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MA 8251 Engineering Graphics- II

Important 2mark questions

Unit I

1. If the eigenvalues of the matrix A of order 3x3 are 2, 3 and 1, then find the determinant of A.
2. State Gauss- Divergence theorem.
3. Find grad ϕ at the point (1, -2, -1) if $\phi = 3x^2y - x^3y^2$.

Unit II

1. Find the unit normal vector to the surface $x^2 + y^2 = z$ at (1, -2, 5).
2. State Stoke's theorem.
3. Solve $(D^3 + D^2 - D - 1)y = 0$.

Unit III

1. Find the Laplace transform of unit step function.
2. State the initial value theorem under Laplace transforms.
3. Find $L^{-1} \frac{1}{(s+6)^3}$.

Unit IV

1. Define singularity of a function $f(z)$.
2. Define analytic function.
3. Find the fixed points of the transformation $w = \frac{2z+6}{z+7}$

Unit V

1. State sufficient conditions for the existence of Laplace transform.
2. State Cauchy's Residue theorem.
3. Find the residue of $f(z) = \frac{z^2}{(z-1)(z-2)}$ at $z = 2$.