

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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Scott C. Dulebohn



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Designing Better Architecture Education Manjari Chakraborty, 2015-11-11 Designing Better Architecture Education is an outcome of a research conducted systematically with diligence passion wide and in depth exercise on the obvious and latent aspects of undergraduate architecture education Although specific to India this study probes the diverse global scenario in acknowledgement of the global style of architecture where green preferences surface as compulsion The findings are arranged systematically analyzed impartially and inferred upon logically The final bunch of suggestions aimed at a much desirable architecture education revamp in India is in fact relevant for architecture education as a whole anywhere The author suggests compaction of graduation time intensification of exposures interactions and instructions shift of focus introduction of contemporary specializations restructuring intake revamping academic administration and a significant change of stance in teaching itself including methods philosophy attitude and paraphernalia The book provides valuable information insight and suggestions to rejuvenate the academic approach to the education of architecture and forms a reliable basis for further endeavour in this direction

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