



B.Tech. II YEAR I Semester Examination NOVEMBER-2019

SUBJECT: Python Programming

BRANCH : CSE&IT

Time: 3 Hours

Max. Marks:75

Note: This question paper contains two *Parts A and B*.

*Part A* is compulsory which carries 25 Marks. Answer all the questions.

*Part B* consists of 5 questions. Answer all the questions.

**Bloom's Level:**

|            |    |          |    |
|------------|----|----------|----|
| Remember   | L1 | Analyze  | L4 |
| Understand | L2 | Evaluate | L5 |
| Apply      | L3 | Create   | L6 |

| PART - A                 |  | Bloom's Level | 25 Marks |
|--------------------------|--|---------------|----------|
| ANSWER ALL THE QUESTIONS |  |               |          |
| 1                        | Define package. Write the purpose of packages.   | L1            | 2M       |
| 2                        | How function declaration and calling can be done in python? Explain.   | L6            | 3M       |
| 3                        | Mention any four string operators. Explain with example.   | L5            | 2M       |
| 4                        | How to slice a list in Python. Give an example.  | L6            | 3M       |
| 5                        | Define data abstraction.   | L1            | 2M       |
| 6                        | How to make a Python class member variable hidden from outside the class?  | L6            | 3M       |
| 7                        | How code reusability is achieved? Give an example.   | L6            | 2M       |
| 8                        | Write short note on meta class.  | L5            | 3M       |
| 9                        | Define an exception. Mention any two exceptions.   | L1            | 2M       |
| 10                       | Write a syntax for opening a file in Python for writing only.  | L5            | 3M       |
| PART - B                 |  | Bloom's Level | 50Marks  |
| ANSWER ALL THE QUESTIONS |  |               |          |
| 11.i.a)                  | List and explain the data types in python.   | L2            | 5M       |
| b)                       | List various types of loops in python. Explain.  | L2            | 5M       |
| [OR]                     |  |               |          |
| ii.a)                    | Explain various built-in functions with examples.  | L2            | 5M       |
| b)                       | Write a Python program to find the largest any three integer numbers.  | L5            | 5M       |
| 12.i.a)                  | List and explain various regular expression functions with suitable examples.  | L2            | 6M       |
| b)                       | Explain briefly about dictionary in Python.  | L5            | 4M       |
| [OR]                     |  |               |          |
| ii.a)                    | Differentiate tuples and lists in Python?  | L4            | 5M       |
| b)                       | Explain various types of built-in string functions with examples.  | L2            | 5M       |
| 13.i.a)                  | List and explain various access specifiers in Python.  | L2            | 5M       |
| b)                       | How objects will be destroyed in Python. Explain.  | L6            | 5M       |
| [OR]                     |  |               |          |
| ii.a)                    | Write a Python program to read and display the following student details branch wise using classes: Student Name, Roll no, Branch. | L5            | 6M       |
| b)                       | Explain creating classes in Python with suitable examples.   | L2            | 4M       |
| 14.i.a)                  | List and explain various types of inheritance Python.  | L2            | 5M       |
| b)                       | Define an interface. Explain with suitable example.  | L1            | 5M       |
| [OR]                     |  |               |          |
| ii.a)                    | Explain in detail about operator overloading.  | L2            | 5M       |
| b)                       | Differentiate abstract class and interfaces.   | L4            | 5M       |
| 15.i.a)                  | Write a Python program to append some text at the end of a file.   | L5            | 6M       |
| b)                       | Explain in detail about file renaming and deleting.  | L2            | 4M       |
| [OR]                     |  |               |          |
| ii.a)                    | Explain exception handling with suitable example.  | L2            | 5M       |
| b)                       | List and explain various file opening modes in Python with examples.   | L2            | 5M       |

\*\*\*VJIT(A)\*\*\*