DAYANANDA SAGAR COLLEGE OF ENGINEERING

Date: 13/4/2018 Marks: 50

	Marks	LL	CO
1. Derive Mean and Variance for the Poisson Distribution	10	2	3
2. Test the validity of the arguments i)p Λ q Λ[p→(r Λq)] Λ[r→(svt)] Λ~s concludes t ii)p Λ(p→r) Λ[p→(qvr)] Λ(~qv~s) concludes	10	4	5
3. Using Taylor's series method, find y at x=0.1 and x=0.2 considering up to 4th degree terms. Given that dy/dx=x^2 y-1 and y(0)=1.	10	5	2
4. Obtain a solution up to the third approximation of y for x=0.2 by picard's method, given thatdy/dx+y=e^x ;y(0)=1.	10	3	1
5. Distinguish among following terminologies: Multiprogramming systems, multi-tasking systems or Time Sharing systems.	10	5	2