DAYANANDA SAGAR COLLEGE OF ENGINEERING

Date: 13/4/2018 Marks: 50

Marks LL CO

1. Derive Mean and S.D for the Exponential Distribution.	10	6	2
2. 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/ $\sqrt{2\pi} \int_{-0}^{2\pi} (-z^2/2) dz$ then p (1.2263)=0.39 p(1.4757)=0.43.	10	5	3
3. A random variable (X=x) has the following probability distributions x 0 1 2 3 4 5 6 7 P(x) 0 k 2k 2k 3k k^2 2k^2 (7k^2)+k Find: (i) k (ii) $p(x<6)$ (iii) $p(x>6)$ (iv) Mean. Also find the probability distribution and distribution function of x.	10	4	2
4. Explain the segment registers used in 8086 and explain clearly how physical address is calculated in 8086.	10	4	6
5. Explain special purpose registers	10	3	1

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.