CBCS SCHEME

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Fifth Semester B.E. Degree Examination, Jan./Feb. 2021
Application Development using Python

Time: 3 hrs.

Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Demonstrate with example print( ), input( ) and string replication. **(06 Marks)**
  b. Explain elif, for, while, break and continue statements in python with examples for each. **(10 Marks)**
  c. Write a Python program to check whether a given number is even or odd. **(04 Marks)**

OR

2 a. How can we pass parameters in user defined functions? Explain with suitable example. **(05 Marks)**
  b. Explain local and global scope with local and global variables. **(08 Marks)**
  c. Demonstrate the concept of exception. Implement a code which prompts the user for Celsius temperature, convert the temperature to Fahrenheit, and print out the converted temperature by handling the exception. **(07 Marks)**

Module-2

3 a. What is list? Explain append( ), insert( ) and remove( ) methods with examples. **(08 Marks)**
  b. How is tuple different from a list and which function is used to convert list to tuple. **(05 Marks)**
  c. Create a function to print out a blank tic – tac – toe board. **(07 Marks)**

OR

4 a. Discuss get( ), item( ), keys( ) and values( ) Dictionary methods in python with examples. **(08 Marks)**
  b. With example code explain join( ) and split( ) string methods. **(06 Marks)**
  c. Develop a program to accept a sentence form the user and display the longest word of that sentence along with its length. **(06 Marks**

Module-3

5 a. What are regular expression? Describe question mark, star, plus-and dot Regex symbols with suitable python code snippet. **(09 Marks)**
  b. With code snippet, explain saving variables using the shelve module and PPrint Pformat( ) functions. **(06 Marks)**
  c. Write a program that reads a string with five characters which starts with 'a' and ends with 'z'. Print search successful if pattern matches string. **(05 Marks)**

OR

6 a. Explain functions of Shutil Module with examples. **(08 Marks)**
  b. Explain buttons in the Debug control widow. **(05 Marks)**
  c. What is meant by compressing files? Explain reading, extracting and creating ZIP files with code snippet. **(07 Marks)**

Module-4

7 a. What is class, object, attributes. Explain copy·copy( ) with an example. **(06 Marks)**
   b. Demonstrate pure functions and modifiers with examples. **(08 Marks)**
   c. Use the datetime module to write a program that gets the current date and prints that day of the week. **(06 Marks)**

OR

8 a. Explain operator overloading and polymorphism with examples. **(08 Marks)**
   b. Illustrate the concepts of inheritance and class diagrams with examples. **(08 Marks)**
   c. Write a function called print time that takes a time object and print it in the form hour : minute : second. **(04 Marks)**

Module-5

9 a. Explain parsing HTML with the BeautifulSoup Module with code snippet for creating finding an element and getting data. **(09 Marks)**
   b. What methods do Selenium's web element object have for simulating mouse clicks and keyboard keys. Explain with python code snippet. **(06 Marks)**
   c. Write a python program to access cell in a worksheet. **(05 Marks)**

OR

10 a. Write a program to get a list of all files with the .pdf extension in the current working director and sort them. **(06 Marks)**
   b. Demonstrate the json module with python program. **(06 Marks)**
   c. What are the advantages of CSV files? Explain the Reader objects and Writer objects with python code. **(08 Marks)**

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