SRI KRISHNAVENI BANKING COACHING CENTRE

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Subject : Reasoning   Data Sufficiency

Directions : (1-23): Each of the question below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the questions. Read both the statements and Give answer.

1. If the data in **statement I alone are sufficient** to answer the question, while the data in **statement II alone** are not sufficient to answer the question.

2. If the data in **statement II alone are sufficient** to answer the question, while the data in **Statement I alone are not sufficient** to answer the question.

3. If the data either in **Statement I alone** or in **statement II alone** are not **sufficient** to answer the question.

4. If the data even in both **statements I and II together are not sufficient** to answer the question.

5. If the data in both **statements I and II together** are **necessary** to answer the question.

1. **By selling a product at 20% profit, how much profit was earned?**
 I. The difference between cost and selling price is Rs. 40.
 II. The selling price is 120 percent of the cost price.

2. **A train crosses another train running in the opposite direction in X secods. What is the speed of the train ?**
 I. Both the trains have the same length and are running at the same speed.
 II. One train crosses a pole in 5 seconds.

3. **What is a two - digit number ?**
 I. The difference between the two digits is 9
 II. The sum of the digits in equal to the difference between the two digits.

4. **A spherical ball of radius x cum in melted and made into a right circular cylinder. What is the height of the cylinder ?**
 I. The volume of the cylinder is equal to the volume of the ball
 II. The area of the base of the cylinder is given.

5. **The area of a square is equal to that of a circle. What is the circumference of the circle?**
 I. The diagonal of the square is x inches
 II. The side of the square is y inches.

6. **A,B and C are positive integers. Is their product an even number?**
 I. A is an even number
 II. The product of A and B is even number and that of A and C is also an even number.

7. **What is the speed of the train whose length is 210 metres?**
 I. The train crosses another train of 300 metres length running in opposite direction in 10 seconds.
 II. The train crosses another train running in the same direction at the speed of km/hr in 30 seconds.

8. **What is the simple rate of interest ?**
 I. The total interest earned was Rs. 4000/-
 II. The sum was invested for 4 years.

9. **What is the volume of a cube ?**
 I. The area of each face of the cube is 64 square metres.
 II. The length of one side of the cube is 8 metres.

10. **What is the number ?**
 I. 40% of the number is equal to its $\frac{2}{5}$
 II. 20% of the number is equal to 30% of 40.

11. **What is the two digit number ?**
 I. The difference between the two digits is nine.
 II. The sum between the two digits is nine.

12. **What is percent profit earned by selling the product ?**
 I. The profit earned was Rs. 50/-
 II. Had it been sold for Rs. 310 the profit would have been Rs. 70/

13. **What is the measure of three angles of a right angled triangle?**
 I. Measure of one angle is 60^0
 II. The sum of two angles of the triangle is 120^0

14. **How many students are there in the school ?**
 I. The number of boys is 90 more than that of girls.
 II. The percentage of boys to the percentage of girls is 145.

15. **What is the two digit number ?**
 I. The sum and difference of digits are 9
 II. The unit's digit is less than the ten's digit.

16. **What is the rate of compound interest ?**
 I. The principal was invested for 4 years
 II. The earned interest was Rs. 1491

17. **What is the measure of the third angle of a triangle ?**
 I. The sum of other two angles is 130^0
 II. The sum of second and third angles of 110^0

18. **What is the distance between the points X and Y ?**
 I. A boat takes 4 hours in covering a distance from X to Y in down stream and from Y to X in upstream.
 II. The speed of boat in still water is 5 kmph.

19. **What is the volume of 32 metre high cylindrical tank ?**
 I. The area of its base is 154 m²
 II . The diameter of base is 14m.

20. **Aparna is twice as old as Savita. What is the difference in their age ?**
 I. Five years hence, the ratio of their age would be 9:5
 II. Ten years back the ratio of their age was 3:1

21. **A train crosses a pole in 10 seconds. What is the length of the train?**
 I. The train crosses another train running in opposite direction with a speed of 80 km/hr in 22 seconds.
 II. The speed of the train is 108 km/h

22. **What is the area of a rectangle ?**
 I. The difference in the sides is 5 cms.
 II. The measure of its diagonal is 10 cms

23. **Is x an odd integer ?**
 I. When multiplied by an even number gives an even number.
 II. When multiplied by an odd number, gives an odd number.

DATA SUFFICIENCY KEY SHEET

1) 1   2) 4   3) 1   4) 2   5) 3   6) 3   7) 5   8) 4   9) 3   10) 2   11) 1   12) 2   13) 3   14) 5   15) 1
16) 4   17) 1   18) 4   19) 3   20) 3   21) 2   22) 5   23)