Question Paper (April - 2014) [Revised Course]

B.Sc.IT: Semester – I [Applied Mathematics – I] Question Paper (Apr – 2014) [Revised Course]

- Karnal T.

Tierrer 3 Houses

N.B.: (1) All Questions from 1 to 7 are Compulsory.

Total Marks: 100

Q.1 Solve: (10 Marks)

- (A) Given that $A = \begin{bmatrix} 1 & -1 \\ 2 & 3 \end{bmatrix}$. Find $A^2 4A + 5i$
- (8) Solve: $(2x^3 + 3y)dx + (3x + y)dy = 0$

(5)

Q.2 Solve: (15 Marks)

- (A) Define Unitary Matrix. Show that A is Unitary where $A = \begin{bmatrix} \frac{1(1+0)}{2} & \frac{(1(1-0))}{2} \\ \frac{1(1+0)}{2} & \frac{1(1-0)}{2} \end{bmatrix}$
- (B) Determine the rank of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ -3 & -6 & -9 \end{bmatrix}$ (5)
- (C) Find the inverse of the matrix using adjoint method $B = \begin{bmatrix} 2 & 1 & 3 \\ 3 & 1 & 2 \\ 1 & 2 & 3 \end{bmatrix}$ (10)
- (D) Show that the matrix is Skew-Hermitian $B = \begin{bmatrix} 3i & 2+i \\ -2+i & -i \end{bmatrix}$ (5)

Q.3 Solve: (15 Marks)

- (A) Is the vector Linearly dependent? If, so, find the relation between them (10) (3, 2, 7) (2, 4, 1) (1, -2, 6)
- (B) Find Eigen Value and Eigen Vector of the matrix $A = \begin{bmatrix} 1 & -2 \\ -5 & 4 \end{bmatrix}$ (5)
- (C) Verify Cayley Hamilton theorem for $\begin{bmatrix} 1 & 2 & 2 \\ A = 2 & 1 & 2 \\ 2 & 2 & 1 \end{bmatrix}$ (10)
- Find Eigen Value and Eigen vector of the matrix $A = \begin{bmatrix} 1 & -6 & -4 \\ 0 & 4 & 2 \\ 0 & -6 & -3 \end{bmatrix}$ (5)

Q.4 Attempt Any Three From The Following: (15 Marks)

- (A) If F = (x + y + 1)I + J (x + y)K, that show that F.curi F = 0 (5)
- (B) If A is a constant vector and R = xi = yJ + 2K. Prove that, than
 (i) grand(A, R) = A
 (ii) div(A × R) = 0
- (C) Show that the vector is solenoidal (x + 3y) + (y 3z) + (x 2z)K (5)
- (D) Prove that curl [(A,R)R] = A R where A is constant vector.
 (5)

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