DAYANANDA SAGAR COLLEGE OF ENGINEERING

Date: 13/4/2018 Marks: 50

	Marks	LL	CO
1. Explain the different types of system calls.	10	6	1
2. Obtain y(0.2) using Picard's method up to second approximation for the initial value problem dy/dx=x^2-2y ,y(0)=1.	10	6	6
3. For any propositions p,q,r simplify the following using laws of logic i. (p ν q) ^ ~{(~p)ν q} ii. ~[~{(p ν q) ^ r} ν ~q]	10	4	2
4. In examination 7% of students score less than 35% marks and 89% of students score less than 60% marks, Find the mean and standard deviation, if the marks are normally distributed. It is given that if p (z) =1/√2π ∫_0^ze^(-z^2/2) dz then p (1.2263)=0.39 p(1.4757)=0.43.	10	5	3
5. Find the mean and variance of geometric distributions.	10	3	3

CO	Statement
1	Use the core python scripting concepts like control statements, string manipulation functions and the built-in data structures like list and dictionary.
2	Be able to design, code and test small python programs that make use of functions.
3	Demonstrate usage of file handling and pattern matching using regular expressions.
4	Build GUI for applications using python libraries.
5	Demonstrate MySQL database connectivity using python scripting.
6	Apply the knowledge of python and use the language scripting elements and constructs, data structures, and repository of standard library, to develop real world applications.