

(Time: 3 hours)

Max.Marks:80

- N.B (1) Question No.1 is compulsory
(2) Answer any three questions from Q.2 to Q.6
(3) Use of Statistical Tables permitted
(4) Figures to the right indicate full marks.

- 1 a) Solve the equation $7 \cosh x + 8 \sinh x = 1$, for real values of x . 5
- b) Find α, β, γ when $A = \begin{bmatrix} 0 & 2\beta & \gamma \\ \alpha & \beta & -\gamma \\ \alpha & -\beta & \gamma \end{bmatrix}$ is orthogonal. 5
- c) If $u = 3(ax + by + cz)^2 - (x^2 + y^2 + z^2)$ and $a^2 + b^2 + c^2 = 1$ 5
show that $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} = 0$
- d) Find n^{th} derivative of $y = \frac{x}{x^2 + a^2}$ 5
- 2 a) If $\cos \alpha + 2 \cos \beta + 3 \cos \gamma = \sin \alpha + 2 \sin \beta + 3 \sin \gamma = 0$ then prove 6
that $\sin 3\alpha + 8 \sin 3\beta + 27 \sin 3\gamma = 18 \sin (\alpha + \beta + \gamma)$
- b) If $v = (x^2 - y^2) f(xy)$, show that $\frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} = (x^4 - y^4) f''(xy)$ 6
- c) If $y = e^{m \cos^{-1} x}$, then prove that 8
 $(1 - x^2) y_{n+2} - (2n + 1) x y_{n+1} - (n^2 + m^2) y_n = 0$. Find $y_n(0)$
- 3 a) Prove that $\sinh^{-1}(\tan x) = \log \left[\tan \left(\frac{\pi}{4} + \frac{x}{2} \right) \right]$ 6
- b) Verify Euler's theorem for $u = \left(\frac{x^2 + y^2}{x + y} \right)$ 6
- c) Examine the consistency of the system of equations 8
 $2x - y - z = 2, \quad x + 2y + z = 2, \quad 4x - 7y - 5z = 2$ and solve then
if found consistent.



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Ying Liu



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