

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

QUESTION BANK

Unit Test-II (Shift:-I & II)

Program: - Computer Engineering Group

Program Code:- CM

Course Title: Programming with Python

Semester: - Sixth

Course Abbr & Code:-PWP (22616)

Scheme: I

4. PYTHON FUNCTIONS, MODULES AND PACKAGE (14 MARKS)

2 Marks

1. Describe User-defined Function in python.(CO4)
2. Define Module in python? How to create a module and use it. (CO4)
3. Write different types of arguments in a function. (CO4)
4. Explain from...import statement. (CO4)
5. Shows the use of reduce function with an example. (CO4)
6. State the use of keyword global with simple example. (CO4)
7. Explain Data Conversion functions in python. (CO4)

4 Marks

1. Define Package? Write the steps to create a package in python? (CO4)
2. Explain type conversion of variable in python. (CO4)
3. Write a function that takes single character and prints 'character is vowel' if it is vowel, 'character is not vowel' otherwise. (CO4)
4. Write a python program to calculate factorial of given number using recursive function. (CO4)
5. Write a python program to find reverse of a given number using user defined function. (CO4)
6. Explain the following package with suitable example(CO4)
i) numpy ii) scipy iii) pandas iv) matplotlib
7. Explain python built in module(CO4)
i) Numeric and Mathematical Module. ii) Functional Programming Module

5. OBJECT ORIENTED PROGRAMMING IN PYTHON(12 MARKS)

2 Marks

1. Define class? How to create an class and its object in python.(CO5)
2. State the use of parameter “self” in python class. (CO5)
3. Differentiate between method overloading and method overriding. (CO5)
4. Explain the use __str__() and __repr__() function in python. (CO5)
5. Explain Destructor in python. (CO5)
6. Describe Data Hiding. (CO5)
7. Explain constructor function in python class with example. (CO5)

4 Marks

1. Write a program to demonstrate parameterized constructor in base class and derived class(CO5)
2. Write a program to demonstrate constructor with default arguments. (CO5)
3. Write a program to create a python class and delete object of that class using del keyword. (CO5)
4. Explain inheritance in python with example. (CO5)
5. Create a class employee with data members: name, department and salary. Create suitable methods for reading and printing employee information. (CO5)
6. Explain data abstraction in detail. (CO5)
7. Describe term composition classes with example. (CO5)

6. FILE I/O HANDLING AND EXCEPTION HANDLING(12 MARKS)

2 Marks

1. List four file modes in python.(CO6)
2. Explain open() and close() methods for opening and closing a file. (CO6)
3. Write use of try:finally block with Syntax. (CO6)
4. Describe print() functions with example. (CO6)
5. Give the syntax and significance of input() method. (CO6)
6. State the use of read() and readline() function in python file handling mechanism. (CO6)
7. State the use of write() and writeline() function in python file handling mechanism. (CO6)

4 Marks

1. Explain with an example, how to rename or delete File or Directory. (CO6)

2. Explain exception handling with example using try, except, raise keywords. (CO6)
3. Explain how to create a user defined exception with an example. (CO6)
4. Write a python program which will throw exception if the value entered by user is less than zero. (CO6)
5. Write a python program to read contents of first.txt file and write same content in second.txt file. (CO6)
6. Explain seek() and tell() functions for file pointer manipulation. (CO6)
7. Explain following python functions: (CO6)
 - i. getcwd()
 - ii. mkdir()
 - iii. chdir()
 - iv. listdir()