2007 MBA – DATA SUFFICIENCY PREVIOUS QUESTION PAPER

TIME : 3 HOUR

1.
What will be the age of Mohan 10 years from now?
(1) His brother was 20 years old 7 years ago.
(2) His brother is 8 years elder to him.
1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

2.
Is $(X – 17)$ an even number? (Given X is a real number)
(1) $(X – 22)$ is an integer (2) $(X – 5)$ is an even number)
1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

3.
What is the distance between Delhi and Mumbai?
(1) Delhi is 500 kms from Jaipur.
(2) Jaipur is 1000kms from Mumbai.
1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

4.
Given $m > 0$ what is the value of $1/4 \ (m/X)$?

(1) $m = 25$
(2) $X = 96 \ m$
1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

5.
What is the value of X?
(1) X is a two digit number.
(2) X = three times sum of its digits.
1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

6.
Is m2 an integer?
(1) 9 m2 is a positive integer.
(2) m is a positive even number.
1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

7.
Are triangles ABC and PQR congruent?

(1) They have equal bases and equal heights.
(2) Both are isosceles triangles.
1. If you can get the answer from any one of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

8.

What is the sum of four real numbers?

(1) Their average is 160.

(2) Their product is 1020.

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data

9.

What is the slope of line L?

(1) It is parallel to the X axis

(2) Its Y axis-intercept is 6 units

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

10.

Is (p + q) = 0? [Given p

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

11.

Is $X > 5$? [Given $X > 0$]

(1) $14X - X^2 - 49 = 0$

(2) $8X - X^2 - 16 = 0$

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

12.

Is (p + q) even? [Given p, q are real]

(1) p, q are negative

(2) p, q are positive

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

13.

Is $X > 1$? [Given X = real]

(1) $X^2 - 1 = 0$

(2) $X^3 + 1 = 0$

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

14.

Is $X < 1$? [Given X = real]

(1) $X^3 - 1 = 0$

(2) $X^2 + 1 = 0$

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

15.

Is X the square of an integer?

(1) ?X = 9/2

(2) X = 64

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

16.

Is $p + q > m$?

(1) $pq > q + m$

(2) p, q, m are consecutive positive integers > 1

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

17.

How many 50 paise coins does Ram have?

(1) He has a total of Rs. 50.

(2) 10 coins are of Re.1.

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

18.

What are the dimensions of a rectangle?

(1) Its diagonal = 10.

(2) Its perimeter = 28

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

19.

Is $a < b$? [a, b are real].

(1) $b^3 = 125$

(2) $a^2 = 361$

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

20.

Is $a < b$? [a, b are real]

(1) $b^3 = 27$

(2) $a^2 = 8$

1. If you can get the answer from any one of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

21

Is $a < b$? [a, b are real]

(1) $b^2 = 25$

(2) $a^3 = -27$

1. If you can get the answer from any of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

22.

Is $a < b$? [a, b are real]

(1) $a^2 = 144$

(2) $b^2 = 64$

1. If you can get the answer from any of the statements.

2. If you can get the answer from either of the statements.

3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.

4. If you cannot get the answer from statements (1) and (2) together, but need even more data.

23.

Is $a < b$? [a, b are real]

(1) $b^3 = 64$

(2) $a^3 = -216$

1. If you can get the answer from any of the statements.

2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.
24.
What is the total cost of painting a wall?
(1) Dimension are 10 m x 3 m
(2) Cost of painting = Rs .50 / m2
1. If you can get the answer from any of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.
25.
Sum of ages of Ram, Shyam and Mohan is 70. What are their individual ages?
(1) Sum of ages of Ram and Mohan = 50 years.
(2) Sum of ages of Shyam and Mohan = 60 years.
1. If you can get the answer from any of the statements.
2. If you can get the answer from either of the statements.
3. If you can get the answer from (1) and (2) together, although neither statement by itself suffices.
4. If you cannot get the answer from statements (1) and (2) together, but need even more data.