Model Question of HSC Examination 2015

Subject : Higher Mathematics Fist Paper

Time: 3 Hours

Full Marks — 75

[The figure in the right margin indicate the full works.]

				art.	- A(Algebra)	
Answer	any	EWN	o of	the	following questions:	5 × 2 = 10
	-	T1	3	27		

a. If
$$A = \begin{bmatrix} 1 & 3 & 2 \\ 2 & 0 & 3 \\ 1 & -1 & 1 \end{bmatrix}$$
. (i) find A^3

(ii) find
$$A^3 - 2A^2 + A - 2I$$
, where $I = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$

b. Show that,
$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & p & p^2 \\ 1 & p^2 & p^4 \end{vmatrix} = p(p-1)^2 (p^2-1)$$

c. Show that,
$$\begin{vmatrix} a+b+2c & a & b \\ c & b+c+2a & b \\ c & a & c+a+2b \end{vmatrix}$$

= 2(a+b+c)³

Answer any one of the following questions:
$$5 \times 1 = 5$$

- How many different arrangements can be made of all the letters of the word 'MILLENNIUM'? In how many of them M stands first and last?
- How many permutations and combinations can be made from the letters of the word 'PROFESSOR' taken 4 at a time?

Part - B (Geometry)

Answer any one of the following questions:

- If $\vec{A} = \hat{i} + 2\hat{j} 3\hat{k}$ and $\vec{B} = 3\hat{i} \hat{j} + 2\hat{k}$, show that the vectors $\vec{A} + \vec{B}$ and $\vec{A} - \vec{B}$ are perpendicular to each other.
- Prove by using vector that the diagonals of a rhombus bisect each other at right angles.

Answer any three of the following questions:

- The distance of any point of a set from the point (2, 0) is three times its distance from the line x = 0. Find the equation of the locus.
- A(1, 1), B(3, 4) and C(5, -2) are the vertices of a triangle ABC. Find the equation of the straight line joining the middle points of AB and AC.
- Show that the area of the triangle formed by the straight lines x = a, y = b, y = mx is $\frac{1}{2lm!}(b - ma)^2$ sq.units.
- The centre of a circle lies on the straight line 2x - y = 3 and it passes through the points (3, -2)

- Answer any two of the following questions: If $\sin 2\alpha = k \sin 2\theta$, show that $\tan \alpha$

$$(\alpha - \theta) = \frac{k-1}{k+1} \tan(\alpha + \theta)$$

- Solve with the help of a graph: $\sin 2x - \sin x = 0$, $0 \le x \le 2\pi$
- Draw the graph of the function $y = \cos 2x$,
- when $0 \le x \le 2\pi$ Answer any two of the following questions:
 - a. show that, $2\cos\frac{\pi}{16} = \sqrt{2 + \sqrt{2 + \sqrt{2}}}$
 - b. If A + B + C = π, prove that sin 2A - sin 2B + sin 2C = 4 cosA sinB cosC
 - $a^4 + b^4 + c^4 = 2c^2(a^2 + b^2)$, show that $C = 45^\circ$ or 135°. Part - D (Calculus)
- Answer any one of the following questions: $5 \times 1 = 5$
 - If $f(x) = \frac{1-x}{1+x}$ then prove that $f(\cos\theta) = \tan^2\frac{\theta}{2}$.
 - Let R be the set of real number A, B \subseteq R, $f: A \rightarrow B$ defined by $f(x) = \frac{x-3}{2x+1}$
 - (i) Find the domain and range of the function (ii) Find f '(x).
- Answer any three of the following questions: $5 \times 3 = 15$
 - $\lim 1 \sin x$ $x \rightarrow 0 \cos x$
 - If y = px2 + qx2, prove that, $2x^2 \frac{d^2y}{dx^2} x \frac{dy}{dx} = 2y$
 - Find the integral of the following (any two)

(i)
$$\int \frac{dx}{\sqrt{5-4x^2}}$$

(ii) | tanx dx

(iii)
$$\int_0^{\frac{\pi}{4}} \frac{1}{1 + \sin x} dx$$

Find the area bounded by the circle $x^2 + y^2 = 16$

- (a) (i) 18 8 26 ; (ii) 10 0 15 5 -5 5
- (a) 226800, 5040
- (b) 738, 48 (a) $y^2 - 8x^2 - 4x + 4 = 0$

 - (b) 6x + 2y 17 = 0(d) $x^2 + y^2 + 3x + 12y + 2 = 0$

- 5. (b) 0, 3, n, 5m, 2m
- 7. (b) (i) Domain = $\mathbb{R} \left\{ -\frac{1}{2} \right\}$, Range = $\mathbb{R} \left\{ \frac{1}{2} \right\}$
 - (iii) $\frac{x+3}{1-3}$
- - (c) (i) $\frac{1}{2} \sin^{-1} \frac{2x}{\sqrt{5}}$; (ii) $\ln |\sec x| + c$; (iii) $2 \sqrt{2}$
 - (d) 16π sq. units

Highermath Short Suggestion Hsc Exam 2015

Michael Seilmaier

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