First Terminal Examination 2014 - 2015

Class – XI Subject – Mathematics

Time: 3 Hours

Max. Marks: 100

General Instructions :

- 1. All questions are compulsory.
- 2. The question paper consists of 26 questions.
- 3. This question paper is divided into three sections A, B and C.
- 4. Section A comprises of 6 questions of one mark each
- 5. Section B comprises of 13 questions of four marks each
- 6. Section C comprises of 7 questions of 6 marks each
- There is no overall choice. However, internal choice has been provided in 4 questions
 of 4 marks each and 2 questions of 6 marks each. You have to attempt only one
 of the alternatives in all such questions.

SECTION - 'A'

 $(1 \times 6 = 6)$

- 1. Let A = {1, 2} and B = {3, 4}. Find the number of relations from A to B.
- Write down the power set of A, where A = {φ, {φ}}.
- 3. Find x and y if (2x + y, x y) = (8, 3).
- Simplify:

$$\frac{\cos x}{\sin\left(\frac{\pi}{2} + x\right)} + \frac{\sin(-x)}{\sin(\pi + x)} - \frac{\tan\left(\frac{\pi}{2} + x\right)}{\cot x}$$

Solve :

$$\frac{5-2x}{3} \le \frac{x}{6} - 5 \text{ for } x \in \mathbb{R}.$$

Express :

$$\left\{i^{17} - \left(\frac{1}{i}\right)^{34}\right\}^2$$
 in the form of a + ib

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N Colangelo

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