F.Y.B.Sc. (IT)
Sem-II

Applied Mathematics-I

January 14

2nd half-13-Av(b)

Con. 288-13.

(3 Hours)

TD-1082

[Total Marks : 100

N.B. : (1) All questions are **compulsory**.
(2) **Figures** to the **right** indicate **full** marks.

Q.1] Attempt any one:　　10
a) Find inverse of given matrices, using adjoint method.

$$\begin{bmatrix} 2 & 1 & 3 \\ 3 & 1 & 2 \\ 1 & 2 & 3 \end{bmatrix}$$

b) Solve: $(1-x^2)\dfrac{dy}{dx} + 2xy = x\sqrt{1-x^2}$

Q.2] Attempt any three:　　5
a) Show that given matrix is Hermitian and iA is Skew Hermitian matrix.

$$\begin{bmatrix} 2 & 3+2i & -4 \\ 3-2i & 5 & 6i \\ -4 & -6i & 3 \end{bmatrix}$$

b) Show that given matrix is unitary and hence find A^{-1}.　5

$$\frac{1}{2}\begin{bmatrix} \sqrt{2} & -i\sqrt{2} & 0 \\ i\sqrt{2} & -\sqrt{2} & 0 \\ 0 & 0 & 2 \end{bmatrix}$$

c) Given that $A = \begin{bmatrix} 1 & -1 \\ 2 & 3 \end{bmatrix}$ show that $A^2-4A+5I=0$.5　　5

d) Reduce the given matrices in normal form and hence find rank.

$$\begin{bmatrix} 0 & 1 & -3 & -1 \\ 1 & 0 & 1 & 1 \\ 3 & 1 & 0 & 2 \\ 1 & 1 & -2 & 0 \end{bmatrix}$$

Q.3] Attempt any three:
a) Check whether given vectors are linearly dependent or independent set.　　5
$X_1 = (1, 2, 3)^T, X_2 = (3, -2, 1)^T, X_3 = (1, -6, 5)T$
b) Find inner product of the given vectors.　　5
$a = (1+i, 2-3i, 5+2i)^T, b=(2-i, 3+j, i)^T$
c) Verify Cayley-Hemilton theorem.　　5

$$\begin{bmatrix} 7 & 2 & -2 \\ -6 & -1 & 2 \\ 6 & 2 & -1 \end{bmatrix}$$

d) Diagonalize the given matrix. Find the model matrix P.　　5

$$\begin{bmatrix} 5 & 4 \\ 1 & 2 \end{bmatrix}$$

Q.4] Attempt any three:
a) Find the volume of the parallelopiped whose edges are represented by the　　5
vector A=2i-3j+4k, B=i+2j-k, C=3i-j+2k.

b) If $R = a\cos ti + a\sin ti + at\tan\alpha k$ Find value of $\left| \dfrac{dR}{dt} \quad \dfrac{d^2R}{dt^4} \right|$　　5

c) What is the directional derivative of $\phi = xy^2+yz^3$ at the point (2, -1, 1)　　5
in the direction of the normal to the surface $x\log z-y^2 = -4$ at(-1, 2, 1)
d) Find the angle between the tangent planes to the surface $x \log z = y^2-1$,　　5
$x^2y = 2-z$ at the point(1, 1, 1).

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Amedée Auguste Gonin,Izak Jacobus Martinus Archer

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