Sub.Code : 116 'B'

NEB-GRADE XI
2076 (2019)

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs. **Full Marks: 100**

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A' $5 \times 3 \times 2 = 30$

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.

   b. If $f : \Re \to \Re$ be defined by $f(x) = 2x - 3$, find f^{-1}

   c. Test the even or odd nature and symmetricity of the function $y = 8x^2$

2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.

   b. Prove by mathematical induction: $1 + 3 + 5 + \ldots + (2n-1) = n^2$

   c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$

3. a. Using Cramer's rule, solve : $3x + 2y + 9 = 0,\ \ 2x - 3y + 6 = 0$

   b. Express $\sqrt{3} + i$ in polar form.

   c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$

4. a. Find the equation of the straight line that has y- intercept '2' and is parallel to $4x - 8y + 3 = 0$

   b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.

   c. Evaluate : $\lim_{x \to 0} \frac{1 - \cos mx}{1 - \cos nx}$

Contd...

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