

DAYANANDA SAGAR COLLEGE OF ENGINEERING

Date: 13/4/2018

Marks: 50

Marks LL CO

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| 1. Explain the following (i)Null hypothesis (ii)Alternative hypothesis (iii)Type I and type II error (iv)Level of significance (v)Standard error | 10 | 3 | 2 |
| 2. Explain special purpose registers | 10 | 3 | 1 |
| 3. List and explain the functions and services of an operating system and OS operations | 10 | 2 | 4 |
| 4. 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 |
| 5. Explain Real mode memory addressing. | 10 | 1 | 1 |

| CO | Statement |
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| 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. |