

## Model Question for HSC Examination 2015

## Class XI

(English Version)

Subject : Higher Mathematics 1st Paper (Theoretical)

Time : 3 Hours

Full Marks – 75

Group – A : Algebra

(Answer any three questions)

3×5=15

1. It  $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 0 & 3 \\ 1 & -1 & 1 \end{bmatrix}$  then find  $A^3 - 2A^2 + A - 2I$
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  $\begin{vmatrix} x^2 & yz & zx+x^2 \\ x^2+xy & y^2 & zx \\ xy & y^2+yz & z^2 \end{vmatrix} = 4x^2y^2z^2$
5. Solve by determinant method.  
 $x + y - z = 3$   
 $2x + 2y + z = 10$   
 $3x - y - 7z = 1$

Group – B : Trigonometry

(Answer any four questions)

4×5=20

6. Draw the graph of  $y = \sin 3x$  where  $0 < x < \pi$
7. Draw the graph of  $y = \cos^2 x$  where  $-\pi \leq x \leq \pi$ .
8. If  $A + B < 90^\circ$  then prove that by geometric method  
 $\cos(A+B) = \cos A \cos B - \sin A \sin B$ .
9. 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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# Hsc Higher Math Short Suggestion 2015

**Rachel Sandford**



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