

ECO153

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1. Given an arithmetic progression  $3 + 10 + 17 + \dots$ , find the sum of 28 term of the AP.

$$S_{28} = 3200$$

$$T_{28} = 2730$$

--->>  $S_{28} = 2730$

$$T_{28} = 3200$$

2. Then the nth term of an Arithmetic progression is mathematically defined as:

--->>  $T_n = a + (n - 1)d$

$$S_n = \frac{n}{2}\{a + 1\}$$

$$T_n = a + (n - 1)$$

$$S_n = \frac{1}{2}\{a + 1\}$$

3. State the degree of the polynomials,  $X^3 + 2X^2 - 3X + 1$

--->> 3

2

1

None of the options

4. Which of the following is a property of set?

The collection of object must be well defined

The order in which objects are arranged in a set is immaterial

The object in a set must be distinct

--->> All of the options

5. What is the difference between equation and function?

An equation tells us in a clear term the nature of relationship between one

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An equation and a function is that for an equation each of the values of independent variable should give a corresponding value of dependent variable, this is not compulsory for a function

All equations are functions but not all functions are equations

--->> All of the options

6. Which of the following is one of classification of sets?

--->> Infinite set

Union

Prime

Element

7. It took 10 men 40 hours to clean up the warehouse of a certain company. How much time will be taken by 10 men doing the same work at the same rate?

8 hours

3 hours

--->> 10 hours

5 hours

8. Which of the following is a property of determinants?

The determinant of a matrix equals to the determinant of its transpose

If all the elements of any row or column are zero, the determinant is zero.

If two rows or columns are identical or proportional or linearly dependent, the determinant is zero.

--->> All of the options

9. Which of the following is a basic identity in matrix operation?

Commutative law in matrix

Distributive law in matrix

Associative law in matrix

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10. Simplify the factorial,  $12! / 3!5!$

--->> 665280

655280

644280

622280

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