**DATA SUFFICIENCY**

**Directions for questions 1 to 10:** Each question is followed by two statements, (1) and (2). Answer each question based on the instructions given below:

**a:** If the question can be answered by using statement (1) alone but statement (2) alone is not sufficient to answer the question.

**b:** If the question can be answered by using statement (2) alone but statement (1) alone is not sufficient to answer the question.

**c:** If the question can be answered by using either statement (1) alone or statement (2) alone.

**d:** If the question can be answered by using both the statements together, but cannot be answered using either of the statements alone.

**e:** If the question cannot be answered even by using both the statements together.

1. Is x divisible by 70?

(1) x is divisible by 2 and 5.

(2) x is divisible by 2 and 7.

2. Is x an integer?

(1) x > 0.

(2) (5² + 12²) = x².

3. Is the year ‘y’ a leap year?

(1) y is divisible by 4.

(2) y is a century year.

4. In a triangle PQR, what is the length of the side PR?

(1) Side PQ is 12 cm and side QR is 5 cm.

(2) Triangle PQR is isosceles.

5. What is the area of the square?

(1) Perimeter of the square is 160 units.

(2) Diagonal of the square is 20 units.

6. Company xyz made a profit of Rs.10 lakhs in 2015. What was its profit in 2016?

(1) Income increased by 20% in the year 2016.

(2) Expenditure increased by 25% in the year 2016.

7. a, b, c, d, e and f are consecutive integers. Is ‘e’ odd?

(1) ‘b.f’ is even.

(2) ‘a.f’ is even.

8. Is A the father of B?

(1) A is the brother in law of C.

(2) A is the daughter of D

9. How many years ago were the of ages of A & B in the ratio of 3:4?

(1) A is younger than B.

(2) Present ages of A and B are in the ratio of 4:5.

10. Is A the sister of D?

(1) B is the wife of D.

(2)B is the sister in law of A.

**Directions for questions 11 to 15**- Each question is followed by two statements, (I) and (II). Mark your answer as:

**(a)** If the question can be answered by using one of the statements alone, but cannot be answered using the other statement alone.

(**b**) If the question can be answered by using either statement alone.

(**c**) If the question can be answered by using both statements together, but cannot be answered using either statement alone.

(**d**) If the question cannot be answered even by using both statements together.

11. A pair of shoes & socks cost Rs. 550. What is the cost of the shoes alone?

(I) The pair of shoes costs Rs. 330.

(II)The pair of shoes costs two and a half times as much as the socks

12. If the present age of my father is 39 yrs and my present age is x yrs, what is x?

(I) Next year my mother will be four times as old as i would be.

(II) My brother is 2 years older than me and my father is 4 years older than my mother.

13. How many brothers and sisters are there in the family of seven children?

(I) Each boy in the family has as many sisters as brothers

(II) Each of the girl in the family has twice as many brothers as sisters

14. Three packages have a combined weight of 50 kg. What is the weight of the heaviest package?

(I) One package weights 15 kg

(II) One package weights 25 kg

15. Sanjay and Vijay started their journey from Mumbai to Pune. Who reached Pune first?

(I) Sanjay overtakes two times Vijay and Vijay overtakes Sanjay two times

(II) Sanjay started first

16. A, B, C, D, E and F are sitting around a circular table. Is A sitting opposite to D?

(I) A is 3 places to the right of C.

(II) D is not adjacent to A.

17. Is X = B

(I) X is not less than B

(II) B is not less than X.

18. What is the distance between city A and city C in kms?

(I) City A is 90 km away from city B.

(II) City B is 30 km away from city C.

19. Is the number of DVDs with Anu more than that with Madhu?

(I) Anjana has more DVDs than Madhu.

(II) Anu has fewer DVDs than Anjana.

20. Is Peter an MBA?

(I) Peter is a manager

(II) All MBAs are managers