Time: 3 Hours.   Full Marks: 210

N.B. i)   Answer any THREE questions from each section in separate scripts.
     ii)   Figures in the right margin indicate full marks.
     iii) Assume reasonable data if any missing.

SECTION – A

1(a)   What is trivial solution of a linear equation? Find a polynomial that fits the points $(1,4)$, $(2,0)$, and $(3,12)$.   10

1(b)   Let $A = \begin{bmatrix} 4 & -1 & 1 & 6 \\ 0 & 0 & -3 & 3 \\ 4 & 1 & 0 & 14 \\ 4 & 1 & 3 & 2 \end{bmatrix}$ 12

     Find: (i) M_{21} and C_{21} of A (ii) M_{44} and C_{44} of A
     Where, M if for minor and C is for co-factor.

1(c)   Determine for which values of λ the following set of vectors are linearly dependent.   13

$$v_1 = \left(\lambda, -\tfrac{1}{2}, -\tfrac{1}{2}\right); \qquad v_2 = \left(-\tfrac{1}{2}, \lambda, -\tfrac{1}{2}\right); \qquad v_3 = \left(-\tfrac{1}{2}, -\tfrac{1}{2}, \lambda\right)$$

2(a)   Define rank of a matrix. Find the rank of a matrix B 10
     where, $B = \begin{bmatrix} 1 & -1 & 2 & 1 \\ 3 & 0 & 2 & 2 \\ 2 & 1 & -1 & 1 \\ 1 & 0 & 1 & 1 \end{bmatrix}$

2(b)   Define subspace of a vector space. Find the basis and dimension of the subspace S defined below –   12
$$S = \{(x, y, z, t): x + y = z, t = 2y\}$$

2(c)   Find all the eigenvalues and an eigenvector corresponding to largest eigenvalue of the following matrix –   13

$$A = \begin{bmatrix} 1 & 2 & -1 \\ 0 & -2 & 0 \\ 0 & -5 & 2 \end{bmatrix}$$

3(a)   What is Nullity? Find the basis of $N(A)$, where –   10
$$A = \begin{bmatrix} 1 & 1 & -1 \\ 1 & 2 & 3 \\ 4 & 5 & -3 \end{bmatrix}.$$

3(b)   State Cauchy-Schwartz inequality. Verify it for $u = (1, -1, 3)$ and $v = (2, 0, -1)$.   10

3(c)   Orthonormalize the family of vectors $\{v_1 = (1,1,1), v_2 = (0, -1, 1), v_3 = (0,1,1)\}$ by using Gram-Schmidt orthonormalize process. Also verify the result for orthogonality and orthonormality.   15

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