MATHS - IA
PRACTICE PAPER – 3

TOTAL MARKS: 75
TIME: 3hrs.

I. Very short answer type questions $\qquad$ $10 \times 2 = 20$

1. Find the domain of the real valued function $f(x) = \log(x^2 - 4x + 3)$.

2. If $f = \{(1, 2), (2, -3), (3, -1)\}$ then find   (i) $2f$ (ii) f^2.

3. If $A = \begin{bmatrix} 2 & 4 \\ -1 & k \end{bmatrix}$ and $A^2 = 0$, then find the value of k.

4. Find the rank of the matrix $\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$.

5. Let $\bar{a} = 2\bar{i} + 4\bar{j} - 5\bar{k}$, $\bar{b} = \bar{i} + \bar{j} + \bar{k}$ and $\bar{c} = \bar{j} + 2\bar{k}$. Find the unit vector in the opposite direction of $\bar{a} + \bar{b} + \bar{c}$.

6. Find the vector equation of the plane passing through the points $(0, 0, 0)$, $(0, 5, 0)$ and $(2, 0, 1)$.

7. If $\bar{a} = 2\bar{i} - 3\bar{j} + \bar{k}$ and $\bar{b} = \bar{i} + 4\bar{j} - 2\bar{k}$, then find $(\bar{a} + \bar{b}) \times (\bar{a} - \bar{b})$.

8. If $3\sin\theta + 4\cos\theta = 5$, then find the value of $4\sin\theta - 3\cos\theta$.

9. Find the value of $\sin^2 82\frac{1}{2}^\circ - \sin^2 22\frac{1}{2}^\circ$.

10. Show that $\tanh^{-1}\left(\frac{1}{2}\right) = \frac{1}{2}\log_e 3$

II. Short answer type questions $\qquad$ $5 \times 4 = 20$

11. Show that $\begin{bmatrix} 1 & a & a^2 \\ 1 & b & b^2 \\ 1 & c & c^2 \end{bmatrix} = (a - b)(b - c)(c - a)$.

12. Let A B C D E F be a regular hexagon with centre 'O', then show that
    $\overline{AB} + \overline{AC} + \overline{AD} + \overline{AE} + \overline{AF} = 3\overline{AD} = 6\overline{AO}$.

13. If $\bar{a} = 2\bar{i} + \bar{j} - \bar{k}$, $\bar{b} = -\bar{i} + 2\bar{j} - 4\bar{k}$, $\bar{c} = \bar{i} + \bar{j} + \bar{k}$, then find $(\bar{a} \times \bar{b}) \cdot (\bar{b} \times \bar{c})$.

14. If $0 < A < B < \frac{\pi}{4}$, $\sin(A + B) = \frac{24}{25}$, $\cos(A - B) = \frac{4}{5}$, then find the value of $\tan 2A$.

15. If θ_1, θ_2 are solutions of the equation $a \cos 2\theta + b \sin 2\theta = c$, $\tan\theta_1 \neq \tan\theta_2$ and $a + c \neq 0$, then find the value of   (i) $\tan\theta_1 + \tan\theta_2$ (ii) $\tan\theta_1 \cdot \tan\theta_2$

Maths 1a 2march Final Question Paper

Joacim Rocklöv

Maths 1a 2march Final Question Paper:

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AIAA Flight Simulation Technologies Conference ,1994   **SIAM Journal on Applied Mathematics** ,1967

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