United College of Engineering & Research

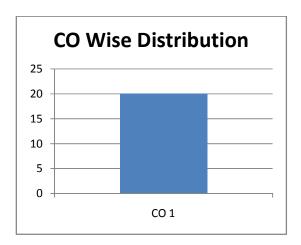
Department of Computer Science & Engineering/ Information Technology First Unit Test Paper, 2020-2021

B.Tech CSE (IV Semester) Mathematics IV (KAS-402)

Time: 40:00 Minutes **Max Marks:** 4*5=20

Note: Attempt any four questions and each question carries equal marks.

Ques.	Questions	CO
No.		
1.	Solve the following partial differential equation. $x^2 \frac{\partial z}{\partial x} + y^2 \frac{\partial z}{\partial y} = (x + y)z$	1
2.	Solve the following partial differential equation $zpq = p + q$	1
3.	Solve the following partial differential equation $(D+1)(D+D'-1)z = sinxcos2y$	1
4.	Solve the following partial differential equation. $(D^3 - 7DD^{,2} - 6D^{,3})z = \sin(x + 2y) + e^{(3x+2y)}$	1
5.	Solve the following partial differential equation. $(D^2 - D'^2 - 3D + 3D')z = xy + e^{x+2y}$	1



CO - Course Outcome