2007 MBA – DATA SUFFICIENCY MODEL QUESTION PAPER

TIME : 3 HOUR

1.
Is X positive?

(A) X2 – 1 = 0

(B) X3 + 1 = 0

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

L, M and H are straight lines with L || M. Is ?B equal to 90??

(A) ?A = 55

(B) ? D > 90?

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

A rectangle is 40 inches long. What is its area?

(A) Its perimeter is 140 inches.

(B) The length of the diagonal is 50 inches.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

What are the values of A and B?

(A) 2A – 3B = 17

(B) 6B ? 4A = – 34

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Is A > B?

(A) A is positive

(B) (A + B)2 is positive

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Is triangle PQR a right triangle?

(A) ?P < ?Q

(B) ?P+ ?Q = ?R

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(A) K is greater than 2L.

(B) The difference K – L is positive.

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3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

A piece of wood 7 feet long is cut into three pieces. What is the length of each of the pieces?

(A) The length of the longest piece is equal to the sum of the lengths of the other two pieces

(B) The length of the shortest piece is 6 inches

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2. If the question can be solved using either of the statements.
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Is A greater than B?

(A) A + B > 2A.

(B) A2 > B

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2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Is X a whole number?

(A) 2X is even.

(B) 3X is odd

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2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 11 of 25
Can | P | be equal to 0, where P = |x + y – 4|?

(A) x = y

(B) x = ? y

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2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 12 of 25
What are x and y?

(A) 3x + 4y = 25

(B) 7.5x + 10 y = 55

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 13 of 25
Is an even number divisible by 198?

(A) The number is simultaneously divisible by 9 and 11.

(B) The number is not divisible by 3

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 14 of 25
Is a number divisible by 88?

(A) The number formed by the last three digits (unit's, ten's, hundred's) of the number is divisible by 8.

(B) The number added to its inverse is divisible by 11.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 15 of 25
What is the speed of a Jeep?

(A) The Jeep is faster than a Car by 10 kmph.

(B) The Car took two hours longer than the Jeep to cover 100 kms.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

What is the speed of a car?

(A) When it travels 10 km/hr slower it takes 5 hours longer to cover 100 kms.

(B) When it travels 5 km/hr faster, it takes one hour less to cover 100 kms.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

What is $a3$? $b3$? (a & b are positive and a > b)?

(A) $a2 + b2 = 25$

(B) $ab = 12$

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
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What is $a3 + b3$? (a and b are positive and a > b)?

(A) $a2 + b2 = 25$

(B) $ab = 12$

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

What is a positive 2 digit number?

(A) The number is 6 times the sum of digits of the number.

(B) The number exceeds by 9 the number obtained by interchanging its digits.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

What is a three digit number (divisible by five) formed by the digits 1, 2... 9.

(A) The digits form an AP.

(B) The digits form a pythagorean triplet.

1. If the question can be solved using any one of the statements.

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3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 21 of 25
A man sells two TV sets, what is his overall gain or loss %?

(A) He sells one at a gain of 10% & other at a loss of 10%.

(B) The selling prices for both of them is the same.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 22 of 25
What is the overall gain or loss on two TV sets?

(A) Their CPs are the same.

(B) Their SPs are the same.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 23 of 25
What are the values of A and B?

(A) A : B = 3 : 2

(B) B – A = – 2

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Question 24 of 25
For a set of chair and table, what is the price of chair?

(A) The combined price of chair and table is Rs. 400.

(B) The table costs Rs. 100 more than the chair.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.
3. If the question can be solved using both but not either alone.
4. If the question cannot be solved using the given statements.

Mark for revision | Unmark
Question 25 of 25
What is the value of X?

(A) $6 + X – X^2 > 0$.

(B) $X (X^2 ? 2X ? 3) = 0$.

1. If the question can be solved using any one of the statements.
2. If the question can be solved using either of the statements.

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