, Uttar Pradesh, and others is called "Suhag" or "Suhag geet."

• It is considered a way to celebrate the joy of childbirth and to bless the newborn.

• These songs are often sung by female relatives, including grandmothers, aunts, and sisters.

• The music may be accompanied by traditional instruments such as dholak, morsing, or even hand claps.

Additional Information

State	Folk song
Andhra Pradesh	Burrakatha, Jangam Katha
Arunachal Pradesh	Buiya, Ema Naru
Bihar	Suhag, Bhojpuri Folk Songs
Himachal Pradesh	Nati, Kinnauri Songs

Q97. Answer: (a) Application software is designed to perform specific tasks or functions to meet the user's needs.

The correct answer is Application software is designed to perform specific tasks or functions to meet the user's needs.

Key Points

• Application software refers to programs designed to help users perform specific tasks, enhancing efficiency and productivity.

• These user-centric programs include examples like Microsoft Office Suite, Adobe Photoshop, and web browsers such as Google Chrome.

• Application software ranges from simple tools like calculators to complex systems like ERP.

• Unlike system software, it does not manage hardware components.

Additional Information

• System software is essential for managing and controlling computer hardware and providing a platform for application software to run.

• It includes operating systems like Windows and macOS, device drivers, and utility programs.

• Written in low-level languages, system software handles critical functions such as memory management, process management, and hardware control, ensuring the smooth operation of the entire computer system.

• Unlike application software, it runs continuously in the background and is necessary for the system to function properly.

Q98. Answer: (b) supply of money

The correct answer is demand for money.

Key Points

• The demand for money refers to the desired holding of financial assets in the form of money (cash or bank deposits) rather than investments.

• The demand for money is influenced by several factors.

• People need money for daily transactions (transaction motive) and to cover unforeseen expenses (precautionary motive).

• Additionally, money is held for future investment opportunities (speculative motive).

• The demand for money is also inversely related to interest rates; higher interest rates reduce the demand for holding money, while lower rates increase it.

Additional Information

• Supply of money refers to the total amount of monetary assets available in an economy at a specific time. An increase in the money supply can lead to inflation if not matched by economic growth.

• Elasticity of money is not a standard economic term but could refer to how responsive the demand for money is to changes in interest rates or other economic variables.

• The velocity of money is a key indicator used alongside GDP to gauge the economic health and activity level.

Q99. Answer: (d) Aurobindo Ghosh

The correct answer is Aurobindo Ghosh.

Key Points

• Aurobindo Ghosh was an Indian philosopher, yogi, guru, poet, and nationalist.

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• He was one of the influential leaders in the early part of the Indian independence movement.
• His notable works include 'The Life Divine', 'The Synthesis of Yoga', and 'Savitri'.
• He later moved to Pondicherry and founded the Aurobindo Ashram, dedicating his life to spiritual practice and writing.

Additional Information

• Extremist Freedom Fighters:
• Extremist freedom fighters believed in more radical approaches to achieve independence from British rule.
• They often advocated for direct action, including protests, boycotts, and sometimes even armed struggle.
• Prominent extremist leaders included Bal Gangadhar Tilak, Bipin Chandra Pal, and Lala Lajpat Rai, collectively known as the Lal-Bal-Pal trio.
• Aurobindo Ghosh's Contribution to Indian Freedom Movement:
• Aurobindo was initially involved in the Indian freedom struggle and was a member of the Indian National Congress.
• He was associated with the revolutionary activities and was arrested in the Alipore Bomb Case in 1908, though later acquitted.
• After his acquittal, Aurobindo gradually retreated from active politics and focused on spiritual and philosophical pursuits.
• The Life Divine:
• This is a book written by Aurobindo Ghosh that expounds on his philosophical ideas and spiritual experiences.
• It addresses the nature of reality, the evolution of consciousness, and the ultimate goal of human life.
• The Synthesis of Yoga:
• Another significant work by Aurobindo, it elaborates on the integration of various paths of yoga (such as Karma Yoga, Bhakti Yoga, and Jnana Yoga) into a comprehensive spiritual practice.
• Savitri:
• An epic poem written by Aurobindo, it is considered one of his masterpieces and is based on the legend of Savitri and Satyavan from the Mahabharata.
• The poem explores themes of human destiny, love, and transformation.

Q100. Answer: (c) 84.7%

The correct answer is 0.847.

Key Points

• The literacy rate of males in India, as per the National Survey of India-2022, is 0.847.
• This figure represents the percentage of male individuals aged 7 and above who can read and write with understanding.
• The literacy rate is a crucial indicator of a country's educational development and is used for various policy and planning purposes.
• India has seen a significant increase in literacy rates over the decades due to various government initiatives and educational reforms.

Additional Information

• Literacy Rate
• The literacy rate is defined as the percentage of people aged 7 years and above who can read and write with understanding.
• It is a key indicator of educational attainment in a country.
• Higher literacy rates are associated with better socio-economic conditions and enhanced quality of life.
• National Survey of India
• The National Survey of India conducts various surveys to gather data on different socio-economic parameters, including literacy rates.
• These surveys help in formulating policies and programs aimed at improving the country's overall development.
• Government Initiatives to Improve Literacy
• Saakshar Bharat Mission: Launched in 2009, it aims to further promote and strengthen adult education, especially among women.
• Right to Education Act (RTE): Enacted in 2009, it mandates free and compulsory education for children between the ages of 6 and 14.
• National Literacy Mission: Launched in 1988, it aims to achieve a sustainable threshold level of 75% literacy by focusing on women and other disadvantaged groups.
• Challenges in Achieving Higher Literacy Rates
• Regional Disparities: Significant variations in literacy rates exist between different regions and states in India.
• Gender Inequality: Despite improvements, female literacy rates lag behind male literacy rates.
• Dropout Rates: High dropout rates, especially in rural areas, hinder the overall improvement in literacy rates.

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- Quality of Education: Ensuring quality education and reducing the student-teacher ratio remains a challenge.

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