

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

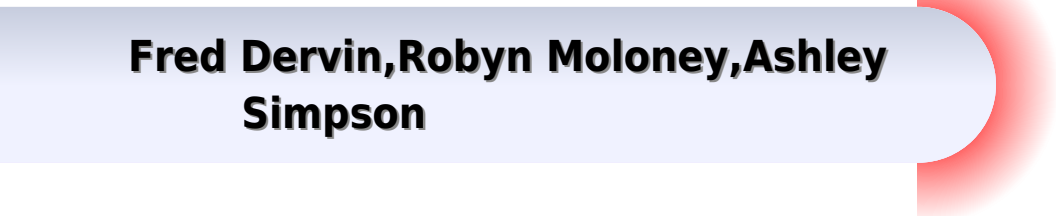
6. Draw the graph of $y = \sin 3x$ where $0 < x < \pi$
7. Draw the graph of $y = \cos^2 x$ where $-\pi \leq x \leq \pi$.
8. If $A + B < 90^\circ$ then prove that by geometric method
 $\cos(A+B) = \cos A \cos B - \sin A \sin B$.
9. If $\tan \beta = \frac{n \sin \alpha \cos \alpha}{1 - n \sin^2 \alpha}$ 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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**Fred Dervin, Robyn Moloney, Ashley
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Intercultural Competence in the Work of Teachers Fred Dervin, Robyn Moloney, Ashley Simpson, 2020-03-31 This book critiques models of intercultural competence whilst suggesting examples of specific alternative approaches that will successfully foster intercultural competence in teacher education Bringing together diverse perspectives from teacher educators and student teachers this volume discusses the need to move beyond essentialism culturalism and assumptions about an us versus them perspective and recognises that multiple identities of an individual are negotiated in interaction with others Intercultural Competence in the Work of Teachers is divided into four sections critiquing intercultural competence in teacher education exploring critical intercultural competences in teacher education reflexivity and intercultural competence in teacher education and indigeneity and intercultural competence in teacher education providing a methodological approach through which to explore this critical framework further This book is ideal for teacher educators or academics of education specialising in global education who are looking to explore alternative perspectives towards intercultural competence and wish to gain an insight into the ways it can be utilised in a more effective and productive manner

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