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15CS664

Sixth Semester B.E. Degree Examination, June/July 2018
Python Application Programming

Time: 3 hrs.   Max. Marks: 80

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

Module-1

1 a. List the rules to declare a variable in Phython. Demonstrate atleast three different types of variable uses with an example program. **(05 Marks)**

   b. Explain the rules of precedence used by Phython to evaluate an expression. **(05 Marks)**

   c. Write a Phython program to find the best of two test average marks out of three test's marks accepted from the user. **(06 Marks)**

OR

2 a. How Phython handles the exceptions? Explain with an example program. **(05 Marks)**

   b. Write a single user defined function named 'Solve' that returns the Remainder and Quotient on division of two numbers accepted from the user. Print the Remainder and Quotient separately on the console. **(06 Marks)**

   c. Predict the output and justify your answer : (i) $-11\%9$ (ii) $7.7 // 7$ (iii) $(200 - 70) * 10 / 5$ (iv) not "False"   (v) $5 * 1 ** 2$ **(05 Marks)**

Module-2

3 a. Demonstrate the use of break and continue keywords in looping structures using a snippet code. **(06 Marks)**

   b. Explain string slicing in Python. Show with examples. **(04 Marks)**

   c. Write a Phytho program to accept a sentence from the user and display the longest word of that sentence along with its length. **(06 Marks)**

OR

4 a. List and explain any four built in string manipulation functions supported by Python. **(06 Marks)**

   b. Write the Python code to display the last six characters of the string "Make hay while the sun shines" to the console. **(03 Marks)**

   c. Write a Pytho program to accept a file name from the user:
   (i)   Display the first N-lines of the file.
   (ii) Find the frequency of occurrence of the word accepted from the user in the file. **(07 Marks)**

Module-3

5 a. What are lists? Lists are mutable. Justify the statement with examples. **(05 Marks)**

   b. How tuples are created in Python? Explain different ways of accessing and creating them. **(05 Marks)**

   c. Write a Pytho program to read all the lines in a file accepted from the user and print all email addresses contained in it. Assume the email addresses contain only non-white space characters. **(06 Marks)**