Model Question for HSC Examination 2015

Class XI

(English Version)

Subject: Higher Mathematics 1st Paper (Theoretical)

Full Marks - 75 Time: 3 Hours

Group - A : Algebra

(Answer any three questions)

 $3 \times 5 = 15$

1. It A =
$$\begin{bmatrix} 1 & 2 & 3 \\ 2 & 0 & 3 \\ 1 & -1 & 1 \end{bmatrix}$$
 then find A³ - 2A² + A-2I

2. It
$$A = \begin{bmatrix} 2 & 1 \\ -5 & -4 \end{bmatrix}$$
 and $B = \begin{bmatrix} 3 & -1 \\ -1 & 1 \end{bmatrix}$ and $B =$ then find $(AB)^{-1}$

3. Prove that
$$\begin{vmatrix} 1+a^2-b^2 & 2ab & -2b \\ 2ab & 1-a^2+b^2 & 2a \\ 2b & -2a & 1-a^2-b^2 \end{vmatrix} = (1+a^2+b^2)^3$$
4. Prove that
$$\begin{vmatrix} x^2 & yz & zx+z^2 \\ x^2+xy & y^2 & zx \\ xy & y^2+yz & z^2 \end{vmatrix} = 4x^2y^2z^2$$

4. Prove that
$$\begin{vmatrix} x^2 & yz & zx+z^2 \\ x^2+xy & y^2 & zx \\ xy & y^2+yz & z^2 \end{vmatrix} = 4x^2y^2z^2$$

Solve by determinant method. 5.

$$x + y - z = 3$$

 $2x + 2y + z = 10$
 $3x - y - 7z = 1$

Group - B : Trigonometry

(Answer any four question)

 $4 \times 5 = 20$

- Draw the graph of $y = \sin 3x$ where $0 < x < \pi$ 6.
- Draw the graph of $y = \cos^2 x$ where $-\pi \le x \le \pi$.
- If $A + B < 90^{\circ}$ then prove that by geometric method 8 cos(A+B) = cosA cosB - sinA sinB.
- If $\tan \beta = \frac{n \sin \alpha \cos \alpha}{1 n \sin^2 \alpha}$ then prove that $\tan (\alpha \beta) = (1 n) \tan \alpha$
- 10. If $A \neq B$ and $\sin A + \cos A = \sin B + \cos B$ then show that $A + B = \pi/2$
- 11. Show that $16 \cos \frac{2\pi}{15} \cos \frac{4\pi}{15} \cos \frac{8\pi}{15} \cos \frac{14\pi}{15} = 1$

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