Q:1 If 12 women or 15 men can complete the work in 20 days. What is the number of days taken by 18 women and 10 men to complete the same work?
1. 11 days
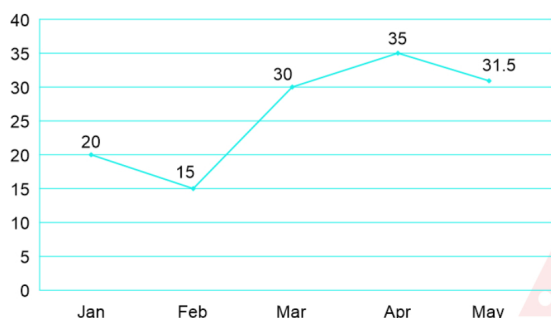2. $10 \frac{5}{17}$ days
3. $9 \frac{5}{13}$ days
4. $9 \frac{2}{13}$ days

Q:2 The difference between Simple interest and Compound interest on an amount of Rs. 25000 for 2 years is Rs. 256. What is the rate of Interest?
1. 10.12%
2. 12.7%
3. 14.56%
4. 19.17%

Directions 3 – 4 : Study the following line graph and answer the questions accordingly.
The line graph shows the value per unit of share of the company in five months.

Q:3 A person purchased shares for Rs 22000, Rs 16500, and Rs 18000 in the months of January, February, and March respectively. If he sell all the shares in April. Find the profit made by that person.
1. Rs 28500
2. Rs 34500
3. Rs 39500
4. Rs 41500

Q:4 A buys a share worth Rs 15000 in January and Rs 21000 in February. If he had invested all the money in February, how many more shares would he have got?
1. 200
2. 250
3. 300
4. 350

Q:5 What approximate value should come in the place of question mark (?) in the following question?
$\sqrt{840.99} + 17.33^3 - \sqrt{144.44} - 21.11^3 = ? + 23.33^3 - 25.05^3$
1. 873
2. 793
3. -873
4. -593

Q:6 A hollow cylinder of height 20 cm has an exterior radius of 12 cm and the thickness of the material is 1 cm. Find the total surface area of the hollow cylinder.
1. 3032 cm^2
2. 3036 cm^2
3. 3033 cm^2
4. 3000 cm^2

Q:7 The average weight of all the vehicles in parking is 12000 kg. The average weight of 42 vehicles is 15000 kg. The average weight of the remaining vehicles is 6000 kg. What is the total number of remaining vehicles in the parking?
1. 18
2. 11
3. 21
4. 31

Q:8 Two stations A & B are 1250 km apart. A train starts from station A and another train starts from station B moving towards each other. If the sum of their speed is three-fifth of the total distance then, how much time will they take to cross each other?
1. 1 hour
2. 1 hour and 15 minutes
3. 1 hour and 40 minutes
4. 1.5 hours

Q:9 The HCF of two numbers, each having three digits, is 17 and their LCM is 714. Find the sum of the numbers.
1. 221
2. 289
3. 249
4. 742

Q:10 During a sale, a trader reduced the selling

1

price of a motor car by offering a 20% discount. In this process, he incurred a loss of 8%. What would have been his profit percent, if he had instead offered a 12% discount?
1. 1.2%
2. 3.4%
3. 3%
4. 2.5%

Q:11 Six years ago, the ratio of the ages of Kishore and Sagar was 6 : 5. Six years hence, the ratio of their ages will be 9 : 8. Find the present age of Sagar.
1. 8 years
2. 14 years
3. 32 years
4. 26 years

Q:12 In a trapezium, both the parallel sides are decreased by 20%. What should be the percentage increase in the altitude of the trapezium so that the area does not change?
1. 20%
2. 10%
3. 25%
4. 100/3%

Q:13 Write the following in ascending order.
7/9, 50/63, 11/14, 101/126
1. 101/126 < 7/9 < 50/63 < 11/14
2. 7/9 < 11/14 < 50/63 < 101/126
3. 7/9 < 101/126 < 11/14 < 50/63
4. 101/126 < 50/63 < 11/14 < 7/9

Q:14 What approximate value should come in place of the question mark '?' in the following question?
1140.75 – 2356.996 – 1554.8 + 2 × 2566.7 = ?
1. 2363
2. 2596
3. 2197
4. 1894

Q:15 if $x = \frac{\sqrt{3}+1}{\sqrt{3}-1}$ and $xy = 1$ then, find the value of $(x + y)$.
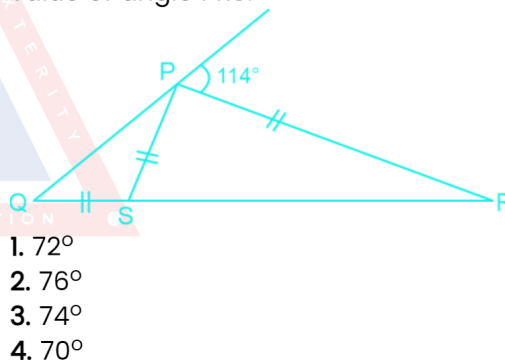1. 6

2. 4
3. 9
4. 3

Q:16 Two college students Rohit and Aman are in a group and can complete the assignment in 12, and 6 minutes respectively. Rohit has an elder brother named Vijay he takes his help to complete the assignment, but Rohit's brother can complete the assignment in 24 minutes lonely. Rohit and Vijay start working and work for only 5 minutes then left due to some reasons. The remaining work in the assignment will be completed by Aman. Find the time taken by Aman to complete the remaining assignment.
1. $2\frac{1}{4}$
2. $7\frac{1}{2}$
3. 8
4. $6\frac{3}{4}$

Q:17 In the given figure, QS = PR = PS, then find the value of angle PRS.

1. 72°
2. 76°
3. 74°
4. 70°

Q:18 The surface area of the sphere is 616 cm^2. Find the perimeter of the square if the diameter of the sphere is two times of the side of the square.
1. 35 cm
2. 28 cm
3. 21 cm
4. 42 cm

Q:19 Mr. Mohan has 5 kids A, B, C, D, and E. He had some money with him initially, he gave half the amount to A, then gave half of the remaining to B, and so on. In the end, he had Rs.1. How much money did he give to D?

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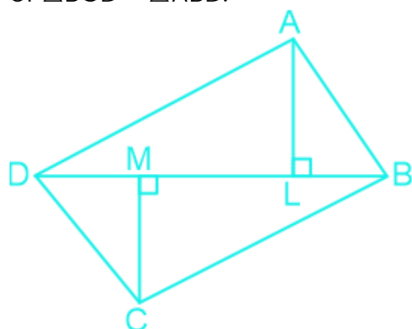
1. Rs.8
2. Rs.5
3. Rs.2
4. Rs.4

Q:20 An article costing Rs.400 is sold at 10% profit. If the cost price is decreased by 10% and the selling price is increased by 10% then, find the profit percent.
1. 40%
2. 34.44 %
3. 28.88%
4. 45%

Q:21 In triangle ABC, AB = 24 cm and AC = 30 cm. In ∠BAC is 60°, then find the area of triangle ABC.
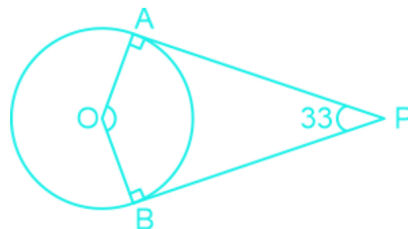1. $180\sqrt{3}$ cm^2
2. $160\sqrt{3}$ cm^2
3. $150\sqrt{3}$ cm^2
4. None of these

Q:22 In the given figure AL ⊥ BD, CM ⊥ BD. BD = 15 cm, AL = 4 cm, and CM = 6 cm. Find the area of △BCD − △ABD.

1. 15 cm^2
2. 10 cm^2
3. 05 cm^2
4. 18 cm^2

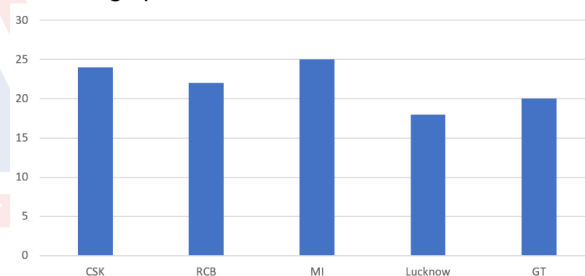**Q:23** In the given figure ∠APB = 33°, find the value of $\sqrt{\frac{1}{3} \times \angle AOB}$.

1. 2
2. 7
3. 6
4. 5

Q:24 Simplify tan 50°.
1. cos40° − sin60°
2. tan 40° + 2 tan 10°
3. tan 50° + 3 tan 100°
4. tan 50° + 5 tan 10°

Q:25 The following graph shows the average age of 11 players of 5 IPL teams (CSK, RCB, MI, LSG, and GT)
Examine the graph carefully and answer the following questions

If the average of 10 players other than the captain of RCB and LSG is 17.5 then, find the average age of both the captains.
1. 40
2. 35
3. 45
4. 50

Q:26 Which two digits and signs can be interchanged to balance the given equation?
49 − 4 × 144 ÷ 8 + 256 = 308
1. 308 and 49; + and −
2. 256 and 4; = and ×
3. 144 and 256; × and −
4. 8 and 4; + and ×

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Q:27 A series is given with two terms missing. Choose the correct alternatives from the given ones that will complete the series.

145, _ _ _ _, 158, 162, 171, 175, _ _ _ _, 188, 197

1. 154, 179
2. 149, 184
3. 154, 184
4. 149, 179

Q:28 Select the set in which the numbers are related in the same way as the numbers of the following set.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g., 13 – Operations on 13 such as adding/ 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)

(39, 117, 585)

(62, 186, 930)

1. (73, 219, 365)
2. (31, 93, 155)
3. (54, 162, 810)
4. (46, 138, 590)

Q:29 Four letter clusters have been given, out of which three are alike in some manner and one is different. Select the different one.

1. PTL
2. FJC
3. BFX
4. WAS

Q:30 Select the option that is related to the third term in the same way as the second term is related to first term and the sixth term is related to the fifth term.

74 : 222 :: 62 : ? :: 38 : 190

1. 186
2. 248
3. 310
4. 378

Q:31 'A + B' means 'A is the father of B'.

'A – B' means 'A is the brother of B'.

'A ÷ B' means 'A is the daughter-in-law of B'.
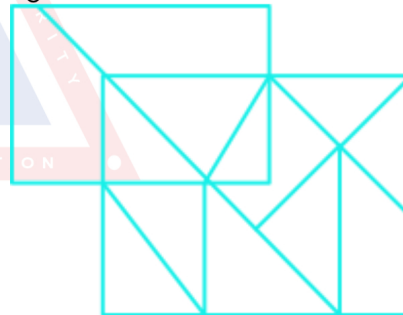
'A × B' means 'A is married to B'.

In the given expression 'L × M + V – B ÷ S × D + Z', if D has only one child, then how is Z related to L?

1. Son
2. Son-in-law
3. Grandson
4. Cannot be determined

Q:32 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1- Shiver
2- Shine
3- Shillong
4- Ship
5- Shimla
6- Shipper

1. 3, 2, 5, 4, 6, 1
2. 3, 5, 2, 4, 6, 1
3. 3, 2, 5, 4, 6, 1
4. 3, 5, 2, 4, 1, 6

Q:33 How many triangles are there in the given figure?

1. 12
2. 13
3. 10
4. 9

Q:34 Which letter cluster will complete the given series?

JSEN, IWBO, HAYP, GEVQ, FISR, _ _ _ _ _

1. EHPQ
2. EMPS
3. EHVS
4. EMQS

Q:35 In a certain code language, 'DAMP' is coded as '12', and 'SKIT' is coded as '1'. How will 'RISK' be coded in that language?
1. 9
2. 7
3. 10
4. 19

Q:36 Read the given statements and conclusions carefully. If the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow (s) from the statements.

Statements:
I. Some A is B
II. No B is C
III. All C is D

Conclusions:
I. Some A is not C.
II. Some B is D.
III. Some A is D.
1. Only Conclusion I and II follow
2. Only Conclusion II and III follow
3. Only Conclusion I and III follow
4. Only Conclusion I follows

Q:37 In the following question, four number pairs are given. In each pair, the number on the left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three pairs are similar on the basis of the same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g., 13 - Operations on 13 such as adding/ 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)
1. 54 - 111
2. 73 - 149
3. 66 - 125
4. 47 - 97

Q:38 Which among the following word cannot be formed using the letters of the given word only once?

INCREDIBILITY
1. DIRECT
2. TRENDY
3. BRIDGE
4. CREDIT

Q:39 Choose the alternative that best replaces the question marks (?) in the given figure.

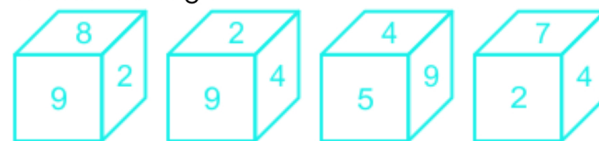| A	M	G
W	I	C
D	?	J

1. P
2. S
3. R
4. T

Q:40 Choose the correct order of signs from the four options given below, so as to make the equations right.
17 _ 3 _ 6 _ 45
1. ×, −, =
2. ×, =, −
3. −, ×, =
4. =, −, ×

Q:41 Four different positions of the same dice are shown. Find the number on the face opposite to the one having 9.

1. 4
2. 2
3. 7
4. 8

Q:42 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

(I)

(II)

(III)

(IV)

1. I
2. II
3. III
4. IV

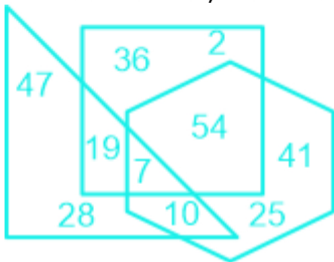**Q:43** Select the option that is embedded in the given figure(rotation is NOT allowed).

1. I
2. II
3. III
4. IV

Q:44 In the following Venn diagram, Square represents persons who completed Polytechnic, Hexagon represents persons who completed MBA and Triangle represents persons who completed BE. How many persons completed both BE and MBA but not Polytechnic?

1. 10
2. 35
3. 26
4. 17

Q:45 Four letter pairs have been given, out of which three are alike in some manner and one is different. Select the different letter pair.
1. BYUF
2. DWSH
3. ZAWD
4. UFTE

Q:46 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.
Statements:
I. All L are M
II. No M is N
III. Some N is D
Conclusions:
I. No L is N
II. Some M is D
III. Some D is not L
1. Only Conclusion I follows
2. Only Conclusion II follows
3. Only Conclusion III follows
4. Only Conclusion I and III follow

Q:47 Select the number that can replace the question mark (?) in the following series.
4, 25, 121, ? , 529, 961
1. 289
2. 361
3. 324
4. 256

Q:48 Select the letter/number/word pair in which the two letters/numbers/words are related in the same way as the two letters/numbers/words of the following letter/number/word pair.
20 : 30 :: 74 : 111 :: 26 : ?
1. 73
2. 39
3. 36
4. 43

Q:49 Select the option that is related to the third number in the same way as the second number is related to the first number.

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56 : 30 :: 78 : ?
1. 41
2. 53
3. 50
4. 61

Q:50 A series is given with one term missing. Choose the correct alternatives from the given ones that will complete the series.

17, 28, 41, ? , 77, 100
1. 58
2. 56
3. 49
4. 51

Q:51 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'.

The temperature of Delhi is higher than Laddakh.
1. higher than those of Laddakh
2. No Improvement
3. higher to that of Laddakh
4. higher than that of Laddakh

Q:52 Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No Improvement'.

If I were rich, I would have bought a bungalow in Mumbai.
1. bought
2. No Improvement
3. would buy
4. will have bought

Q:53 Select the most appropriated option to fill in the blank.

The _ _ _ _ _ _ _ _ _ _ crowd gave their newly elected leader a magnificent welcome.
1. noisy
2. jubilant
3. troublesome
4. melancholic

Q:54 Fill in the blank with the most appropriate word.

Parrots are birds of all colours that usually _ _ _ _ _ _ _ _ _ _ from a warm habitat.
1. are originating
2. originates
3. originate
4. originated

Q:55 Select the correct passive form of the given sentence.

She never abused anyone.
1. No one was ever abused by her.
2. No one was ever being abused by her.
3. No one is ever abused by her.
4. No one had ever been abused by her.

Q:56 Select the correct indirect form of the given sentence.

Radhika said to me, "Can you do a task for me?'
1. Radhika asked me if I can do a task for her.
2. Radhika asked me if could I do a task for her.
3. Radhika asked me that I could do a task for her.
4. Radhika asked me if I could do a task for her.

Q:57 Select the most appropriate meaning of the given idiom.

All ears
1. Smiling
2. Silent
3. Restless
4. Attentive

Q:58 Select the most appropriate meaning of the given idiom.

Maiden speech
1. Long speech
2. First speech
3. Brief speech
4. Emotional speech

Q:59 Select the INCORRECTLY spelt word.
1. Accurate
2. Accustomed
3. Achieve
4. Achievemant

Q:60 Select the INCORRECTLY spelt word.

1. Acumen
2. Accurate
3. Acoustics
4. Acquiasce

Q:61 Select the most appropriate SYNONYM of the given word.
PODIUM
1. Arena
2. Tripod
3. Plentiful
4. Dais

Q:62 Select the most appropriate SYNONYM of the given word.
COPIOUS
1. Vast
2. Identical
3. Plentiful
4. Messy

Q:63 Select the most appropriate ANTONYM of the given word.
WHOLESOME
1. Complete
2. Unhealthy
3. Incomprehensible
4. Few

Q:64 Select the most appropriate ANTONYM of the given word.
ACQUITTED
1. Convicted
2. Suspected
3. Argued
4. Pleaded

Q:65 Select the word which means the same as the group of words given.
Use of more words than are needed to express the meaning
1. Circumlocution
2. Verbatim
3. Ventriloquism
4. Pleonasm

Q:66 Select the word which means the same as the group of words given.
The power of reading the thoughts of others
1. Psychopathy
2. Telecommunication
3. Psychology
4. Telepathy

Direction 67 - 71 : In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.
Child marriage robs girls _ _ _ _ _(1)_ _ _ _ _ their childhood and threatens their lives and health. Girls who marry before 18 _ _ _ _(2)_ _ _ _ _ more likely to experience domestic violence and _ _ _ _ _(3)_ _ _ _ _ likely to remain in school. They have worse economic and health outcomes _ _ _ _(4)_ _ _ _ _ their unmarried _ _ _ _(5)_ _ _ _ _.

Q:67 Select the most appropriate option to fill in the blank number (1).
1. of
2. with
3. by
4. from

Q:68 Select the most appropriate option to fill in the blank number (2).
1. are
2. is
3. were
4. was

Q:69 Select the most appropriate option to fill in the blank number (3).
1. least
2. less
3. last
4. little

Q:70 Select the most appropriate option to fill in the blank number (4).
1. to
2. then
3. than
4. from

Q:71 Select the most appropriate option to fill in the

blank number (5).
1. matches
2. girls
3. friends
4. peers

Q:72 Given below are four jumbled sentences. Select the option that gives their correct order.
A: 'In Buddhism, dying is important.
B: If there is birth, then there must be death also.
C: The Buddha said, "Anything that is born must die."
D: It's as important as living because birth and death inter-are.
1. ACBD
2. DCBA
3. ADCB
4. DABC

Q:73 Given below are four jumbled sentences. Select the option that gives their correct order.
A: All plants and animals must have water to survive.
B: If there was no water there would be no life on earth.
C: Water is one of the most important substances on earth.
D: Apart from drinking it to survive, people have many other uses for water.
1. DCBA
2. CDBA
3. DABC
4. CABD

Q:74 In the sentence identify the segment which contains the grammatical error.
Many pregnant woman in India cannot go for check-ups as there is no transport to take them to health centres, especially in remote areas.
1. transport to take them to health
2. Many pregnant woman in India cannot
3. centres, especially in remote areas
4. go for check-ups as there is no

Q:75 In the sentence identify the segment which contains the grammatical error.
I don't feel, Nishi is as faster as Nipu, so she is

not competent for this race.
1. as faster as Nipu, so
2. she is not
3. I don't feel, Nishi is
4. competent for this race

Q:76 Which country won the title of the CAVA Women's Challenge Cup in June 2023?
1. Bhutan
2. Oman
3. Nepal
4. India

Q:77 Who named the Indus civilisation the 'Harappan civilization' after the name of the Indus site of Harappa?
1. Sir ME M Wheeler
2. Dr S R Rao
3. Sir John Marshall
4. Dr Sankhalia

Q:78 Which Article of Indian Constitution gives the procedure for impeachment of the President?
1. Article 42
2. Article 59
3. Article 48
4. Article 61

Q:79 The book 'Delhi is not far' is written by which of the following authors?
1. Arundhati Roy
2. Khuswant Singh
3. Anita Desai
4. Ruskin Bond

Q:80 A retired judge of the High Court is not allowed to _ _ _ _ _ _ _ _.
1. Practice in the High Court of other states
2. Practice in the same High Court he had retired
3. Practice in the Supreme Court
4. All of the above

Q:81 Which of the following is the function of Nervous tissue?
1. Communication
2. Protection

3. Controls movement
4. Binding body parts together

Q:82 Gandhiji termed _ _ _ _ _ _ _ _ _ _ as a 'post-dated cheque in a crashing bank'.
1. Cabinet Mission
2. Cripps Mission
3. Mountbatten Plan
4. Simon Commission

Q:83 _ _ _ _ _ _ _ _ _ _ _ Island is the only active volcano in India.
1. Barren
2. Oyster rock
3. Viper
4. Havelock

Q:84 Who was re-elected as Turkey's president in June 2023?
1. Recep Tayyip Erdogan
2. Imran Khan
3. Shaikh Rashid
4. None of the above

Q:85 Bahadur Shah, the last Mughal Emperor, was exiled to ……. for fear of another rebellion.
1. Mysore
2. Carnatic
3. Awadh
4. Burma

Q:86 Which symbol is used for the Canadian currency?
1. $
2. €
3. ¥
4. £

Q:87 Global Day of Parents is observed on _ _ _.
1. 1 June
2. 2 June
3. 3 June
4. 4 June

Q:88 In a diamond, each carbon atom is bonded to _ _ _ _ _ _ _ _ _ _ _.

1. two other carbon atoms
2. three other carbon atoms
3. four other carbon atoms
4. five other carbon atoms

Q:89 Who won the Nobel Peace Prize for Physics in October 2022?
1. Syukuro Manabe
2. John F. Clauser
3. Giorgio Parisi
4. Klaus Hasselmann

Q:90 In June 2023, which bank unveiled its new logo?
1. YES Bank
2. SBI
3. HDFC
4. AXIS Bank

Q:91 Which one of the following was the first Black Woman to appear on a US coin?
1. Maya Angelou
2. Kamala Harris
3. Megan Foxx
4. Angelina Jolie

Q:92 Who among the following spent four years (1615-1619) at the Mughal Court?
1. Father Pierre Du Jarric
2. Father Monsarratte
3. Sir Thomas Roe
4. John de Britto

Q:93 What is the size of the image formed by a plane mirror with respect to the object?
1. Equal
2. Greater
3. Smaller
4. None of these

Q:94 In June 2023, the India-EU Contact Conference was held in which state?
1. Uttar Pradesh
2. Punjab
3. Bihar
4. Meghalaya

Q:95 Out of the following, which mountain range runs between the Narmada and Tapi rivers?
1. Satapura range
2. Ajanta range
3. Shivalik range
4. Vindhya range

Q:96 Jitender Kumar is associated with which of the following sports?
1. Boxing
2. Wrestling
3. Archery
4. Shooting
5. Sprinter

Q:97 Which National Highway connects Pune to Machilipatnam?
1. NH-7
2. NH-8
3. NH-9
4. NH-10

Q:98 A Hindu festival celebrated by the Tamil community that falls in Tamil Solar Month is called?
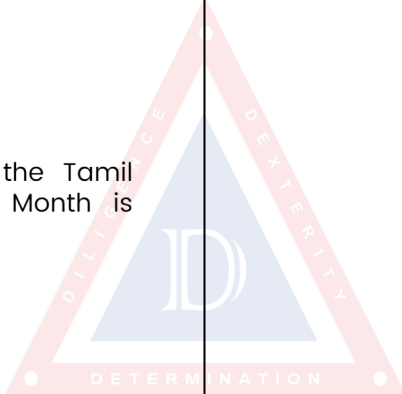1. Karaga
2. Bihu
3. Onam
4. Thaipusam

Q:99 In which of the following market forms, the market is dominated by a single seller?
1. Oligopoly
2. Monopoly
3. Perfect competition
4. None of these

Q:100 Pernicious anaemia is caused by the deficiency of vitamin _ _ _ _ _.
1. B2
2. B6
3. B1
4. B12

Answer Key

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

Answers and Solutions

Q:1 The correct answer is **option 4** i.e. **9 $\frac{2}{13}$ days.**
Let, the total work be 20 times L.C.M. of $(12, 15)$ = (20×120) = 2400 units
12 Women can do the work in 1 day = 2400/20 = 120 units
1 Woman would do in 1 day = 120/12 = 10 units
15 Men can do the work in 1 day = 2400/20 = 120 units
1 Man would do in 1 day = 120/15 = 8 units
18 Women and 10 men would do = (18×10) + (10×8)
$\Rightarrow (180 + 80)$ = 260 units
Number of days = 2400/260 = 9 $\frac{2}{13}$ days

Q:2 The correct answer is **Option 1** i.e. **10.12%.**
Principal (P) = Rs. 25000
Time (T) = 2 years
Rate (R) = ?
Simple Interest – Compound Interest = 256
$\Rightarrow PRT/100 - [P(1 + R/100)^T - P] = 256$
$\Rightarrow P(R/100)^2 = 256$
$\Rightarrow 25000(R/100)^2 = 256$

$\Rightarrow 25R^2/10 = 256$
$\Rightarrow R^2 = 2560/25$
$\Rightarrow R^2 = 102.4$
$\Rightarrow R = 10.12\%$

Q:3 The correct answer is **option 4** i.e. **Rs 41500.**
Number of shares bought in January = 22000/20 = 1100
Number of shares bought in February = 16500/15 = 1100
Number of shares bought in March = 18000/30 = 600
Total number of shares = $(1100 + 1100 + 600)$ = 2800
The amount for it was sold in April = (2800×35) = 98000
Profit made = 98000 − 22000 − 16500 − 18000 = Rs. 41500

Q:4 The correct answer is **option 2** i.e. **250.**
Number of shares bought = Amount invested/Value of share at that moment
In January, number of shares bought = 15000/20 = 750
In February, number of shares bought = 21000/15 = 1400
Total number of shares bought originally = $(750 + 1400)$ = 2150
If all money was invested in February
Total number of shares = $(21000 + 15000)/15$ = 2400
The difference in the number of shares = $(2400 − 2150)$ = 250

Q:5 The correct answer is **Option 3** i.e. **−873.**
$\sqrt{840.99} + 17.33^3 - \sqrt{144.44} - 21.11^3 = ? + 23.33^3 - 25.05^3$
Since we have to find the approximate value so, the given equation can be written as
$\Rightarrow \sqrt{841} + 17^3 - \sqrt{144} - 21^3 = ? + 23^3 - 25^3$
Now, using the BODMAS rule
Hence,
$\Rightarrow 29 + 4913 - 12 - 9261 = ? + 12167 - 15625$
$\Rightarrow 4942 - 9273 = ? - 3458$
$\Rightarrow - 4331 = ? - 3458$
$\Rightarrow ? = - 873$

Q:6 The correct answer is **option 2** i.e. **3036 cm^2.**

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As we know the total surface area of a hollow cylinder is
$\Rightarrow 2 \times 22/7 \times (R + r) \times h + 2 \times 22/7 \times (R^2 - r^2)$
Where R = outer radius, r = inner radius
Since, R = 12 cm
Outer diameter = 24 cm
Hence, inner diameter = 22 cm
$\Rightarrow$ r = 11 cm
Substituting in the equation above we get
TSA = 3036 cm^2

Q:7 The correct answer is **Option 3** i.e. **21.**
Let the number of remaining vehicles be x
Total number of vehicles = (x + 42)
ATQ –
$\Rightarrow 12000(x + 42) = 42(15000) + x(6000)$
$\Rightarrow 12000x + 504000 = 630000 + 6000x$
$\Rightarrow 12000x - 6000x = 630000 - 504000$
$\Rightarrow 6000x = 126000$
$\Rightarrow x = 21$

Q:8 The correct answer is **option 3** i.e. **1 hour and 40 minutes.**
The relative speed is the sum of their speed if they are moving toward each other
Meeting time = Distance between them/Relative speed
Given, the sum of the speed of the two trains = $(3/5) \times 1250$ = Their relative speed
Distance between stations = 1250 km
Meeting time = $1250/\{(3/5) \times 1250\}$ = 5/3 hour
$\Rightarrow (1 + 2/3)$ hour = 1 hour and 40 minutes

Q:9 The correct answer is **option 1** i.e. **221.**
Let the number be 17x and 17y
So, H.C.F. = 17 and L.C.M = 17xy
$\Rightarrow 17xy = 714$
$\Rightarrow xy = 42$
Possible pairs = $(6 \times 7), (14 \times 3), (21 \times 2), (42 \times 1)$
But the number is 3 digits
So, Only (6×7) is possible
Now,
Number = 17x and 17y
$\Rightarrow 17(6)$ and $17(7)$
$\Rightarrow 102$ and 119
Hence, sum of the number = (102 + 119) = 221

Q:10 The correct answer is **Option 1** i.e. **1.2%.**
Let, the CP of the motor car be Rs 100
SP = 100 – (8% of 100)
$\Rightarrow 100 - (100/100) \times 8 = (100 - 8)$ = Rs. 92
Now, he gives a 20% discount on MRP
80% of MRP = Rs 92
MRP = $(92/80) \times 100$ = Rs 115
If he had offered a discount of only 12%
Then, SP = 115 – (12% of 115)
$\Rightarrow 115 - (115/100) \times 12$
$\Rightarrow (115 - 13.8)$ = Rs. 101.2
Hence, profit = (101.2 –100) = Rs 1.2
Therefore, profit % = $(1.2/100) \times 100$ = 1.2%

Q:11 The correct answer is **option 4** i.e. **26 years.**
Let, the Kishore and Sagar 6 years ago ages are 6x and 5x respectively
A/q-
$(6x + 12)/(5x + 12) = 9/8$ [–6 years to +6 years = 12 years]
$\Rightarrow 48x + 96 = 45x + 108$
$\Rightarrow 48x - 45x = 108 - 96$
$\Rightarrow 3x = 12$
$\Rightarrow x = 12/3 = 4$
Sagar's age 6 years ago = 5x = (5 × 4) years = 20 years
Present age of Sagar = (20 + 6) = 26 years

Q:12 The correct answer is **option 3** i.e. **25%.**
Let the length of parallel sides be a and b
Let the altitude be h
Original area = ½ × (a + b) × h
Changed area = ½ × (0.8a + 0.8b) × h' [∵ 20% decrease]
Both have the same area
$\Rightarrow ½ \times (a + b) \times h = ½ \times (0.8a + 0.8b) \times h'$
$\Rightarrow h = 0.8 h'$
$\Rightarrow h' = h/0.8 = 1.25 h$ = 25% increase

Q:13 The correct answer is **option 2** i.e. **7/9 < 11/14 < 50/63 < 101/126.**
By making a common denominator of every fraction,
$\Rightarrow$ L.C.M(9, 63, 14, 126) = 126
$\Rightarrow 7/9 \times 14/14 = 98/126$
$\Rightarrow 50/63 \times 2/2 = 100/126$
$\Rightarrow 11/14 \times 9/9 = 99/126$

⇒ 98 < 99 < 100 < 101
⇒ 7/9 < 11/14 < 50/63 < 101/126

Q:14 The correct answer is **Option 1** i.e. **2363.**
1140.75 – 2356.996 – 1554.8 + 2 × 2566.7 = ?
⇒ ? = 1141 – 2357 – 1555 + 2(2567)
⇒ ? = 1141 – 2357 – 1555 + 5134
⇒ ? = (1141 + 5134) – (2357 + 1555)
⇒ ? = 6275 – 3912
⇒ ? = 2363

Q:15 The correct answer is **option 2** i.e. **4.**
Since, $x = \frac{\sqrt{3}+1}{\sqrt{3}-1}$, and xy = 1,

So, y must be equal to $y = \frac{\sqrt{3}-1}{\sqrt{3}+1}$

Hence,
⇒ $x + y = \frac{\sqrt{3}+1}{\sqrt{3}-1} + \frac{\sqrt{3}-1}{\sqrt{3}+1}$

$$x + y = \frac{(\sqrt{3}+1) \times (\sqrt{3}+1) + (\sqrt{3}-1) \times (\sqrt{3}-1)}{(\sqrt{3}-1) \times (\sqrt{3}+1)}$$

$$x + y = \frac{3+1+2\sqrt{3}+3+1-2\sqrt{3}}{3-1} = 4$$

Q:16 The correct answer is **option 1** i.e. $2\frac{1}{4}$.
Rohit can complete the assignment in = 12 min
Aman can complete the assignment in = 6 min
Vijay can complete the assignment in = 24 min
L.C.M(12, 6, 24) = 24
The efficiency of Rohit = 24/12 = 2 unit
The efficiency of Aman = 24/6 = 4 unit
The efficiency of Vijay = 24/24 = 1 unit
Vijay will help Rohit,
Work done by (Rohit + Vijay) = (2 + 1) = 3 units
Rohit and Vijay work for 5 minutes only = 3 × 5 = 15 units
Remaining work = (24 - 15) = 9 units
Now, Aman will complete the remaining work
⇒ 9/4 = $2\frac{1}{4}$

Q:17 The correct answer is **option 2** i.e. **76º.**
Since, PR = PS
So, angle R = angle S = x
Since, PS = QS

So, angle Q = angle P = y
In ∆PSR,
⇒ x + y = 114
So, 2x + 2y = 228.................(1)
And, y + 180 − 2x + 114 = 180
⇒ 2x = y + 114.................(2)
From equation (1) and equation (2)
⇒ y + 114 + 2y = 228
⇒ 3y = 114
⇒ y = 38
So, x = (114 − 38) = 76º

Q:18 The correct answer is **Option 2** i.e. **28 cm.**
Suppose 'r' is the radius of the sphere
Since the surface area of the sphere is 616 cm²
4πr² = 616
⇒ 4 × 22/7 × r² = 616
⇒ r² = 49
⇒ r = 7 cm
The diameter of the sphere is two times the side of the square
So,
Side of the square = (7 × 2)/2 = 7 cm
Hence,
Perimeter of the square = (4 × 7) = 28 cm

Q:19 The correct answer is **option 3** i.e. **Rs.2.**
Let he had x amount initially
The amount is given to A = x/2
Remaining amount = (x - x/2) = x/2
The amount is given to B = x/4
Remaining amount = (x/2 - x/4) = x/4
The amount is given to C = x/8
Remaining amount = (x/4 - x/8) = x/8
The amount is given to D = x/16
Remaining amount = (x/8 - x/16) = x/16
The amount is given to E = x/32
Remaining amount = (x/16 - x/32) = x/32
⇒ x/32 = 1
⇒ x = Rs.32
The amount is given to D = x/16
⇒ 32/16 = Rs.2

Q:20 The correct answer is **Option 2** i.e. **34.44%.**
Cost price = Rs.400 and Profit = 10%
So, SP = (400 + (10/100) × 400) = (400 + 40) =

Rs.440
According to the question,
10% increase in SP and, a 10% decrease in CP
After a 10% increase in SP
$\Rightarrow (440 + (10/100)\,440) = (440 + 44) = $ Rs.484
After a 10% decrease in CP
$\Rightarrow (400 - (10/100)\,400) = (400 - 40) = $ Rs.360
New CP = Rs.360 and, New SP = Rs.484
Profit = $[(484 - 360)/360] \times 100 = (124/360) \times 100 = 34.44\%$

Q:21 The correct answer is **option 1** i.e. **180√3 cm^2.**
Area of triangle = $(1/2) \times \sin\theta \times$ product of adjacent sides
Area of triangle = $(1/2) \times \sin 60^\circ \times 24 \times 30$
$\Rightarrow (1/2) \times (\sqrt{3}/2) \times 24 \times 30 = 180\sqrt{3}$ cm^2

Q:22 The correct answer is **option 1** i.e. **15 cm^2.**
Given-> BD = 15 cm, AL = 4 cm, and CM = 5 cm
Area of $\triangle$BCD = $1/2 \times 15 \times 6 = 15 \times 3 = 45$ cm^2
Area of $\triangle$ABD = $1/2 \times 15 \times 4 = 15 \times 2 = 30$ cm^2
Hence,
Area of $\triangle$ BCD - Area of $\triangle$ ABD = $(45 - 30) = 15$ cm^2

Q:23 The correct answer is **option 2** i.e. **7°.**
AOBP is a quadilateral
So,
$\Rightarrow \angle PAO + \angle PBO = 180^\circ$
$\Rightarrow \angle AOB + \angle BPA = 180^\circ$
$\Rightarrow \angle AOB + 33^\circ = 180^\circ$
$\Rightarrow \angle AOB = 147^\circ$
Value of $\sqrt{\frac{1}{3} \times \angle AOB}$
$\Rightarrow \sqrt{\frac{1}{3} \times 147} = \sqrt{49} = 7$

Q:24 The correct answer is **option 2** i.e. **tan 40° + 2 tan 10°.**
$\Rightarrow \tan 50^\circ = \tan(40^\circ + 10^\circ)$
$\Rightarrow \tan 50^\circ = (\tan 40^\circ + \tan 10^\circ)/(1 - \tan 40^\circ \tan 10^\circ)$
$\Rightarrow \tan 50^\circ (1 - \tan 40^\circ \tan 10^\circ) = \tan 40^\circ + \tan 10^\circ$
$\Rightarrow \tan 50^\circ - \tan 50^\circ \tan 40^\circ \tan 10^\circ = \tan 40^\circ + \tan 10^\circ$
$\Rightarrow \tan 50^\circ - \tan(90^\circ - 40^\circ) \tan 40^\circ \tan 10^\circ = \tan 40^\circ + \tan 10^\circ$
$\Rightarrow \tan 50^\circ - \cot 40^\circ \tan 40^\circ \tan 10^\circ = \tan 40^\circ + \tan 10^\circ$
$\Rightarrow \tan 50^\circ - \tan 10^\circ = \tan 40^\circ + \tan 10^\circ$
$\Rightarrow \tan 50^\circ = \tan 40^\circ + \tan 10^\circ + \tan 10^\circ$
$\Rightarrow \tan 50^\circ = \tan 40^\circ + 2 \tan 10^\circ$

Q:25 The correct answer is **option 3** i.e. **45.**
Sum of the age of RCB players = $11 \times 22 = 242$
Average of 10 players other than the captain
New Sum = $10 \times 17.5 = 175$
Hence, the age of the captain is = $(242 - 175) = 67$
Sum of the age of LSG players = $11 \times 18 = 198$
Average age of 10 players other than the captain
New Sum = $10 \times 17.5 = 175$
Hence, the age of the captain = $(198 - 175) = 23$
Average age of both captains = $(67 + 23)/2 = 45$

Q:26 The correct answer is **Option 3** i.e. **144 and 256; × and -.**
Given Equation: $49 - 4 \times 144 \div 8 + 256 = 308$
Interchanging the digits and signs given in option '1', we get:
$308 + 4 \times 144 \div 8 - 256 = 49$
$308 + 4 \times 18 - 256 = 49$
$308 + 72 - 256 = 49$
$380 - 256 = 49$
$124 \neq 49$
Interchanging the digits and signs given in option '2', we get:
$49 - 256 = 144 \div 8 + 4 \times 308$
$-207 = 18 + 4 \times 308$
$-207 = 18 + 1232$
$-207 \neq 1250$
Interchanging the digits and signs given in option '3', we get:
$49 \times 4 - 256 \div 8 + 144 = 308$
$49 \times 4 - 32 + 144 = 308$
$196 - 32 + 144 = 308$
$340 - 32 = 308$
$308 = 308$
Interchanging the digits and signs given in option '4', we get:
$49 - 8 + 144 \div 4 \times 256 = 308$
$49 - 8 + 36 \times 256 = 308$
$49 - 8 + 9216 = 308$
$9265 - 8 = 308$
$9257 \neq 308$

So, only after interchanging the digits and signs given in option '3', we can get a balance equation. Hence, **144 and 256; × and −** is the correct answer.

Q:27 The correct answer is **Option 2** i.e. **149, 184.**
The logic followed here is:
145 + 4 = **149**
149 + 9 = 158
158 + 4 = 162
162 + 9 = 171
171 + 4 = 175
175 + 9 = **184**
184 + 4 = 188
188 + 9 = 197
'149, 184' will complete the series.
Hence, **149, 184** is the correct answer.

Q:28 The correct answer is **Option 3** i.e. **(54, 162, 810).**
The pattern followed here is:
The three times of the 1st number is the 2nd number and the five times of the 2nd number is the 3rd number.
In (39, 117, 585),
1st number = 39, 2nd number = (39 × 3) = 117, 3rd number = (117 × 5) = 585
In (62, 186, 930),
1st number = 62, 2nd number = (62 × 3) = 186, 3rd number = (186 × 5) = 930
In option '1': (73, 219, 365)
1st number = 73, 2nd number = (73 × 3) = 219, 3rd number = (219 × 5) = 1095 ≠ 365
In option '2': (31, 93, 155)
1st number = 31, 2nd number = (31 × 3) = 93, 3rd number = (93 × 5) = 465 ≠ 155
In option '4': (46, 138, 590)
1st number = 46, 2nd number = (46 × 3) = 138, 3rd number = (138 × 5) = 690 ≠ 590
All combination of numbers doesn't follow this pattern except for
In option '3': (54, 162, 810)
1st number = 54, 2nd number = (54 × 3) = 162, 3rd number = (162 × 5) = 810
Hence, **(54, 162, 810)** is the correct answer.

Q:29 The correct answer is **Option 2** i.e. **FJC.**
The pattern followed here is:

The 2nd letter is the 4th succeeding letter of the 1st letter and the 3rd letter is the 4th preceding letter of the 1st letter as per the English Alphabetical series.
In option '1', 1st letter = P, 2nd letter = P + 4 = T, 3rd letter = P − 4 = L
In option '2', 1st letter = F, 2nd letter = F + 4 = J, 3rd letter = F − 4 = B ≠ C
In option '3', 1st letter = B, 2nd letter = B + 4 = F, 3rd letter = B − 4 = X
In option '4', 1st letter = W, 2nd letter = W + 4 = A, 3rd letter = W − 4 = S
Hence, **FJC** is the correct answer.

Q:30 The correct answer is **Option 2** i.e. **248.**
The logic followed here is:
The absolute difference between the 1st and 2nd digits of the 1st number is multiplied by the 1st number to get the 2nd number.
1st number = 74, 2nd number = (74 × |7 − 4|) = (74 × 3) = 222
Similarly, the absolute difference between the 1st and 2nd digits of the 5th number is multiplied by the 5th number to get the 6th number.
5th number = 38, 6th number = (38 × |3 − 8|) = (38 × 5) = 190
Similarly,
3rd number = 62, 2nd number = (62 × |6 − 2|) = (62 × 4) = 248
Hence, **248** is the correct answer.

Q:31 The correct answer is **Option 2** i.e. **Son-in-law.**
After decoding the code, we get:
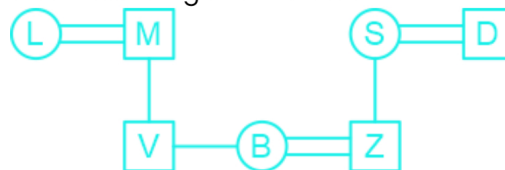L × M means L is married to M
M + V means M is the father of V
V − B means V is the brother of B
B ÷ S means B is the daughter-in-law of S
S × D means S is married to D
D + Z means D is the father of Z
If D has only one child, then the family tree formed after decoding the code is:

So, Z is the son-in-law of L.
Hence, **Son-in-law** is the correct answer.

Q:32 The correct answer is **Option 2** i.e. **3, 5, 2, 4, 6, 1.**

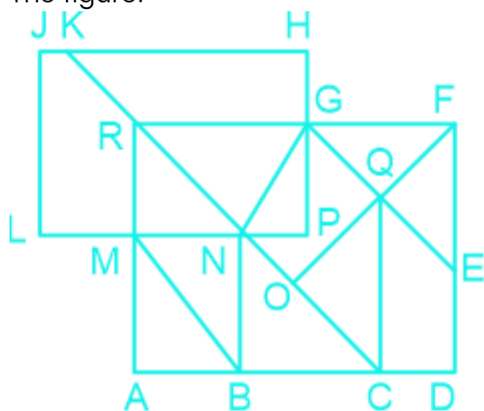The correct dictionary order will be:

3- Shillong, 5- Shimla, 2- Shine, 4- Ship, 6- Shipper, 1- Shiver

So, (3, 5, 2, 4, 6, 1) represents the correct dictionary order.

Hence, **3, 5, 2, 4, 6, 1** is the correct answer.

Q:33 The correct answer is **Option 1** i.e. **12.**
The figure:

Triangle: ABM, BMN, RMN, RAC, BNC, RNG, NPG, QOC, QEF, QFG, EFG, and ROF.

So, there are 12 triangles in the given figure.

Hence, **12** is the correct answer.

Q:34 The correct answer is **Option 2** i.e. **EMPS.**
The pattern followed here is:

The 1st letter of each letter cluster, J – 1 = I, I – 1 = H, H – 1 = G, G – 1 = F, F – 1 = E

The 2nd letter of each letter cluster, S + 4 = W, W + 4 = A, A + 4 = E, E + 4 = I, I + 4 = M

The 3rd letter of each letter cluster, E – 3 = B, B – 3 = Y, Y – 3 = V, V – 3 = S, S – 3 = P

The 4th letter of each letter cluster, N + 1 = O, O + 1 = P, P + 1 = Q, Q + 1 = R, R + 1 = S

So, 'EMPS' will complete the series.

Hence, **EMPS** is the correct answer.

Q:35 The correct answer is **Option 2** i.e. **7.**
The logic followed here is as follows:

The words are coded as the absolute difference of the positional value of the 1st and last letters as per the English Alphabetical series.

As 'DAMP' is coded as '12'

Code = |4 − 16| = 12
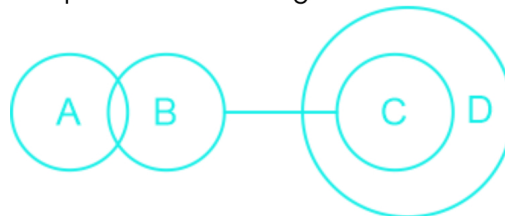'SKIT' is coded as '1'
Code = |19 − 20| = 1
Similarly, for 'RISK':
Code = |18 − 11| = 7
As 'DAMP' is coded as '12' and 'SKIT' is coded as '1' in the same way 'RISK' is coded as '7'.
Hence, **7** is the correct answer.

Q:36 The correct answer is **Option 4** i.e. **Only Conclusion I follows**
The possible Venn diagram is

Conclusions:
I. Some A is not C. → **True** (As some A is B and no B is C so some A is not C is true.)
II. Some B is D. → **False** (As there is no direct relation given between B and D.)
III. Some A is D. → **False** (As there is no direct relation given between A and D.)
Clearly, the Conclusion I follow.

Hence, the correct answer is **Only Conclusion I follows.**

Q:37 The correct answer is **Option 3** i.e. **66 – 125.**
The logic followed here is:

The 1st number is multiplied by 2 and then 3 is added to it to get the 2nd number.

In option '1', {(54 × 2) + 3} = {108 + 3} = 111
In option '2', {(73 × 2) + 3} = {146 + 3} = 149
In option '3', {(66 × 2) + 3} = {132 + 3} = 135 ≠ 125
In option '4', {(47 × 2) + 3} = {94 + 3} = 97
Hence, **66 – 125** is the correct answer.

Q:38 The correct answer is **Option 3** i.e. **BRIDGE.**
Given word: INCREDIBILITY

DIRECT can be formed using the letters of the word INCREDIBILITY.

TRENDY can be formed using the letters of the word INCREDIBILITY.

BRIDGE cannot be formed using the letters of the given word, as there is no 'G' in INCREDIBILITY.

CREDIT can be formed using the letters of the word INCREDIBILITY.
Hence, **BRIDGE** is the correct answer.

Q:39 The correct answer is **Option 1** i.e. **P.**
The pattern followed here is:
The 2nd letter in each row is the 12th succeeding letter of the 1st letter of that row. The 3rd letter in each row is the 6th preceding letter of the 2nd letter of that row as per the English Alphabetical series.
For Row 1:
1st letter = A, 2nd letter = A + 12 = M, 3rd letter = M – 6 = G
For Row 2:
1st letter = W, 2nd letter = W + 12 = I, 3rd letter = I – 6 = C
Similarly,
For Row 3:
1st letter = D, 2nd letter = D + 12 = P, 3rd letter = P – 6 = J
So, 'P' will come in place of a question mark.
Hence, **P** is the correct answer.

Q:40 The correct answer is **Option 1** i.e **×, –, =**
Given: 17 _ 3 _ 6 _ 45
1) ×, –, =
17 × 3 – 6
= 51 – 6
= 45 (This is correct)
2) ×, =, –
17 × 3 = 6 – 45
51 ≠ –39
3) –, ×, =
17 – 3 × 6 = 45
–1 ≠ 45
4) =, –, ×
17 = 3 – 6 × 45
17 ≠ –267

Q:41 The correct answer is **Option 3** i.e. **7**
The given positions of the dies are:
Consider the positions of dice 1 and 3. Face 9 is common for both positions, keep that face constant and move in a clockwise direction, and we get the faces opposite to each other.

| Dice 1 | 9 | 8 | 2 |
| Dice 3 | 9 | 5 | 4 |

The face opposite 2 is 4, face opposite 8 is 5.
Therefore, the face opposite 9 is 7.
Hence, the correct answer is **7.**

Q:42 The correct answer is **Option 3** i.e. **III.**
Figure III is the correct mirror image of the given combination.

$$G^6 FDP_X{}^V \;|\; {}^V{}_X qdꟼ^\partial \mathrm{\Theta}$$

Hence, **III** is the correct answer.

Q:43 The correct answer is **Option 4** i.e. **IV.**
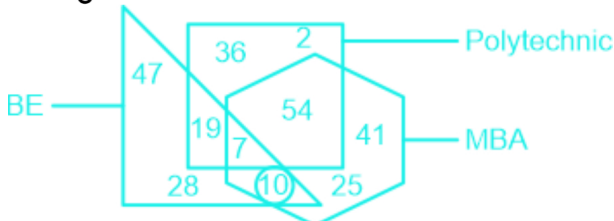Figure (IV) is embedded in the given figure -

Hence, **IV** is the correct answer.

Q:44 The correct answer is **Option 1** i.e. **10.**
The figure:

The number of persons who completed both BE and MBA but not polytechnic = 10
Hence, **10** is the correct answer.

Q:45 The correct answer is **Option 4** i.e. **UFTE.**
The logic:
B- reverse letter = Y
Y–4 = U
U- reverse letter = F
D- reverse letter = W

W-4 = S
S- reverse letter = H
Z- reverse letter = A
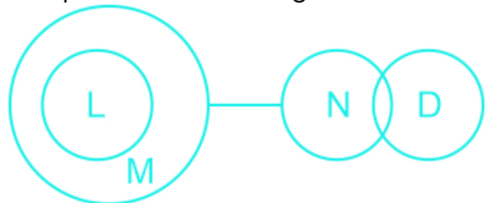A-4 = W
W- reverse letter = D
U- reverse letter = F
F-4 = B
B- reverse letter = Y
Hence, **UFTE** is the correct answer.

Q:46 The correct answer is **Option 4** i.e. **Only Conclusion I and III follow**
The possible Venn diagram is:

Conclusions:
I. No L is N → **True** (As all L is M and no M is N so no L is N is true)
II. Some M is D → **False** (As no direct relation is given between M and D)
III. Some D is not L → **True** (As all L are M and No M is N. Also, Some N are D. So, the part of D that is N is not L)
Hence, the correct answer is **Only Conclusion I and III follow.**

Q:47 The correct answer is **Option 1** i.e. **289.**
The logic:
$(2)^2 = 4$
One prime number is between 2 and 5 i.e. 3.
$(5)^2 = 25$
One prime number is between 5 and 11 i.e. 7.
$(11)^2 = 121$
One prime number is between 11 and 17 i.e. 13.
$(17)^2 = 289$
One prime number is between 17 and 23 i.e. 19.
$(23)^2 = 529$
One prime number is between 23 and 31 i.e. 29.
$(31)^2 = 961$
Hence, **289** is the correct answer.

Q:48 The correct answer is **Option 2** i.e. **39**

20 : 30
Logic = $20 + (20 \div 2)$
= 20 + 10 = 30
74 : 111
Logic = $74 + (74 \div 2)$
= 74 + 37 = 111
Similarly, 26 : ?
Logic = $26 + (26 \div 2)$
= 26 + 13 = 39
So, 26 : 39 is correct.
Hence, **26 : 39** is the correct answer.

Q:49 The correct answer is **Option 1** i.e. **41.**
Given,
$(56 + 4) \div 2 = 60 \div 2 = 30$
Similarly,
$(78 + 4) \div 2 = 82 \div 2 = 41$
Hence, **41** is the correct answer.

Q:50 The correct answer is **Option 1** i.e. **58.**
The logic followed here is consecutive prime numbers are added to get the next number starting from '11'.
17 + 11 = 28
28 + 13 = 41
41 + 17 = **58**
58 + 19 = 77
77 + 23 = 100
Hence, **58** is the correct answer.

Q:51 The correct answer is option 4 i.e. **higher than that of Laddakh.**
- In the given statement the comparison is between '**Temperature of Delhi**' and '**Temperature of Laddalh**.
- We can not use '**Temperature**' in the statement twice hence, we need to replace the second noun with the pronoun '**That/Those**'.
- That of – for singular (**Temperature – singular**).
  Those of – for plural.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-
The temperature of Delhi is **higher than that of**

Laddakh.

Q:52 The correct answer is **option 3** i.e. **would buy.**
- The given statement is in the conditional sentence and the correct structure for this will be:-
- If + subject + v2 + object, subject + **would + v1** + object + other words.
- If + **simple past** + clause with modal verb '**would**'.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-
If I were rich, I **would buy** a bungalow in Mumbai.

Q:53 The correct answer is **option 2** i.e. **jubilant**
The meaning of the given words is:
- **Noisy:** Making a lot of noise
- **Jubilant:** Feeling great happiness or triumph
- **Troublesome:** Causing difficulty
- **Melancholic:** feeling pensive sadness

The most appropriate filler for the given blank is **jubilant.**

Q:54 The correct answer is **option 3** i.e. **originate**.
- **Subjects** and **verbs** must **AGREE** with one another in number (**singular or plural**). Thus, if a **subject** is singular, its **verb** must also be singular; if a **subject** is plural, its **verb** must also be plural.
- '**Usually**' is used in the simple present tense.
- The subject is plural hence, we need to use a plural verb.

Correct Sentence:-
*Parrots are birds of all colours that usually **originate** from a warm habitat.*

Q:55 The correct answer is **option 1** i.e. **No one was ever abused by her.**
Active voice- Subject + v2 + object + other words.
Passive voice- Object + was/were + v3 + by + subject + other words.
As the chosen option follows this structure it will be the correct answer.

Q:56 The correct answer is **option 4** i.e. **Radhika asked me if I could do a task for her.**
- As the reported speech is in '**Interrogative sentence**' we need to make changes according to this.
- There will be a change in the reporting verb and it will be changed into '**Asked**'.
- '**If**' will be used at the place of the '**Inverted comma**'.
- 'Can' will be changed into 'Could'.
- The reported speech will be kept in an assertive structure '**Subject + verb + object**'.

As all the rules are followed by the chosen option it will be correct.

Q:57 The correct answer is **option 4** i.e. **Attentive**.
The meaning of the given idiom is:-
All ears- Attentive.
As the meaning of the given idiom is the same as the chosen option it will be correct.

Q:58 The correct answer is **option 2** i.e. **First speech**
The meaning of the given idiom is:-
Maiden speech- First speech.
As the meaning of the given idiom is the same as the chosen option it will be correct.

Q:59 The correct answer is **option 4** i.e. **Achievemant**.
Let's have a look at the meaning of the given options:-
- **Accurate**- exact and correct; without mistakes.
- **Accustomed**- if you are accustomed to something, you are used to it and it is not strange for you.
- **Achieve**- to complete something by hard work and skill.
- **Achievement**- something that you have done successfully, especially through hard work or skill.

As the chosen option is incorrectly spelt it will be the correct answer.

Q:60 The correct answer is **option 4** i.e. **Acquiasce**.
Let's have a look at the meaning of the given options-

- **Acumen**- the ability to understand and judge things quickly and clearly.
- **Accurate**- exact and correct; without mistakes.
- **Acoustics**- the qualities of a room, etc. that make it good or bad for you to hear music, etc. in.
- **Acquiesce**- to accept something without argument, although you may not agree with it.

As the chosen option is incorrectly spelt it will be the correct answer.

Q:61 The correct answer is **option 4** i.e. **Dais**.
Let's have a look at the meaning of the given options:-

- **Podium**- a small platform for a speaker, a performer, etc. to stand on.
- **Arena**- an area with seats around it where public entertainments (sporting events, concerts, etc.) are held.
- **Tripod**- a piece of equipment with three legs that you use for putting a camera, etc. on.
- **Plentiful**- available in large amounts or numbers.
- **Dais**- a raised platform, usually at end of a room for speakers or guests of honour.

As the chosen option expresses the best meaning of the given word it will be correct.

Q:62 The correct answer is **option 3** i.e. **Plentiful**.
Let's have a look at the meaning of the given options:-

- **Copious**- in large amounts.
- **Vast**- extremely big.
- **Identical**- exactly the same as; similar in every detail.
- **Plentiful**- available in large amounts or numbers.
- **Messy**- that makes somebody/something dirty.

As the chosen option expresses the best meaning of the given word it will be correct.

Q:63 The correct answer is **option 2** i.e. **Unhealthy**.
Let's have a look at the meaning of the given options:-

- **Wholesome**- good for your health.
- **Complete**- having or including all parts; with nothing missing.
- **Unhealthy**- not having or showing good health.
- **Incomprehensible**- impossible to understand.
- **Few**- a small number of; some.

As the chosen option expresses the opposite meaning of the given word it will be correct.

Q:64 The correct answer is **option 1** i.e. **Convicted**.
Let's have a look at the meaning of the given options:-

- **Acquitted**- to state formally that a person is not guilty of a crime.
- **Convicted**- to say officially in a court of law that somebody is guilty of a crime.
- **Suspected**- to believe that something may happen or be true, especially something bad.
- **Argued**- to say things, often angrily, that shows that you do not agree with somebody about something.
- **Pleaded**- to ask somebody for something in a very strong and serious way.

As the chosen option expresses the opposite meaning of the given word it will be correct.

Q:65 The correct answer is **option 4** i.e. **Pleonasm**.
Let's have a look at the meaning of the given options:-

- **Circumlocution**- the use of too many words to express something; a long, complicated, indirect way of speaking or writing.
- **Verbatim**- exactly as it was spoken or written.
- **Ventriloquism**- the ability to speak without moving your lips so that your voice seems to be.
- **Pleonasm**- the use of more words than are needed to express a meaning.

As the chosen option expresses the meaning of the given group of words it will be the correct answer.

Q:66 The correct answer is **option 4** i.e. **Telepathy**.
Let's have a look at the meaning of the given options:-

- **Psychopathy**- mental illness or disorder.
- **Telecommunication**- communication over a

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distance by cable, telegraph, telephone, or broadcasting.
- **Psychology**– the scientific study of the mind and the way that people behave.
- **Telepathy**– the communication of thoughts between people's minds without using speech, writing or other normal methods.

As the chosen option expresses the meaning of the given group of words it will be the correct answer.

Q:67 The correct answer is **option 1** i.e. **of**.
- '**Rob of something**' is the correct use of the preposition here.

Hence, the chosen option will be correct.

Q:68 The correct answer is **option 1** i.e. **are**.
- **Subjects** and **verbs** must **AGREE** with one another in number (**singular or plural**). Thus, if a **subject** is singular, its **verb** must also be singular; if a **subject** is plural, its **verb** must also be plural.
- The subject of the given statement is plural (**Girls**) hence, we need to use a plural verb here.
- The given statement is in the present tense hence we need to use present tense here.

Hence, the chosen option will be correct.

Q:69 The correct answer is **option 2** i.e. **less**.
- In the given statement, we have '**More**' in the first half of the statement hence, we need to use '**Less**' in the second half of the statement.

Hence, the chosen option will be correct.

Q:70 The correct answer is **option 3** i.e. **than**.
- The given statement is in the comparative degree as the is '**Worse**' in the given statement.
- A comparative degree is followed by the preposition '**Than**'.

Hence, the chosen option will be correct.

Q:71 The correct answer is **option 4** i.e. **peers**.
Let's have a look at the meaning of the given options:-

- **peers**– a person who is of the same age or position in society as you.
- **matches**– to have the same colour or pattern as something else; to look good with something else.
- **girls**– a female child.
- **friends**– a person that you know and like (not a member of your family), and who likes you.

'**Peers**' which means '**a person who is of the same age as you**' fits the context appropriately.
Hence, the chosen option will be correct.

Q:72 The correct answer is **option 3** i.e. **ADCB**.
- **Statement A** is independent and defines the theme of the paragraph '**Death**' hence, it will be the opening statement.
- **Statement D** refers to statement A hence, it will come after statement A.
- **Statement B** is the conclusion of the Buddha's statement hence, it will come after C.
- Now we have the final arrangement i.e. **ADCB**.

The chosen option is the same as the final arrangement hence, it will be correct.
Correct Arrangement:-
In Buddhism, dying is important. It's as important as living because birth and death inter-are. The Buddha said, "Anything that is born must die." If there is birth, then there must be death also.
Some common rules that help while solving the Para Jumbles:-
- Read the paragraph **carefully** and try **to comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
- Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
- Try to **identify** the **mandatory pairs**. Two sentences can be connected through various connectors.
- If a statement starts with **Pronoun,** find **the noun** for which the pronoun is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Q:73 The correct answer is **option 4** i.e. **CABD**.
- **Statement C** is independent and defines the theme of the paragraph '**Water**' hence, it will

be the opening statement.
- **Statement A** refers to statement C hence, it will come after statement **C**.
- **Statement B** talks about '**if there will be no water there will be no life**' hence, it will come after **A**.
- **Finally**, **D** will come at the end of the arrangement.
- Now we have the final arrangement i.e. **CABD**.

The chosen option is the same as the final arrangement hence, it will be correct.

Correct Arrangement:-

Water is one of the most important substances on earth. All plants and animals must have water to survive. If there was no water there would be no life on earth. Apart from drinking it to survive, people have many other uses for water.

Some common rules that help while solving the Para Jumbles:-
- Read the paragraph **carefully** and try **to comprehend the paragraph's idea or theme** and **eliminate the irrelevant options**.
- Try to identify the opening (**Independent statement**) and closing statement (**Concluding statement**).
- Try to **identify** the **mandatory pairs**. Two sentences can be connected through various connectors.
- If a statement starts with **Pronoun,** find **the noun** for which the pronoun is used, both the statements containing **noun** and **pronoun** will form a pair respectively.

Q:74 The correct answer is **option 2** i.e. **Many pregnant woman in India cannot.**
- The error lies in **option 2** because of the wrong use of '**Noun**'.
- We need to replace '**Woman**' with '**Women**' for making the statement grammatically correct.

Grammatical concept:-
- '**Many**' is used when we are speaking about a **plural** noun.
- The plural form of the noun '**Woman**' is '**Women**'.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-
Many pregnant women in India cannot go for

check-ups as there is no transport to take them to health centres, especially in remote areas.

Q:75 The correct answer is **option 1** i.e. **as faster as Nipu, so.**
- The error lies in **option 1** because of the wrong use of '**Adjective**'.
- We need to replace '**Faster**' with '**Fast**' for making the statement grammatically correct.

Grammatical concept:-
- '**As + Positive degree + as**' is the correct structure for the comparison.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-
I don't feel, Nishi is **as fast as Nipu, so** she is not competent for this race.

Q:76 The correct answer is **option 4** i.e. **India.**
India won the title of the CAVA Women's Challenge Cup 2023.
A) India has won the title of the NSC-CAVA Women's Volleyball Challenge Cup held in Kathmandu.
B) India won the title by defeating Kazakhstan in the final at the National Sports Council's Covered Hall in Tripureshwor, Kathmandu.

Q:77 The correct answer is **option 3** i.e. **Sir John Marshall.**
- The Indus civilisation was named the 'Harappan civilization' after the name of the Indus site of Harappa by **Sir John Marshall**.
- Harappa was the first archaeological site to be discovered.
- As per the archaeological convention of naming, a previously unknown civilization is named by its first excavated site.

Q:78 The correct answer is **Option 4** i.e. **Article 61**
- Article 61: Procedure for impeachment of the President.
- Article 42: Seeks to ensure humane work conditions and provide for maternity relief.
- Article 48: Protection and improvement of environment and safeguarding of forests and wildlife.

Article 59: Conditions of the President's office.

Q:79 The correct answer is **option 4** i.e. **Ruskin Bond**
1. Delhi is not far is one of Ruskin Bond's novels about a small town in India and its aspirations.
2. Ruskin Bond is an Indian author of British descent.
3. He lives with his adopted family in Landour, Mussoorie, India.
4. The Indian Council for Child Education has recognised his role in the growth of children's literature in India.
Notable works:
(i) Our Trees Still Grow in Dehra
(ii) A Flight of Pigeons
(iii) The Blue Umbrella

Q:80 The correct answer is **option 2** i.e. **Practice in the same High Court he had retired.**
- The High Court is the highest judicial court in a state and the second highest in the country after the Supreme Court.
- At present, we have 25 High Courts in India.
- The Indian Constitution says that once a high court judge gets retired, **he cannot practice in the same court he had retired** nor in the lower courts.
- However, he can practice in other High Courts and the Supreme Court.

Q:81 The correct answer is **option 1** i.e. **Communication.**
Aggregations of cells in the human body are classified into four types of tissues: epithelial, connective, muscle, and nervous.
(i) Epithelial tissues act as coverings, controlling the movement of materials across their surface.
(ii) Connective tissue binds the various parts of the body together, providing support and protection.
(iii) Muscle tissue allows the body to move.
(iv) Nervous tissues function in communication.

Q:82 The correct answer is **option 2** i.e. **Cripps Mission.**
- Gandhiji termed **Cripps Mission** as a 'post-dated cheque in a crashing bank'.
- The Cripps Mission was a mission by the British government to secure full Indian cooperation and support for their efforts in World War II. This mission was a failed attempt in late March 1942.
- The mission was headed by a senior minister Sir Stafford Cripps.

Q:83 The correct answer is **option 1** i.e. **Barren**
- It is an island located in the Andaman Sea.
- Barren Island is the only active volcano in India.
- It is the only active volcano along a chain of volcanoes from Sumatra to Myanmar.

Q:84 The correct answer is **option 1** i.e. **Recep Tayyip Erdogan.**
Recep Tayyip Erdogan was re-elected as Turkey's president.
A) Recep Tayyip Erdogan's supporters were celebrating after Turkey's long-time president won Sunday's vote, securing another five years in power.
B) 'The entire nation of 85 million won,' he told cheering crowds outside his enormous palace on the edge of Ankara.

Q:85 The correct answer is **option 4** i.e. **Burma.**
- **Bahadur Shah Zafar or Bahadur Shah II was the last Mughal emperor.** He was the second son of and became the successor to his father, Akbar II, upon his death on 28 September 1837. He was a nominal Emperor, as the Mughal Empire existed in name only, and his authority was limited only to the walled city of Old Delhi.
- **Following his involvement in the Indian Rebellion of 1857, the British exiled him to Rangoon in British-controlled Burma (now in Myanmar),** after convicting him on several charges.

Q:86 The correct answer is **option 1** i.e. **$**
- The currency of Canada is the Canadian dollar, having the symbol- $ (Dollar) and

code- CAD (Canadian Dollar).
- The sign C$ is also used to distinguish it from other dollar-denominated currencies.

Q:87 The correct answer is **option 1** i.e. **1 June.**
Global Day of Parents is observed on 1 June.
A) Global Day of Parents is a special observance that recognizes the critical role parents play in the lives of their children and the well-being of society as a whole.
B) Celebrated on June 1st each year, this day serves as an opportunity to honour and appreciate the dedication, love, and sacrifices of parents worldwide.

Q:88 The correct answer is **option 3** i.e. **four other carbon atoms**.
In diamond, each carbon atom is bonded to four other carbon atoms tetrahedrally.
Or
In diamond 4 carbon-carbon covalent bonds are present. Each carbon shares an electron with four other carbon atoms forming four single bonds.

Q:89 The correct answer is **option 2** i.e. **John F. Clauser**
- The Royal Swedish Academy of Sciences announced the Nobel Prize in October 2022.
- The Nobel Prize in Physics for 2022 has been awarded to John F. Clauser of J.F. Clauser & Association, California, USA, Alain Aspect of Université Paris-Saclay and École Polytechnique, Palaiseau, France, and Anton Zeilinger of the University of Vienna, Austria for their work in quantum information science.
- In 2021, the prize was awarded to three scientists- Syukuro Manabe, Klaus Hasselmann, and Giorgio Parisi.

Q:90 The correct answer is **option 1** i.e. **YES Bank.**
YES Bank unveils new logo, to roll it out over three months.
A) YES Bank unveiled its new logo as part of its "refreshed brand identity", and expects to roll it out across its branch network over the next three months, MD and CEO Prashant Kumar said.
B) He was speaking at the sidelines of an event to launch the new brand campaign with the slogan Life Ko Banao Rich.

Q:91 The correct answer is **option 1** i.e. **Maya Angelou**.
A) Maya Angelou became the first black woman to feature in a US coin.
B) Maya Angelou wrote 8 autobiographies and several poems.
C) The coin has Maya on one side and President George Washington on the other side.

Q:92 The correct answer is **Option 3** i.e. **Sir Thomas Roe.**
- Sir Thomas Roe was an English diplomat of the **Elizabethan and Jacobean periods.**
- He represented England in the **Mughal Empire**, the **Ottoman Empire,** and the **Holy Roman Empire.**
- He was ambassador to the **court at Agra of Jahangir from 1615 to 1618.**
- He obtained permission to trade in **Surat**.

Q:93 The correct answer is **option 1** i.e. **Equal.**
- The size of the image formed by a plane mirror is always equal to the object. It can also be said that the magnification of a plane mirror is 1.
- Images formed by plane mirrors are virtual, upright, left-right reversed, and the same distance from the mirror as the object's distance.

Q:94 The correct answer is **option 4** i.e. **Meghalaya.**
India-EU Connectivity Conference was organized in Meghalaya.
A) The Ministry of External Affairs, the EU Delegation to India and the Asian Confluence jointly organized the India-EU Connectivity Conference in Meghalaya.
B) The objective of the two-day conference was to explore possibilities of boosting connectivity investments in India's North Eastern States and with India's neighbours — Nepal, Bhutan and Bangladesh.

Q:95 The correct answer is **Option 1** i.e. **Satpura range**
1. Satpura Range is a series of seven mountains running in the east-west direction to the south of the Vindhya and between the Narmada and the

Tapi river

2. Satpura is a type of fold mountain and Dhupgarh is its highest peak.

Q:96 The correct answer is **Option 1** i.e. **Boxing**
- Jitender Kumar (born 18 July 1988) is an Indian flyweight boxer.
- He won the bronze medal in the flyweight category at the 2006 Commonwealth Games.
- Boxing is a combat sport in which two people, usually wearing protective gloves, throw punches at each other for a predetermined amount of time in a boxing ring.
- Amateur boxing is both an Olympic and Commonwealth Games sport and is a standard fixture in most international games- it also has its own World Championships.

Q:97 The correct answer is **option 3** i.e. **NH-9.**
- **NH-9** connects Pune to Machilipatnam. (Now it is called NH-65)
- NH-7 connects Varanasi to Kanyakumari.
- NH-8 connects Delhi to Mumbai.
- NH-10 connects Delhi to Indo Pak Border.

Q:98 The correct answer is **option 4** i.e. **Thaipusam.**
- Thaipusam is a day of prayers and penance.
- Dedicated to Lord Subramaniam, also known as Lord Murugan, a major South Indian god, the deity of youth, power and virtue, this festival is a time for repentance for devotees with celebrations carried out mainly at the temple.
- Thaipusam is the day when everything you start will flourish, as Prajapati's grace is limitless.

Q:99 The correct answer is **option 2** i.e. **Monopoly.**

1. A **monopoly** is a market structure in which a single firm controls the entire market or is dominated by a single seller.

2. In the monopoly market form, the seller faces no competition, as he is the sole seller of goods with no close substitutes. He enjoys the power of setting the price for his goods.

3. In this type of market form, the firm has the highest level of market power, as consumers do not have any alternatives.

4. There are four types of market structures: a) **perfect competition** b) **monopolistic competition** c) **oligopoly** d) **monopoly.**

Q:100 The correct answer is **option 4** i.e. **B12.**
- The most common cause of vitamin B-12 deficiency anaemia is a lack of a substance called intrinsic factor, which can be caused when your immune system mistakenly attacks the stomach cells that produce this substance.
- This type of anaemia is called pernicious anaemia.