DAYANANDA SAGAR COLLEGE OF ENGINEERING

Date: 7/4/2018 Marks: 50

	Marks	LL	CO
1. In a certain town the duration of a shower is exponentially distributed with mean 5min. what is the probability that the shower will last for (i) 10min or more (ii) less than 10min (iii) between 10 to 12min.	10	5	3
2. Solve by Euler's modified method to obtain y(1.2) given dy/dx= (y+x)/(y-x) ,y(1)=2. Using step size h=0.2.	7	1	2
3. Define a system call with an example of how they are used	10	3	1
4. Examine whether the given compound proposition is a tautology [(pvq)$\rightarrow$r] $\leftrightarrow$[~r$\rightarrow$ ~(pvq)]	5	4	3
5. Derive Mean and S.D for the Exponential Distribution.	11	6	2
6. Explain microprocessor based personal computer system with the block diagram	7	6	2

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.