DAYANANDA SAGAR COLLEGE OF ENGINEERING

Date: 13/4/2018 Marks: 50

Marks LL CO

1. Explain special purpose registers	10	3	1
2. The weights of 1500 ball bearings are normally distributed with a mean of 635 gms and S.D of 1.36gms. If 300 random samples of size are drawn from this population, determine the expected mean and S.D of the sampling distribution of means if sampling is done a) with replacement b) without replacement.	10	3	3
3. 2% of the fuses manufactured by a firm are found to be defective. Find the probability that a box containing 200 fuses contains (i) No defective fuse (ii) 3 or more defective fuses (iii) atleast one defective fuse	10	2	2
4. 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.	10	1	2
5. List out and explain the different services that an OS provides	10	3	2

СО	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.