

DAYANANDA SAGAR COLLEGE OF ENGINEERING

Date: 13/4/2018

Marks: 50

Marks LL CO

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| 1. Explain multi-programming and time sharing operating system. | 10 | 6 | 2 |
| 2. Explain the different types of system calls. | 10 | 6 | 1 |
| 3. List out and explain the different services that an OS provides | 10 | 3 | 2 |
| 4. For any three sets A, B and C, Prove that i) $(A \Delta B) = (B \cap A') \cup (A \cap B') = (B - A) \cup (A - B)$
ii) $(A \cap B) \cup (A \cap B \cap C' \cap D) \cup (A' \cap B) = B$. | 10 | 3 | 1 |
| 5. Explain dual mode operation with a neat diagram | 10 | 5 | 1 |

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.