

**LAQ**  
**UNIT - II**

1.	Solve $y' + y \tan x = \cos x$ , $y(0)=0$ .	CO2	BTL 2
2.	Find the orthogonal trajectories of $r^n \sin n\theta = c$ , where $c$ is the parameter.	CO2	BTL 2
3.	Solve $y' + 4xy + xy^3 = 0$	CO2	BTL3
4.	Solve the differential equation $ydx - xdy + e^x y^2 dx = 0$ .	CO2	BTL 3
5.	Solve $y(2x^2y + e^x)dx = (e^x + y^3)dy$ .	CO2	BTL3