Q:1 What will come in the place of question mark (?) in the following:

$$3\frac{1}{3} + 2\frac{1}{2} - \frac{3}{8} \; of \; 6\frac{2}{3} = \; ?$$

1. $\frac{5}{3}$

2. $\frac{10}{3}$

3. $\frac{3}{5}$

4. $\frac{-3}{5}$

Q:2 The income of Rohit is 37.5% more than the expenditure of Mohit. If income of Mohit is 50% more than the expenditure of Rohit. If the savings of Mohit is Rs. 3,500 more than that of Rohit's and the ratio between expenditure and savings of Rohit is 9 : 2, respectively, then find the income of Mohit.

1. Rs. 13,500

2. Rs. 11,000

3. Rs. 12,500

4. Rs. 10,000

Q:3 The present average age of Tanish and Vikesh is 18 years. The present average age of Tanish, Vikesh, and Ashish is 20 years. The difference between the present ages of Tanish and Dinesh is 12 years. Find the present age of Tanish if the present average age of Tanish, Vikesh, Dinesh, and Ashish is 24 years.

1. 24 years

2. 20 years

3. 32 years

4. 40 years

Q:4 Rahul can row 40 km/hr in still water and the river is running at 20 km/hr. If Rahul takes 3 hours to row to a place and back, how far is the place?

1. 40 km

2. 25 km

3. 33 km

4. 45 km

Q:5 Directions: Answer the questions based on the information given below.

The line graph given below shows the number of deaths in five localities (A, B, C, D and E) in a district of Bihar due to different reasons in 2021, and the percentage increase in the number of

deaths in 2022 in each locality.
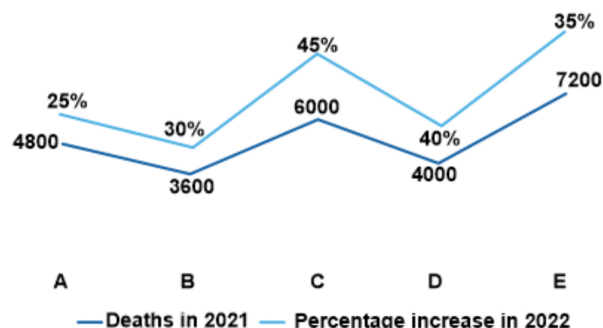
In 2023, the number of deaths in locality D increased by 35% with respect to the previous year. Find the total number of deaths in 2023 in locality D.

1. 7450

2. 7560

3. 8960

4. None of these

Q:6 A is P% less efficient than B and they received total Rs 81,000 for the whole work. If A got Rs 36,000 in total wages, find the value of P.

1. 25%

2. 33.33%

3. 40%

4. 20%

Q:7 If the capacity of a cylindrical tank is 3696 m^3 and the diameter of its base is 14 m then, find the depth of the tank.

1. 30 m

2. 18 m

3. 24 m

4. 20 m

Q:8 A shopkeeper marked his article x% more than its cost price and sold the article at 15% profit. If the profit is Rs. 54 and the discount on this article is Rs. 36, then find the value of x.

1. 30

2. 20

3. 25

4. 35

Q:9 Twenty-one times a positive number is less than its square by 100. The value of the positive

number is:
1. 25
2. 26
3. 42
4. 41

Q:10 A sum of Rs 14500 is given on simple interest at the rate of 10% per annum, if interest is added to the sum after 2 years and then simple interest on that sum is calculated again then Find out the total interest obtained after 5 years.
1. Rs. 8110
2. Rs. 8130
3. Rs. 8140
4. Rs. 8120

Q:11 A train moving with a speed of 30 m/sec overtakes a man moving at a speed of 10 m/sec in the same direction in 6 seconds. Find the length of the train.
1. 120 metres
2. 200 metres
3. 90 metres
4. 150 metres

Q:12 The given table shows the tuition fees per student of five different classes of a school.

Class	VI	VII	VIII	IX	X
Tuition fees(in Rs)	1050	1060	1120	1150	1200

What percent of the tuition fee of class VIII is less than that of class X?
1. 15%
2. 50/3%
3. 20/3%
4. 20%

Q:13 If tan Ø = -1/3 then, find the value of sin 2Ø.
1. - 3/5
2. - 2/5
3. -1
4. 0

Q:14 Two circles of equal radii of 6 cm intersect each other such that each circle passes through the centre of the other circle. Find the length of the chord that is common to both the circles.
1. $6\sqrt{3}$ cm

2. $2\sqrt{5}$ cm
3. $6\sqrt{2}$ cm
4. $4\sqrt{3}$ cm

Q:15 if x + y = 7, and 1/x + 1/y = 98/(x + y) then, find the value of $x^2 + y^2$.
1. 49
2. 50
3. 48
4. 24

Q:16 The ratio of the present age of Sachin and Virat is 5 : 3. If Virat is 5 years younger than Sachin then, find the age of Sachin after 10 years.
1. 22.5 years
2. 25 years
3. 35 years
4. 38 years

Q:17 A shopkeeper marked an article for Rs. x and sold it for Rs.630 with a discount of 10%. Find the value of x.
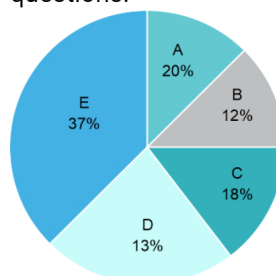1. Rs.650
2. Rs.700
3. Rs.600
4. Rs.4500

Q:18 Find the LCM of given numbers:
1200, 1800, 2400, 600, 15, 36000
1. 18000
2. 36000
3. 1800
4. 3600

Q:19 Directions: The pie chart given below represents the distribution of different types of magazines sold in a locality. The total number of magazines sold is 3000. Study the pie chart carefully and answer the following questions.

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Number of copies sold of Magazine B is what percent of Number of copies sold of Magazine A?
1. 50%
2. 40%
3. 30%
4. 60%

Q:20 Directions: The pie chart given below represents the distribution of different types of magazines sold in a locality. The total number of magazines sold is 3000. Study the pie chart carefully and answer the following questions.
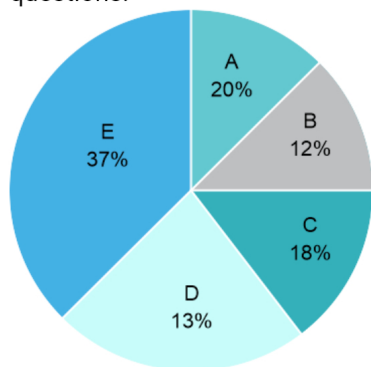

Find the average of the sum of the magazines A, D and E.
1. 600
2. 700
3. 770
4. 750

Q:21 If the amount of Rs 3950 at a rate of 10% in 2 years is separately lent to two customers on simple interest and compound interest then, find the sum of compound interest and simple interest received on that amount.
1. Rs. 3235.31
2. Rs. 3280
3. Rs. 3369
4. Rs. 1619.5

Q:22 The diameter of a 100 cm long roller, is 21 cm. If it takes 1200 complete revolutions to level a playground then, find the cost of leveling it at 50 paise per square meter.
1. Rs 396
2. Rs 484
3. Rs 516
4. Rs 325

Q:23 A boy scored an average of 65 marks in five subjects. However, while doing total, 70 marks were added instead of 55 marks. Find the correct average of marks scored by the boy in five subjects.
1. 68
2. 73
3. 66
4. 62

Q:24 If 15 men take 86 days to complete a job, in how many days can 22 men finish that work?
1. 98.6 days
2. 48.6 days
3. 58.6 days
4. 68.6 days

Q:25 If an article has marked up by 20% and applied two consecutive discounts of 10% then what is the profit or loss percentage?
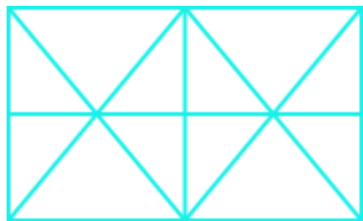**1.** Loss of 2.8%
2. Profit of 3.2%
3. Profit of 4.1%
4. Neither Profit nor Loss

Q:26 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

1. a
2. b
3. c
4. d

Q:27 Find the number of triangles in the given figure?

1. 18
2. 28
3. 19
4. 22

Q:28 Select the wrong term in the series.
16, 20, 29, 54, 103, 184
1. 20
2. 25
3. 103
4. 184

Q:29 Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.
1. 32 : 1088
2. 24 : 624
3. 27 : 756
4. 17 : 323

Q:30 When seen through a mirror, a clock shows 09:26 hrs. The correct time is ___.
1. 03:34
2. 02:34
3. 03:24
4. 01:24

Q:31 Select the number from among the given options that can replace the question mark [?] in the following series.
23, 28, 38, 53, 73, ?
1. 88
2. 103
3. 98
4. 93

Q:32 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
1) Tampered
2) Tamarind
3) Tamping
4) Tampion
5) Tambura
1. 5, 1, 2, 4, 3
2. 5, 2, 1, 4, 3
3. 2, 5, 1, 4, 3
4. 2, 5, 1, 3, 4

Q:33 Select the option that is related to the third number in the same way as the second number is related to the first number.
234 : 351 :: 348 : ?
1. 621
2. 522
3. 642
4. 571

Q:34 In the questions given below there are four statements followed by three conclusions I, II and III. You have to take the four 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 conclusions logically follows from the given statements disregarding commonly known facts.
Statements:
Some Pens are Erasers
All Erasers are Pencils
Few Pencils are Markers
Conclusion:
I. Some Markers are Pens
II. Some Pencils are Erasers
III. All Markers can be Erasers
1. Only conclusions I and II follow
2. Only conclusion II follows
3. Only conclusion III follows
4. Only conclusions II and III follow

Q:35 If '+' means '-', ' × ' means '+', '-' means '÷' and '÷' means ' × ', then what is the value of the following expression?
156 - 4 × 24 ÷ 12 + 124 × 34 + 108 - 9
1. 459
2. 225
3. 357
4. 123

4

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Q:36 Two different positions of the same dice are shown. When 'S' is at the bottom then which letter will be at the top?

1. U
2. T
3. Q
4. P

Q:37 Select the option that is related to the third cluster in the same way the first cluster is related to the second cluster.
FLOWERS : 78 :: MASTER : ?
1. 70
2. 89
3. 48
4. 56

Q:38 In a certain code language, 'WHITE' is coded as '260' and 'BROWN' is coded as '288'. How will 'OLIVE' be coded in that language?
1. 252
2. 301
3. 247
4. 198

Q:39 Read the given statements and conclusions carefully. Assuming 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:
All gems are jewels.
Some rocks are stones
All stones are gems
Conclusions:
I: Some jewels are stones
II: Some rocks are gems
III: All jewels are stones
1. Only conclusion I and II follow
2. Only conclusion II and III follow
3. Only conclusion I and III follow

4. All conclusions I, II and III follow

Q:40 In a certain code language -
M # N means 'M is the sister of N'.
M & N means 'M is the son of N'.
M * N means 'M is the father-in-law of N'.
M @ N means 'M is the mother of N'.
If Q @ A & V * B @ U # L & A, then how is U related to Q?
1. Nephew
2. Grandson
3. Granddaughter
4. Cannot be determined

Q:41 Select option figure (I), (II), (III) or (IV) in which the given figure is embedded. (rotation is not allowed)

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

Q:42 Which two signs should be interchanged to make the given equation correct?
2 × 13 + 45 ÷ 9 - 6 = 19

1. × and -
2. + and -
3. ÷ and ×
4. - and ÷

Q:43 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
? ,VLFS, YPKY, BTPE, EXUK
1. SHAM
2. SIAM

3. SJBN
4. SGZL

Q:44 If '@' means 'addition', '%' means 'multiplication', '$' means 'division' and '#' means 'subtraction', then find the value of the following expression.
56 % 2 @ 183 $ 3 # 120
1. 87
2. 62
3. 48
4. 53

Q:45 Select the option that is related to the third word in the same way as the second word is related to the first word.
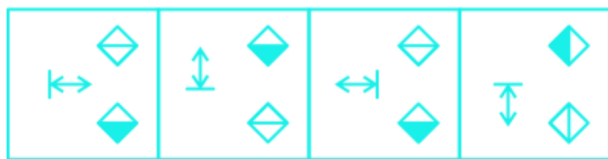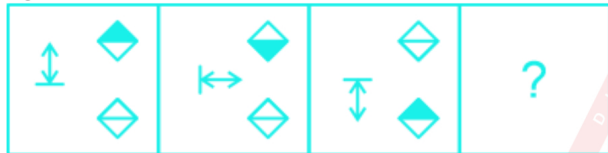Toddler : Adult :: Larva : ?
1. Leaf
2. Butterfly
3. Cocoon
4. Egg

Q:46 Select the figure that will come next in the following figure series.

(I)   (II)   (III)   (IV)

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

Q:47 Select the set in which the numbers are related in the same way as the numbers of the given set.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 67 -

Operations on 67 such as adding/subtracting/multiplying etc. to 67 can be performed. Breaking down 67 into 6 and 7 and then performing mathematical operations on 6 and 7 is NOT allowed.)
(78, 71, 156)
(37, 22, 74)
1. (68, 19, 146)
2. (91, 67, 188)
3. (89, 45, 178)
4. (72, 27, 142)

Q:48 Seven people in the class had different heights. N is taller than L. K is taller than U. P is shorter than G. C is taller than N but shorter than U. L is taller than G. How many people are taller than N?
1. 4
2. 5
3. 3
4. 2

Q:49 Select the letter cluster that can replace the question mark (?) in the following series.
FG, NO, WX, EF, ?
1. NO
2. MN
3. OP
4. LM

Q:50 Select the option which is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
11 : 77 :: 8 : ? :: 14 : 119
1. 128
2. 44
3. 24
4. 68

Q:51 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 blank.
Happiness is ____(1)_____ important than success. There is ____(2)_____ doubt that success is a very important part of life, but happiness is a priceless ____(3)____. People

who achieve success, if are not happy then they are ____(4)____ the joys of life and the very joy of achieving success if they can't ____(5)____ good or joyful about it.

Select the most appropriate option to fill in the blank number (1).
1. most
2. more
3. much
4. many

Q:52 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 blank.
Happiness is ____(1)____ important than success. There is ____(2)____ doubt that success is a very important part of life, but happiness is a priceless ____(3)____. People who achieve success, if are not happy then they are ____(4)____ the joys of life and the very joy of achieving success if they can't ____(5)____ good or joyful about it.

Select the most appropriate option to fill in the blank number (2).
1. not
2. no
3. none
4. neither

Q:53 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 blank.
Happiness is ____(1)____ important than success. There is ____(2)____ doubt that success is a very important part of life, but happiness is a priceless ____(3)____. People who achieve success, if are not happy then they are ____(4)____ the joys of life and the very joy of achieving success if they can't ____(5)____ good or joyful about it.

Select the most appropriate option to fill in the blank number (3).
1. fervour
2. instinct

3. emotion
4. reaction

Q:54 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 blank.
Happiness is ____(1)____ important than success. There is ____(2)____ doubt that success is a very important part of life, but happiness is a priceless ____(3)____. People who achieve success, if are not happy then they are ____(4)____ the joys of life and the very joy of achieving success if they can't ____(5)____ good or joyful about it.

Select the most appropriate option to fill in the blank number (4).
1. missing
2. miss
3. missed
4. to miss

Q:55 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 blank.
Happiness is ____(1)____ important than success. There is ____(2)____ doubt that success is a very important part of life, but happiness is a priceless ____(3)____. People who achieve success, if are not happy then they are ____(4)____ the joys of life and the very joy of achieving success if they can't ____(5)____ good or joyful about it.

Select the most appropriate option to fill in the blank number (5).
1. felt
2. feeling
3. feel
4. feels

Q:56 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 Pine Island glacier in West Antarctica in the Southern hemisphere has been losing its snow-

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mass at <u>an extreme fast</u> rate since 2017.
1. an extremely fast
2. No Improvement
3. an extreme fastly
4. an extremely fastly

Q:57 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'.
<u>Once the tree has been</u> classified as a 'heritage tree', it will be accorded more protection.
1. Once the trees has been
2. Once the tree have been
3. No Improvement
4. Once the tree has being

Q:58 Fill in the blank with the most appropriate word.
High-quality child care keeps children safe and _____.
1. hardy
2. healthy
3. pure
4. clean

Q:59 Fill in the blank with the most appropriate word.
China successfully completed _____ return mission to the moon with its unmanned orbiter landing back on Earth
1. it's a first
2. its first
3. its the first
4. it's first

Q:60 Select the correct passive form of the given sentence.
Don't enter the garden without the token.
1. The garden need not to be entered without the token.
2. The garden should not be entered without the token.
3. The garden would not be entered without the token.
4. The garden could not be entered without the token.

Q:61 Select the correct indirect form of the given sentence.
My father said to me, 'Can you give one piece of biscuit to the beggar?'
1. My father asked me if I can give one piece of biscuit to the beggar.
2. My father asked me if I could have given one piece of biscuit to the beggar.
3. My father asked me if could I give one piece of biscuit to the beggar.
4. My father asked me if I could give one piece of biscuit to the beggar.

Q:62 Select the most appropriate meaning of the given idiom.
Dropping names
1. Talking proudly about there family members
2. Using pet nemes
3. Hinting at high connection
4. Taking informally

Q:63 Select the most appropriate meaning of the given idiom.
A red-letter day
1. A dangerous day
2. An important day
3. An eventful day
4. A formidable day

Q:64 Select the INCORRECTLY spelt word.
1. Tender
2. Abash
3. Encourage
4. Emboldan

Q:65 Select the INCORRECTLY spelt word.
1. Ademant
2. Stubborn
3. Obdurate
4. Inflexible

Q:66 Select the most appropriate SYNONYM of the given word.
CYNOSURE
1. Trouble
2. Attraction
3. Panacea
4. Harmony

Q:67 Select the most appropriate SYNONYM of the given word.

DELIBERATE

1. Incidental

2. Intentional

3. Awful

4. Deplorable

Q:68 Select the most appropriate ANTONYM of the given word.

CALLOW

1. Experienced

2. Naive

3. Wary

4. Nagging

Q:69 Select the most appropriate ANTONYM of the given word.

CAMARADERIE

1. Companionship

2. Intimacy

3. Desperation

4. Enmity

Q:70 Select the word which means the same as the group of words given.

An order requiring a person to attend court

1. Courtship

2. Agreement

3. Subpoena

4. Command

Q:71 Select the word which means the same as the group of words given.

To remove the offensive portions of a book

1. Besiege

2. Diagnose

3. Expurgate

4. Damage

Q:72 Given below are four jumbled sentences. Select the option that gives their correct order.

A: The WTO creates and embodies the ground rules for global trade among member nations, offering a system for international commerce.

B: This means WTO rules become part of a country's domestic legal system. The rules thus apply to local companies conducting business in the international arena.

C: The WTO has 164 members that have ratified the rules of the WTO in their individual countries as well.

D: The purpose of the WTO is to ensure global trade commences smoothly, freely, and predictably.

1. DACB

2. CDAB

3. DBCA

4. CDBA

Q:73 Given below are four jumbled sentences. Select the option that gives their correct order.

A: The term Kathak is derived from the Vedic Sanskrit word Katha which means 'story', and Kathakar which means 'the one who tells a story', or 'to do with stories'.

B: The origin of Kathak is traditionally attributed to the travelling bards of ancient northern India known as Kathakars or storytellers.

C: It is found in three distinct forms, called 'gharanas', named after the cities where the Kathak dance tradition evolved – Jaipur, Banaras and Lucknow.

D: Kathak is one of the eight major forms of Indian classical dance.

1. CDBA

2. DBAC

3. ACDB

4. DBAC

Q:74 Identify the segment in the sentence which contains the grammatical error.

The Taj Mahal and other centrally protected monuments closed for around two months due to the pandemic will be reopen now.

1. protected monuments closed

2. The Taj Mahal and other centrally

3. the pandemic will be reopen now

4. for around two months due to

Q:75 Identify the segment in the sentence which contains the grammatical error.

Around one crore devotees from along the country and abroad visit the Vaishno Devi shrine atop the

Trikuta hills annually.
1. along the country and
2. abroad visit the Vaishno Devi shrine
3. Around one crore devotees from
4. atop the Trikuta hills annually

Q:76 Which country successfully launches the first-ever Arab-Built lunar spacecraft in December 2022?
1. Saudi Arabia
2. Kuwait
3. UAE
4. Iran

Q:77 Who among the following has won the 2019 Nobel Prize in Literature?
1. James Peebles
2. Peter Handke
3. Toni Morrison
4. Esther Duflo

Q:78 Pradip Kumar Banerjee is related to which sport?
1. Basketball
2. Hockey
3. Football
4. Tennis

Q:79 Which of the following is NOT an equation of motion?
1. $s = ut + 1/2\ at^3$
2. $v = u + at$
3. $s = ut + 1/2\ at^2$
4. $v^2 = u^2 + 2as$

Q:80 Which among the following was the capital of the Pallava Dynasty?
1. Kanchipuram
2. Vaishali
3. Shravasti
4. Champa

Q:81 Who received the SIES Award for public leadership in December 2022?
1. PM Modi
2. CM Yogi
3. Venkaiah Naidu
4. President

Q:82 In January 2023, which city was selected to host the WEF Center for the Fourth Industrial Revolution?
1. Lucknow
2. Jaipur
3. Hyderabad
4. Mumbai

Q:83 Who among the following is the author of the book-"Unaccustomed Earth"?
1. Khushwant Singh
2. Shashi Tharoor
3. Manmohan Singh
4. Jhumpa Lahiri

Q:84 Which one is stronger between the Sigma and Pi bonds?
1. Pi bond
2. Sigma bond
3. Both are equally strong
4. Depends on the atom

Q:85 Which of the following is NOT a Fundamental Right provided in the Indian Constitution?
1. Right to vote
2. Right to life
3. Right against exploitation
4. Right to Constitutional remedies

Q:86 Part IV of the Indian Constitution deals with _____.
1. Directive Principles of State Policy
2. Human Rights
3. The Union Judiciary
4. Parliament

Q:87 Who among the following was the founder of the newpaper-'Indian Mirror'?
1. Devendranath Tagore
2. Bal Gangadhar Tilak
3. Gopal Krishna Gokhale
4. Mahatma Gandhi

Q:88 Recently, which UT becomes the first Indian UT to completely shift to e-governance mode?
1. Chandigarh
2. Puducherry
3. Lakshadweep
4. Jammu-Kashmir

Q:89 What is the name of the grasslands in North America?
1. Pampas
2. Steppes
3. Canterbury
4. Prairies

Q:90 What is the new name of Mopa International Airport in Goa?
1. Goa International Airport
2. Manohar Parrikar International Airport
3. Panji International Airport
4. Modi International Airport

Q:91 An increase in the price of which of these products will have a ripple effect in increasing the prices of many products, thereby resulting in inflation?
1. Petroleum
2. Medicines
3. Smartphones
4. Automobiles

Q:92 Which of the following options falls into the **Non-Vascular group** of Plantae?
1. Pteridophytes
2. Bryophytes
3. Gymnosperms
4. Angiosperms

Q:93 In which among the following oceans is Mariana Trench located?
1. Indian Ocean
2. Pacific Ocean
3. Arctic Ocean
4. Atlantic Ocean

Q:94 In which among the following Harappan sites is dockyard located?

1. Kalibangan
2. Mohen-jo-daro
3. Lothal
4. Dholavira

Q:95 Laho is a folk dance of _____.
1. Meghalaya
2. Manipur
3. Kerala
4. Maharashtra

Q:96 Which among the following is the time period of the first world war?
1. 1914-1918
2. 1917-1935
3. 1920-1922
4. 1952-1960

Q:97 The Mountain peak- Cotopaxi is located in which among the following countries?
1. India
2. France
3. Ecuador
4. Indonesia

Q:98 Who was the nuclear science and former CSIR director, who recently passed away?
1. A D Damodaran
2. K Narsimhan
3. R Ganeshan
4. Ramshankar Singh

Q:99 Which among the following is not a part of Human forebrain?
1. Thalamus
2. Cerebrum
3. Hypothalamus
4. Femur

Q:100 Who among the following is not a Padma Vibhushan Awardee 2020?
1. Mary Kom
2. Channulal Mishra
3. Anernood Jugnauth
4. P.V Sindhu

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Answer Key

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

Answers and Solutions

Q:1 The correct answer is **option 2** i.e. $\frac{10}{3}$.

Concept Used:

BODMAS rule.

Explanation:

According to the given question,

$3\frac{1}{3} + 2\frac{1}{2} - \frac{3}{8} \, of \, 6\frac{2}{3}$

$\Rightarrow \frac{10}{3} + \frac{5}{2} - \frac{3}{8} \times \frac{20}{3}$

$\Rightarrow \frac{10}{3} + \frac{5}{2} - \frac{5}{2}$

$\Rightarrow \frac{10}{3}$

Hence, the required value is $\frac{10}{3}$

Q:2 The correct answer is **option 1** i.e. **Rs. 13,500.**

Let the expenditure of Mohit be Rs. '8x'

So, income of Rohit = 8x × 11/8 = Rs. '11x'

Let the expenditure of Rohit be Rs. '2y'

So, income of Mohit = 2y × 1.50 = Rs. '3y'

So, savings of Rohit = 2y × 2/9 = Rs. 4y/9

According to the question;

⇒ 11x − 2y = 4y/9

⇒ 11x = 22y/9

⇒ x = 2y/9

Since the savings of Mohit is Rs. 3,500 more than that of Rohit.

⇒ 11x − 2y + 3500 = 3y − 8x

⇒ 19x + 3500 = 5y

⇒ 19 × 2y/9 + 3500 = 5y

⇒ 3500 = 7y/9

⇒ y = 4500

So, income of Mohit = 3 × 4500 = Rs. 13,500

Q:3 The correct answer is **option 1** i.e. **24 years.**

The sum of the present ages of Tanish, Vikesh, Dinesh, and Ashish

⇒ 24 × 4 = 96 years

The sum of the present ages of Tanish and Vikesh = (18 × 2) = 36 years

The sum of the present age of Tanish, Vikesh, and Ashish

⇒ (3 × 20) = 60 years

So, the present age of Dinesh = (96 − 60) = 36 years

The present age of Tanish = is either (36 - 12) or (36 + 12) = either 24 years or 48 years

As the sum of the age of Tanish and Vikesh is 36 years so the present age of Tanish is less than 36 years.

So, the present age of Tanish = 24 years

Q:4 The correct answer is **option 4** i.e. **45 km.**

Let, the distance rowed by Rahul be x km.

Upstream speed = (40 - 20) = 20 km/h

Speed downstream = (40 + 20) = 60 km/h

As per the question;

⇒ x/60 + x/20 = 3

⇒ 4x/60 = 3

⇒ x = 45 km

Q:5 The correct answer is **option 2** i.e. **7560.**

Given,

Localities	Deaths in 2021	Deaths in 2022
A	4800	1.25 × 4800 = 6000
B	3600	1.30 × 3600 = 4680
C	6000	1.45 × 6000 = 8700
D	4000	1.40 × 4000 = 5600
E	7200	1.35 × 7200 = 9720

Required number of deaths in 2023 in locality D =

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1.35 × 5600 = 7560

Q:6 The correct answer is **option 4** i.e. **20%.**
Given,
Total wages = Rs. 81,000
A got = Rs. 36,000
∴ B got = (81000 - 36000) = Rs.45000
The ratio of wages of A and B = A : B = 36000 : 45000 = 4 : 5
The efficiency of A less than B = (5 - 4) = 1
Percentage less = (1/5) × 100 = 20%
∴ Value of P = 20%

Q:7 The correct answer is **option 3** i.e. **24 m.**
Let, the depth of the tank (h) = h meters
Given,
The diameter of the base = 14 m
The volume of the cylinder = 3696 m^3
Formula:
The volume of the cylinder = $\pi r^2 h$ [where r = 14/2 = 7 m]
According to the question:-
⇒ $\pi r^2 h$ = 3696
⇒ h = 3696/πr^2 = (3696 × 7)/(22 × 7 × 7)
⇒ h = 3696/(22 × 7) = 24 m
Alternative method :
The volume of cylinder = Capacity of cylinder
⇒ $\pi r^2 h = 3696$
⇒ h = (3696)/(π × 49)
⇒ h = 24 m

Q:8 The correct answer is **option 3** i.e. **25.**
Let the cost price of the article = P
So,
Marked price of the article = P × (100 + x)/100
And
Selling price of the article = P × 115/100 = 23P/20
From the question:
(23P/20) − P = 54
⇒ P = 360
The Selling price of the article = 360 × 23/20 = Rs. 414
The Marked price of the article = (414 + 36) = Rs. 450
So,
P × (100 + x)/100 = 450

⇒ 360 × (100 + x)/100 = 450
⇒ 100 + x = 125
⇒ x = 25

Q:9 The correct answer is **option 1** i.e. **25**
Let the number be x
So, according to the question,
⇒ 21x = x^2 - 100
⇒ x^2 - 21x -100 = 0
⇒ x^2 - 25x + 4x - 100 = 0
⇒ (x - 25) (x + 4) = 0
⇒ x = 25 or x = -4
But, given that the number is a positive number,
Hence, x = 25

Q:10 The correct answer is **Option 4** i.e. **Rs. 8120.**
Principal = Rs. 14500
Rate of Interest = 10% per annum
Simple Interest = (Principal × Rate × Time)/100
Simple Interest for 2 years = (14500 × 10 × 2)/100 = Rs. 2900
Interest is added in principle,
New principal = (14500 + 2900) = Rs. 17400
Simple Interest for next 3 years = (17400 × 10 × 3)/100 = Rs. 5220
Total Interest after 5 years = (Rs. 2900 + Rs. 5220) = Rs. 8120

Q:11 The correct answer is **Option 1** i.e. **120 meters.**
If the two objects are moving in the same direction then, the relative speed = Difference in their speed
Distance = Speed × Time
Let the length of the train = x meters
So, the relative speed of train = (30 - 10) = 20 m/sec
The total distance covered by the train is the length of the train
Length of the train = (20 × 6) = 120 metres

Q:12 The correct answer is **option 3** i.e. **20/3%.**
The tuition fee of class VIII = Rs 1120
The tuition fee of class X = Rs 1200
The tuition fee of class VIII is (1200 - 1120) = 80 less than that of Class X.
Percentage less = (80 × 100)/1200 = 20/3%

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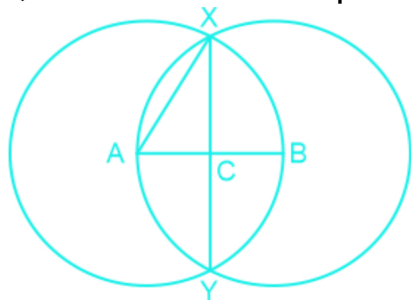**Q:13** The correct answer is **option 1** i.e. **- 3/5.**
We know that
$\Rightarrow \sin 2\emptyset = 2\tan\emptyset/(1 + \tan^2\emptyset)$
$\Rightarrow \sin 2\emptyset = (2 \times -1/3)/(1 + 1/9)$
$\Rightarrow \sin 2\emptyset = (-2/3)/(10/9) = -3/5$

Q:14 The correct answer is **option 1** i.e. **6√3 cm**

In the given figure, let 'A' and 'B' represent the centres of the two circles and let XY represent the common chord.
Since the two circles have equal radii and pass through the centre of each other, so, XY bisects AB at 'C'.
We have AB = radii = 6 cm
$\Rightarrow$ AC = (6/2) = 3 cm
$\Rightarrow$ AX = radii = 6 cm
We have, $\angle ACX = 90^o$ {Since a line drawn from the centre of the circle is the perpendicular bisector of the chord}
$\Rightarrow$ CX = CY = (XY/2)
$\Rightarrow AX^2 = AC^2 + CX^2$
$\Rightarrow CX^2 = 6^2 - 3^2 = 27$
$\Rightarrow$ CX = 3√3 cm {Since length cannot be negative}
So, XY = 2 × 3√3 = 6√3 cm

Q:15 The correct answer is **option 3** i.e. **48**.
We have given in the question,
x + y = 7
1/x + 1/y = 98/(x + y)
$\Rightarrow$ (x + y)/xy = 98/(x + y)
$\Rightarrow$ 7/xy = 98/7
$\Rightarrow$ xy = 1/2
$(x + y)^2 = 7^2$
$\Rightarrow x^2 + y^2 + 2xy = 49$
$\Rightarrow x^2 + y^2 + 2 \times 1/2 = 49$
$x^2 + y^2 = $ **48**

Q:16 The correct answer is **option 1** i.e. **22.5 years.**

$\Rightarrow$ A : B = X : Y
Sachin' age = (5 + Virat's age)
$\Rightarrow$ S = (5 + V).....(1)
Where, S = Sachin and V = Virat
$\Rightarrow$ S : V = 5 : 3 put in (1)
$\Rightarrow$ 5x = (5 + 3x)
$\Rightarrow$ 2x = 5
$\Rightarrow$ x = 2.5
The present age of Sachin = (2.5 × 5) = 12.5
After 10 years = (12.5 + 10) = 22.5 years
Hence, After 10 years the age of Sachin is 22.5 years

Q:17 The correct answer is **option 2** i.e. **Rs.700.**
The marked price o the article is x
Selling price = Rs.630 and,
Discount = 10%
We can directly put these values in the formulae
M.P. = (S.P. × 100)/(100 - D)
M.P. = (630 × 100)/(100 - 10)
M.P. = (630 × 100)/90
M.P. = Rs.700

Q:18 The correct answer is **Option 2** i.e. **36000.**
$\Rightarrow$ 1200, 1800, 2400, 600, 15, 36000
Factors:
$\Rightarrow 1200 = (2^4 \times 3 \times 5^2)$
$\Rightarrow 1800 = (2^3 \times 3^2 \times 5^2)$
$\Rightarrow 2400 = (2^5 \times 3 \times 5^2)$
$\Rightarrow 600 = (2^3 \times 3 \times 5^2)$
$\Rightarrow 15 = (3 \times 5)$
$\Rightarrow 36000 = (2^5 \times 3^2 \times 5^3)$
LCM of 1200, 1800, 2400, 600, 15, 36000
$\Rightarrow (2^5 \times 3^2 \times 5^3) = 36000$

Q:19 The correct answer is **option 4** i.e. **60%.**
Calculations:
Total number of magazines sold = 3000
Total number of copies sold of magazine A = 20% of 3000 = 600
Total number of copies sold of magazine B = 12% of 3000 = 360
Required percentage = (360/600) × 100 = 60%

Q:20 The correct answer is **option 2** i.e. **700.**
Calculations:

Total number of magazines = 3000
Total number of magazine A = 20% of 3000 = 600
Total number of magazine D = 13% of 3000 = 390
Total number of magazine E = 37% of 3000 = 1110
Sum = (600 + 390 + 1110) = 2100
Required average = 2100/3 = 700

Q:21 The correct answer is **Option 4** i.e. **Rs. 1619.5**.
Total Simple interest on an amount for 2 years = (2 × 10%) = 20%
Simple interest = PRT/100 = (3950 × 2 × 10)/100 = 790
Total Compound Interest on an amount for 2 years = 10% + 10% + 10% of 10% = 21%
Compound interest = 3950 × 21% = 829.5
Total interest received = 790 + 829.5 = 1619.5

Q:22 The correct answer is **Option 1** i.e. **Rs 396.**
The surface area of the cylinder = $2\pi rh$
Total area for leveling the ground = Number of revolutions × Surface area
The cost of leveling = Cost per unit × total area
Radius of the roller = 21/2 cm and, its length = 100 cm
Area covered by the roller in 1 revolution
$\Rightarrow$ 2 (22/7) (21/2) × 100 = 6600 cm^2
Area covered by the roller in the 1200 revolution
$\Rightarrow$ 1200 × 6600 = 7920000 cm^2 = 792 m^2
The cost of leveling the ground
$\Rightarrow$ 792 × (50/100) = Rs.396

Q:23 The correct answer is **Option 4** i.e. **62.**
Average = sum of score/total number of subjects
Wrong average = 65
Previous incorrect sum = (65 × 5) = 325
Correct sum = 325 - 70 + 55 = 310
Correct average = 310/5 = 62

Q:24 The correct answer is **Option 3** i.e. **58.6 days.**
Amount of work 15 men complete in one day = 1/86 of total work.
Amount of work 1 man complete in 1 day = 1/(86 × 15) = 1/1290 of total work
Amount of work 22 men complete in 1 day = 22/1290 = 11/645
Number of days 22 men take to finish the work = 645/11 = 58.6 days

Q:25 The correct answer is **option 1** i.e. **Loss of 2.8%.**
Let the cost price be Rs.100
After applying a 20% markup
$\Rightarrow$ 100 × 1.2 = Rs.120
After two successive discounts
$\Rightarrow$ 120 × 0.9 × 0.9 = 97.2
$\Rightarrow$ 100 - 97.2 = 2.8% loss
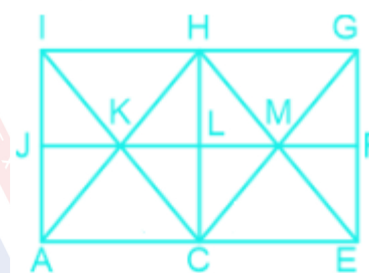
Q:26 The correct answer is **Option 3** i.e. **c.**
ⱳ⋊ɣ☺Ω⅋}⌐⅁⊢⌗ꞙ
The mirror image is shown below:

a⌗4⅁L{⅋Ω@ɣKⱳ | ⱳ⋊ɣ☺Ω⅋}⌐⅁⊢⌗ꞙ

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

Q:27 The correct answer is **Option 2** i.e. **28.**
The figure:

Triangles are: IKJ, JKA, KAC, KLC, KLH, IHK, IKA, HKC, ICA, IHC, IHA, HCA, HML, LMC, MCE, MFE, GMF, GMH, HMC, GME, HGC, GCE, HGE, HCE, ICG, HAE, HKM, KMC
So, there are 28 triangles in the given figure.
Hence, **28** is the correct answer.

Q:28 The correct answer is **Option 4** i.e. **184.**
The pattern followed here is as follows:
The difference between two consecutive numbers is square of consecutive prime numbers starting from 2².
16 + 2² = 16 + 4 = 20
20 + 3² = 20 + 9 = 29
29 + 5² = 29 + 25 = 54
54 + 7² = 54 + 49 =103
103 + 11² = 103 + 121 = 224
So, '184' is the wrong term in the given series.
Hence,184 is the correct answer.

Q:29 The correct answer is **Option 3** i.e. **27 : 756.**
The logic followed here is as follows:

In 32 : 1088
32 × [32 + 2] = 32 × 34 = 1088
In 24 : 624
24 × [24 + 2] = 24 × 26 = 624
In 17: 323
17 × [17 + 2] = 17 × 19 = 323
But in 27: 756
27 × [27 + 2] = 27 × 29 = 783 ≠ 756
Hence, **27 : 756** is the correct answer.

Q:30 The correct answer is **Option 2** i.e. **02:34.**
The logic followed here is as follows:
1) If the time is between 1 and 11 then to find the actual time, the given time is subtracted by 11:60.
2) If the time is between 11 and 1 then to find the actual time, the given time is subtracted by 23:60.
As, the time is between 1 and 11, so, the given time is subtracted by 11:60.
11:60 - 9:26 = 2:34
So, the time shown in the clock is 02:34 hrs.
Hence, **02:34** is the correct answer.

Q:31 The correct answer is **Option 3** i.e. **98.**
The logic followed here is as follows:
23 + 5 = 23 + 5 = 28
28 + 10 = 28 + 10 = 38
38 + 15 = 38 + 15 = 53
53 + 20 = 53 + 20 = 73
73 + 25 = 73 + 25 = **98**
Hence, **98** is the correct answer.

Q:32 The correct answer is **Option 4** i.e. **2, 5, 1, 3, 4.**
The correct arrangement of the given words in the order in which they appear in an English dictionary is:
2- **Tama**rind**,** 5- **Tamb**ura**,** 1- **Tampe**red, 3- **Tampi**ng**,** 4- **Tampio**n
So, '2, 5, 1, 3, 4' represents the correct dictionary order.
Hence, '**2, 5, 1, 3, 4**' is the correct answer.

Q:33 The correct answer is **Option 2** i.e. **522.**
The logic followed here is as follows, the second number is equal to the sum of the first number and half of the first number.
In 234 : 351
234 + 234 ÷ 2

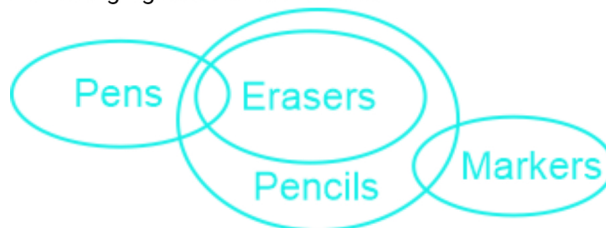= 234 + 117
= 351
Similarly, in 348 : ?
348 + 348 ÷ 2
= 348 + 174
= 522
'522' is related to the third number in the same way as the second number is related to the first number.
Hence, **522** is the correct answer.

Q:34 The correct answer is **Option 4** i.e. **Only conclusions II and III follow.**
Following figures can be formed:

I. Some Markers are Pens: **False** [As there is no direct relation between Pens and Markers, so, no possible conclusion follows]
II. Some Pencils are Erasers: **True** [As All Erasers are Pencils and some Pens are Erasers, so, those Pencils, which are Erasers are also Pens]
III. All Markers can be Erasers: **True** [As no direct relation between Markers and Erasers. So, all possible conclusions follow]
Therefore, only conclusions II and III follow.
Hence, **only conclusions II and III follow** is the correct answer.

Q:35 The correct answer is **Option 2** i.e. **225.**
Given expression: 156 - 4 × 24 ÷ 12 + 124 × 34 + 108 - 9
After changing the signs
156 ÷ 4 + 24 × 12 - 124 + 34 - 108 ÷ 9
= 39 + 288 - 124 + 34 - 12
= 361 - 136
= 225
So, the value of the given expression is '225'.
Hence, **225** is the correct answer.

Q:36 The correct answer is **Option 3** i.e. **Q.**
When we write the symbols in the clockwise direction from 'R'

For position 1: 'R, Q, P'
For position 2: 'R, S, T'
'Q' will be at the opposite face of 'S'.
Hence, **Q** is the correct answer.

Q:37 The correct answer is **Option 1** i.e. **70.**
The logic followed here is:
Addition of place value of consonants as per English alphabetical series.
In FLOWERS:
Place value of all the consonants, F = 6, L = 12, W = 23, R = 18 and S = 19;
6 + 12 + 23 + 18 + 19 = 78
Similarly, in MASTER:
Place value of all the consonants M = 13, S = 19, T = 20 and R = 18
13 + 19 + 20 + 18 = 70
So, 'FLOWERS' is related to '78' in the same way 'MASTER' is related to '70'.
Hence, **70** is the correct answer.

Q:38 The correct answer is **Option 1** i.e. **252.**
Here, the pattern is:
'WHITE' is coded as '260' -
W (23), H (8), I (9), T (20), E (5)
23 + 8 + 9 + 20 + 5 = 65 × 4 = 260
'BROWN' is coded as '288' -
B (2), R (18), O (15), W (23), N (14)
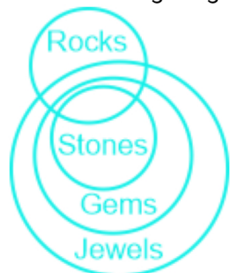2 + 18 + 15 + 23 + 14 = 72 × 4 = 288
Similarly,
'OLIVE' will be written as -
O (15), L (12), I (9), V (22), E (5)
15 + 12 + 9 + 22 + 5 = 63 × 4 = **252**
Hence, **252** is the correct answer.

Q:39 The correct answer is **Option 1** i.e. **Only conclusion I and II follow.**
The following diagram:

Conclusions:
Some jewels are stones: **True** All gems are jewels. Some rocks are stones. All stones are gems. Thus, some jewels are stones. So, conclusion I is true.
Some rocks are gems: **True** Some rocks are stones. All stones are gems. Thus, some rocks are gems. So, conclusion II is true.
All jewels are stones: **False** All gems are jewels. All stones are gems. Thus, all jewels cannot be stones. So, conclusion III is false.
So, only conclusions I and II follow.
Hence, **only conclusions I and II follow** is the correct answer.

Q:40 The correct answer is **Option 3** i.e. **Granddaughter.**
After decoding we get,
Q @ A & V * B @ U # L & A
Q @ A means 'Q is the mother of A'.
A & V means 'A is the son of V'.
V * B means 'V is the father-in-law of B'.
B @ U means 'B is the mother of U'.
U # L means 'U is the sister of L'.
L & A means 'L is the son of A'.
The final diagram:
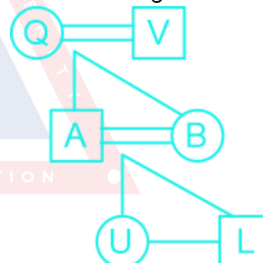
So, U is the granddaughter of Q.
Hence, **Granddaughter** is the correct answer.

Q:41 The correct answer is **Option 2** i.e. **II.**
The given figure is embedded in option figure II.

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

Q:42 The correct answer is **Option 1** i.e. **× and -.**

From 1:
2 - 13 + 45 ÷ 9 × 6 = 19
2- 13 + 30 = 19
19 = 19
LHS = RHS
From 2:
2 ×13 - 45 ÷ 9 + 6 = 19
26 - 5 + 6 = 19
27 = 19
So, LHS is not equal to RHS
From 3:
2 ÷ 13 + 45 × 9 - 6 = 19
399(2/13) = 19
So, LHS is not equal to RHS
From 4:
2 × 13 + 45 - 9 ÷ 6 = 19
26 + 45 - 2 ÷ 3 = 19
70(1/3) = 19
So, LHS is not equal to RHS
Hence, **× and -** is the correct answer.

Q:43 The correct answer is **Option 1** i.e. **SHAM.**
The pattern is:
V + 3= Y; Y + 3 = B; B + 3 = E. So, S + 3 = V
L + 4 = P; P+ 4= T; T+ 4= X. So, H + 4 = L
F + 5 = K; K + 5 = P; P + 5 = U. So, A + 5 = F
S + 6= Y; Y + 6 = E; E + 6= K. So, M + 6 = S
Hence, **SHAM** is the correct answer.

Q:44 The correct answer is **Option 4** i.e. **53.**
It is given that, '@' means 'addition', '%' means 'multiplication', '$' means 'division' and '#' means 'subtraction'
After decoding, the expression will be: 56 × 2 + 183 ÷ 3 - 120
=112 + 61 - 120
=173 - 120
= 53
Hence, **53** is the correct answer.

Q:45 The correct answer is **Option 2** i.e. **Butterfly.**
Adult is the grown form of a toddler similarly butterfly is the grown form of a larva.
Hence, **Butterfly** is the correct answer.

Q:46 The correct answer is **Option 3** i.e. **III.**
In each step the arrow is rotating in a clockwise manner and the shaded region is shifting downwards. Hence, figure (III) will come next in the given series.
Hence, **III** is the correct answer.

Q:47 The correct answer is **Option 3** i.e. **(89, 45, 178).**
78 + 71 + (78 - 71) = 156
37 + 22 + (37 - 22) = 74.
1) 68 + 19 + (68 - 19) = 136
2) 91 + 67 + (91 - 67) = 182
3) 89 + 45 + (89 - 45) = 178
4) 72 + 27 + (72 - 27) = 144
Hence, **(89, 45, 178)** is the correct answer.

Q:48 The correct answer is **Option 3** i.e. **3.**
N is taller than L. K is taller than U. P is shorter than G. C is taller than N but shorter than U. L is taller than G.
So we get:
K > U > C > N > L > G > P
Three people are taller than N.
Hence, **3** is the correct answer.

Q:49 The correct answer is **Option 1** i.e. **NO.**
FG, NO, WX, EF, ?
F + 1 = G, G + 7 = N
N + 1 = O, O + 8 = W
W + 1 = X, X + 7 = E
E + 1 = F, F + 8 = N
N + 1 = O
So, the missing letter cluster is NO.
Hence, **NO** is the correct answer.

Q:50 The correct answer is **Option 2** i.e. **44.**
The logic:
11---- 11^2 = 121; 11 × 3 = 33; 121 + 33 = 154; 154 ÷ 2 = 77
14----14^2 = 196; 14 × 3 = 42; 196 + 42 = 238; 238 ÷ 2 = 119
8------8^2 = 64; 8 × 3 = 24; 64 + 24 = 88; 88 ÷ 2 = 44
Hence, **44** is the correct answer.

Q:51 The correct answer is option 2 i.e. **more.**
- '**More**' is the comparative form of the adjective that is followed by the preposition'**Than**'.
- The statement contains 'than' hence, '**More _____ than**' will make a suitable pair here.

Hence, the chosen option will be correct.

Q:52 The correct answer is option 2 i.e. **no.**

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- '**No**' is a determiner that is followed by the '**Noun**.
- '**None**' is a pronoun that comes in place of a noun.
- '**Not**' is an adverb that comes before an adjective.
- In the given statement we have '**Noun**' hence, '**No**' will be the correct choice.

Hence, the chosen option will be correct.

Q:53 The correct answer is option 3 i.e. **emotion**.
Let's have a look at the meaning of the given options:-
- **emotion**- a strong feeling such as love, anger, fear, etc.
- **instinct**- the natural force that causes a person or animal to behave in a particular way without thinking or learning about it.
- **fervour**- very strong feelings about something; enthusiasm.
- **reaction**- something that you do or say because of something that has happened.

'**Emotion**' which means '**a strong feeling such as love, anger, fear, etc.**' fits the context appropriately.
Hence, the chosen option will be correct.

Q:54 The correct answer is option 1 i.e. **missing**.
- '**Be**' form of the verb is followed by the '**Present participle**' form of the verb.
- The chosen is in the form of '**Present participle**' hence, it will suit the given blank.

Hence, the chosen option will be correct.

Q:55 The correct answer is option 3 i.e. **feel**.
- A modal verb is followed by the '**First form of the verb**'.
- '**Can't** feel' will be the correct phrase here.

Hence, the chosen option will be correct.

Q:56 The correct answer is option 1 i.e. **an extremely fast.**
- '**Article + adverb + adjective + noun**' is the correct noun phrase.
- '**Fast**' is an adjective here hence, we need to use an adverb before it hence, '**Extremely**' will be the correct choice here.
- The chosen option follows the given rules hence, it will **IMPROVE** the statement correctly.

Correct Sentence:-
The Pine Island glacier in West Antarctica in the Southern hemisphere has been losing its snow-mass at __an extremely fast__ rate since 2017.

Q:57 The correct answer is option 3 i.e. **No Improvement.**
- **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 underlined part of the statement follows the given rules and is correct in itself hence, '**No Improvement**' will be the correct choice.

Correct Sentence:-
__Once the tree has been__ classified as a 'heritage tree', it will be accorded more protection.

Q:58 The correct answer is option 2 i.e. **healthy**.
Let's have a look at the meaning of the given options:-
- **healthy**- showing good health (of body or mind).
- **hardy**- strong and able to survive difficult conditions and bad weather.
- **pure**- not mixed with anything else.
- **clean**- having no record of offences or crimes.

'**Healthy**' which means '**showing good health (of body or mind)**' fits in the context appropriately.
Correct Sentence:-
*High-quality child care keeps children safe and **healthy**.*

Q:59 The correct answer is option 2 i.e. **its first**.
- The statement is showing relation/possession of china hence, we need to use possessive case '**its**' here.
- Between a possessive adjective and adjective, we can not any article.
- The chosen option follows the given rules hence, it will suit the blank.

Correct Sentence:-
*China successfully completed **its first** return mission to the moon with its unmanned orbiter landing back on Earth*

Q:60 The correct answer is option 2 i.e. **The garden should not be entered without the token.**
Active voice- Do + not + v1 + object + other words.
Passive voice- Object + should not be + V3 + other

words.

As the chosen option follows this structure it will be the correct answer.

Q:61 The correct answer is option 4 i.e. **My father asked me if I could give one piece of biscuit to the beggar.**
- 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**' should 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:62 The correct answer is option 3 i.e. **Hinting at high connection.**
The meaning of the given idiom is:-
Dropping names- Hinting at high connection.
As the meaning of the given idiom is the same as the chosen option it will be correct.

Q:63 The correct answer is option 2 i.e. **An important day.**
The meaning of the given idiom is:-
A red-letter day- An important day.
As the meaning of the given idiom is the same as the chosen option it will be correct.

Q:64 The correct answer is option 4 i.e. **Emboldan.**
Let's have a look at the meaning of the given options:-
- **Tender**- to offer or give something formally.
- **Abash**- make (someone) feel embarrassed, disconcerted, or ashamed.
- **Encourage**- to give hope, support or confidence to somebody.
- **Embolden**- give (someone) the courage or confidence to do something.

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

Q:65 The correct answer is option 1 i.e. **Ademant.**
Let's have a look at the meaning of the given options:-
- **Adamant**- not existing in large quantities; hard to

find.
- **Stubborn**- not wanting to do what other people want you to do; refusing to change your plans or decisions.
- **Obdurate**- refusing to change your mind to do what people want you to do.
- **Inflexible**- that cannot be changed or made more suitable for a particular situation; rigid.

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

Q:66 The correct answer is option 2 i.e. **Attraction.**
Let's have a look at the meaning of the given options:-
- **Cynosure**- a person or thing that is the centre of attention or admiration.
- **Trouble**- (a situation that causes) a problem, difficulty or worry.
- **Attraction**- a feeling of liking somebody/something.
- **Panacea**- something that will cure all diseases or solve all problems and difficulties; a universal remedy.
- **Harmony**- a state of agreement or of peaceful existence together.

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

Q:67 The correct answer is option 2 i.e. **Intentional.**
Let's have a look at the meaning of the given options:-
- **Deliberate**- done on purpose; planned.
- **Incidental**- happening as part of something more important.
- **Intentional**- done on purpose, not by chance.
- **Awful**- very bad or unpleasant.
- **Deplorable**- morally bad and deserving disapproval.

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

Q:68 The correct answer is option 1 i.e. **Experienced.**
Let's have a look at the meaning of the given options:-
- **Callow**- (of a young person) inexperienced and immature.
- **Experienced**- having the knowledge or skill that is necessary for something.
- **Naive**- without enough experience of life and too ready to believe or trust other people.
- **Wary**- careful because you are uncertain or afraid of somebody/something.
- **Nagging**- to continuously complain to somebody about his/her behaviour or to ask him/her to do

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something many times.

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

Q:69 The correct answer is option 4 i.e. **Enmity**.

Let's have a look at the meaning of the given options:-

- **Camaraderie**- a feeling of friendship and trust among a group of people who work together or share an experience.
- **Companionship**- the pleasant feeling of having a friendly relationship with somebody and not being alone.
- **Intimacy**- the state of having a close personal relationship with somebody.
- **Desperation**- loss of hope and surrender to despair.
- **Enmity**- the feeling of hatred towards an enemy.

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

Q:70 The correct answer is option 3 i.e. **Subpoena**.

Let's have a look at the meaning of the given options:-

- **Courtship**- the relationship between a man and a woman before they get married.
- **Agreement**- the state of agreeing with somebody/something.
- **Subpoena**- a written order to attend a court of law to give evidence.
- **Command**- an instruction given to a computer.

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

Q:71 The correct answer is option 3 i.e. **Expurgate**.

Let's have a look at the meaning of the given options:-

- **Besiege**- to surround a place with an army.
- **Diagnose**- to find out and say exactly what illness a person has or what the cause of a problem is.
- **Expurgate**- remove matter thought to be objectionable or unsuitable from (a text or account).
- **Damage**- harm or injury caused when something is broken or spoiled.

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

Q:72 The correct answer is option 1 i.e. **DACB**.

- **Statement D** is independent and defines the theme

of the paragraph '**WTO**' hence, it will be the opening statement.

- **Statement A** talks about the function of WTO hence, it will come after D.
- Statement C shows the number of countries involved in WTO hence, it will come after A.
- Finally, B will come at the end of the arrangement.
- Now we have the final arrangement i.e. **DACB**.

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

Correct Arrangement:-

The purpose of the WTO is to ensure global trade commences smoothly, freely, and predictably. The WTO creates and embodies the ground rules for global trade among member nations, offering a system for international commerce. The WTO has 164 members that have ratified the rules of the WTO in their individual countries as well. This means WTO rules become part of a country's domestic legal system. The rules thus apply to local companies conducting business in the international arena.

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 2 i.e. **DBAC**.

- **Statement D** is independent and defines the theme of the paragraph '**Kathak**' hence, it will be the opening statement.
- **Statement B** talks about the storytellers that are being defined in statement **A** hence, **A** will come after **B**.
- Finally, C will come at the end of the statement.
- Now we have the final arrangement i.e. **DBAC**.

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

Correct Arrangement:-

Kathak is one of the eight major forms of Indian classical dance. The origin of Kathak is traditionally attributed to

the travelling bards of ancient northern India known as Kathakars or storytellers. The term Kathak is derived from the Vedic Sanskrit word Katha which means 'story', and Kathakar which means 'the one who tells a story', or 'to do with stories'. Kathak is found in three distinct forms, called 'gharanas', named after the cities where the Kathak dance tradition evolved – Jaipur, Banaras and Lucknow.

Some common rules that help while solving the Para Jumbles:-

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- 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 3 i.e. **the pandemic will be reopen now.**

- The error lies in **option 3** because of the wrong use of '**Voice**'.
- We need to replace '**Reopen**' with '**Reopened**' for making the statement grammatically correct.

Grammatical concept:-

- '**Model verb + be + past participle**' is the correct passive verb phrase.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

The Taj Mahal and other centrally protected monuments closed for around two months due to **the pandemic will be reopened now.**

Q:75 The correct answer is option 1 i.e. **along the country and.**

- The error lies in **option 1** because of the wrong use of '**Preposition**'.
- We need to replace '**Along**' with '**Across**' for making the statement grammatically correct.

Grammatical concept:-

- '**Along**' means '**from one end to or towards the other end of something**' while '**Across**' means

'**covering international/national boundaries**'.

- The statement is talking about the world hence, '**Across**' will be the correct choice here.
- The chosen option contains the **ERROR** hence, it will be the correct choice.

Correct Sentence:-

Around one crore devotees from **across the country and** abroad visit the Vaishno Devi shrine atop the Trikuta hills annually.

Q:76 The correct answer is **option 3** i.e. **UAE.**
UAE successfully launches first-ever Arab-Built lunar spacecraft.
A) A SpaceX Falcon 9 rocket carried into space the first ever Arab-built lunar spacecraft. It was launched from the Cape Canaveral Space Force Station in Florida.
B) The Rashid Rover was built by Dubai's Mohammed bin Rashid Space Centre (MBRSC), in the United Arab Emirates (UAE), and is being delivered by the HAKUTO-R lander, engineered by Japanese lunar exploration company ispace.

Q:77 The correct answer is **Option 2** i.e. **Peter Handke**.
1. He won the 2019 Nobel Prize in Literature.
2. He established himself as one of the most influential writers in Europe after the Second World War.

Q:78 The correct answer is **option 3** i.e. **Football.**
1. Pradip Banerjee was born on **23 June 1936 in Jalpaiguri, Bengal Presidency, British India.** He is a f**ormer Indian footballer and football coach. He played as a winger.**
2. He represented India in three Asian Games – 1958 in Tokyo, 1962 in Jakarta, where India won the gold medal, and 1966 in Bangkok.
3. At the 1956 **Summer Olympics held in Melbourne**, he was a part of the national team. He was captain of the Indian national team at the 1960 **Summer Olympics in Rome**, where he scored an equalizer against France in a 1-1 draw.
4. He was one of the first recipients of **the Arjuna Award** when the awards were instituted in 1961. He was awarded the prestigious **Padma Shri Award** in 1990 and was named **Indian Footballer of the 20th Century by FIFA.** He received the **"Mohun Bagan Ratna"** award in 2011.

Q:79 The correct answer is **option 1** i.e. $s = ut + 1/2\ at^3$.
- 3 equations of motion are:
- $v = u + at$

$s = ut + 1/2at^2$

- $v^2 = u^2 + 2as$

Where,

- v= Final velocity
- u= Initial velocity
- a= Acceleration
- t= Time
- s= Displacement
- These equations are valid for a body under unform acceleration.
- Hence, the equation in option 1 is not an equation of motion.

Q:80 The correct answer is **option 1** i.e. **Kanchipuram.**
Simha Vishnu, the dynasty's founder, was credited as being a very effective and powerful conqueror and king. Simha Vishnu died, and Mahendravarman, his son, took over and ruled from roughly 571 until 630 CE.

Dynasty	Capital
Pallava	Kanchipuram
Anga	Champa
Vajji	Vaishali
Kosala	Shravasti

Q:81 The correct answer is **option 3** i.e. **Venkaiah Naidu.**
Ex-Vice President Naidu received SIES award for public leadership.
A) Former Vice President Venkaiah Naidu on Saturday received the SIES national eminence award for public leadership here.
B) Other awardees in various categories included the Governor of Kerala, Arif Mohammed Khan, eminent industrialist Ratan Tata etc.

Q:82 The correct answer is **option 3** i.e. **Hyderabad**.
Hyderabad is selected to host the WEF Center for the Fourth Industrial Revolution.
A) The World Economic Forum (WEF) has chosen Hyderabad for establishing its Center for the Fourth Industrial Revolution focused on healthcare and life sciences.
B) The C4IR Telangana will be an autonomous, non-profit organisation and the only such World Economic Forum in India with a thematic focus on healthcare and life sciences, Industries and IT

Minister K.T. Rama Rao's office said after Telangana government and WEF entered into a collaboration agreement at the Forum's annual meeting in Davos, Switzerland.

Q:83 The correct answer is **option 4** i.e. **Jhumpa Lahiri.**

Author	Books
Khushwant Singh	Train to Pakistan The Sunset Club The Company of Women
Shashi Tharoor	An Era of Darkness Why I Am A Hindu The Paradoxical Prime Minister India From Midnight to the Millennium
Manmohan Singh	Changing India The Quest for Equity in Development Collateral and Monetary Policy Collateral and Financial Plumbing
Jhumpa Lahiri	Unaccustomed Earth The Namesake Interpreter of Maladies

Q:84 The correct answer is **option 2** i.e. **Sigma bond.**
A pi bond is a weaker chemical covalent bond than a sigma bond (since π bonds have a smaller overlap between the orbitals), but when it is put with a sigma bond it creates a much stronger hold between the atoms, thus double and triple bonds are stronger than single bonds.

Q:85 The correct answer is **option 1** i.e. **Right to Vote.**
1. The right to vote is a constitutional right as per provisions of Article 326 of the Constitution but it is not a fundamental right.
2. Right to life- Article 21
3. Right against exploitation- Article17
4. Right to Constitutional remedies- Article 32

Q:86 The correct answer is **option 1** i.e. **Directive**

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Principles of State Policy.

Understanding:		
PART I	THE UNION AND ITS TERRITORIES	Article (1 - 4)
PART II	CITIZENSHIP	Article (5 - 11)
PART III	FUNDAMENTAL RIGHTS	Article (12 - 35)
PART IV	DIRECTIVE PRINCIPLES OF STATE POLICY	Article (36 - 51)
PART IVA	FUNDAMENTAL DUTIES	Article 51A

Q:87 The correct answer is **option 1** i.e. **Devendranath Tagore**.

Founder	Newspaper/Magazine
Devendranath Tagore	Indian Mirror
Bal Gangadhar Tilak	Kesari
Gopal Krishna Gokhale	Sudharak
Mahatma Gandhi	Indian Opinion, Harijan
Aurobindo Ghosh	Bande Mataram
Motilal Nehru	Independent
Annie Besant	New India

Q:88 The correct answer is **option 4** i.e. **Jammu-Kashmir.**
Jammu and Kashmir becomes first Indian UT to completely shift to e-governance mode.
A) Leading the digital transformation in governance, Jammu and Kashmir has become the first union territory (UT) in India to have entirely shifted to digital mode of administration.
B) According to an order issued by the UT chief secretary Dr Arun Kumar Mehta, all governance and administrative services in the state are now 'only' available digitally.

Q:89 The correct answer is **option 4** i.e. **Prairies.**
- The grasslands in North America are called "**Prairies**".

Grasslands are areas covered in grasses and grass-like plants. The rain is scarce and hence the ecosystem is quite fragile.
- **Pampas** are temperate grasslands in South America.
- **Steppes** are temperate grasslands in Central Asia.
- **Canterbury** are temperate grasslands in New Zealand.

Q:90 The correct answer is **option 2** i.e. **Manohar Parrikar International Airport.**
Prime Minister Narendra Modi inaugurated Mopa International Airport in Goa, which has been named after former Chief Minister Manohar Parrikar. The new airport, which is about 35 km from the capital city of Panaji, can handle 44 lakh passengers annually.

Q:91 The correct answer is **option 1** i.e. **Petroleum.**
- An increase in the price of Petroleum will have a ripple effect in increasing the prices of many products, thereby resulting in inflation.
- Energy is an important part of anything that is produced and distributed and fluctuations in prices will have an impact on the agriculture sector and products like sugar and cotton, as well.

Q:92 The correct answer is **option 2** i.e. **Bryophytes**.
In general, Botanists group plants into two major groups:
Non-vascular
- As their name implies, non-vascular plants lack vascular tissues that can help them transport water and nutrients.
- The most common non-vascular plants include the members of the Phylum Bryophyta.

Vascular
- Vascular plants have been allowed by evolution to possess vascular tissues (xylem and phloem) that aid them to transport water and minerals.
- All other plants like the members of the Phylum Pteridophyta, Gymnosperms, and Angiosperms are classified as vascular plants.

Q:93 The correct answer is **option 2** i.e. **Pacific Ocean.**
- The **Mariana Trench** is located in the **Pacific Ocean.** It is the deepest trench on the floor of the western North Pacific Ocean.
- It is part of the western Pacific system of oceanic trenches that coincides with the subduction zone where two adjacent tectonic plates collide with each other, one being forced below the other.

The deepest point of the Indian Ocean is in the **Sunda Deep of the Java Trench.**
- The deepest point of the Arctic Ocean is Litke Deep in the Eurasian Basin.
- Milwaukee Depth is the deepest point in the Atlantic Ocean in the northwest of Puerto Rico's island.

Q:94 The correct answer is **option 3** i.e. **Lothal**.

Site	State	Information
Kalibangan	Rajasthan	The site contains both pre-Harappan and Harappan remains. Fire Altars, ploughed field, wooden furrows, and bones of camels are found on this site.
Mohenjo-Daro	Sindh, Pakistan	It is called Mound of the Dead. The site was discovered in the 1920s. It has a citadel mound.
Lothal	Gujarat	Lothal is an important archaeological site due to its scientific layout and massive dockyard that facilitated trade with other civilizations of the time. It used to have an excellent drainage system.
Dholavira	Gujarat	The city of Dholavira was found to be very well-planned, divided into three stages to form a layered city with a lower town, a quadrangular middle town and a citadel.

Q:95 The correct answer is **option 1** i.e. **Meghalaya**.
Laho is a famous dance form of **Meghalaya**. It is also known as the Chipiah dance. The folk dance forms of Manipur, Kerala and Maharashtra are Manipuri, Kathakali, Tamasha respectively.

Q:96 The correct answer is **option 1** i.e. **1914-1918.**
- The first world war was fought between **28 July 1914 and 11 November 1918**.
- During the conflict, Germany, Austria-Hungary, Bulgaria and the Ottoman Empire (the Central Powers) fought against Great Britain, France, Russia, Italy, Romania, Japan and the United States (the Allied Powers).
- The war ended with the defeat of the Central Powers. It resulted in the Bolshevik Revolution in Russia, and, in its destabilization of European society, laid the groundwork for World War II.

Q:97 The correct answer is **option 3** i.e. **Ecuador.**

Country	Capital	Currency	Mountain Peak
India	New Delhi	Rupee	Kanchenjunga
France	Paris	Euro	Mont Blanc
Ecuador	Quito	Dollar	Cotopaxi
Indonesia	Jakarta	Rupiah	Puncak Jaya

Q:98 The correct answer is **option 1** i.e. **A D Damodaran.** Renowned scientist, and former CSIR director A D Damodaran died at 87.
A) Kerala Chief Minister Pinarayi Vijayan condoled the death and said the country has lost a scientist known for his expertise in nuclear science.
B) He had been associated with leading nuclear science and research institutes in the country.

Q:99 The correct answer is **option 4** i.e. **Femur.**
- The brain is divided into three parts-Forebrain, Midbrain, and Hindbrain.
- Femur, also known as the thighbone, is the longest bone in the human body.

Forebrain	It comprises Thalamus, Hypothalamus, and Cerebrum.
Hindbrain	It comprises the cerebellum, medulla oblongata, and pons.
Midbrain	It is located between the Hypothalamus of the forebrain and the pons of the hindbrain.

Q:100 The correct answer is **option 4** i.e. **P.V. Sindhu**.

Padma Awardees	Total-141 It was announced by the Ministry of Home Affairs on the eve of the 71st Republic Day
Name of Padma Awards	Padma Vibhushan, Padma Bhushan and Padma Shri
Fields in which they are given	Art, social work, public affairs, science and engineering, trade and industry, medicine, literature and education, sports, civil service, etc
When will it be given?	This will be conferred by Ram Nath Kovind at ceremonial functions in Rashtrapati Bhawan, New Delhi at around March or April 2020(yet to be decided).