B.Sc. Semester III (Honours) Examination, 2018-19
COMPUTER SCIENCE

Course ID : 31515   **Course Code : SHCSC-305SEC-1A(T)**

Course Title : Programming in Python

Time: 1 Hour 15 Minutes   **Full Marks: 25**

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* questions: 1×5=5

   (a) What are the different types of errors in programming?

   (b) Write two advantages of flowchart.

   (c) Write differences between top-down and bottom-up approach of programming.

   (d) What is Docstring in Python?

   (e) What is PUM?

   (f) Write down two important features of Python.

   (g) How will you convert an integer to octal in Python?

   (h) What are different numeric data types available in Python?

2. Answer *any two* questions: 5×2=10

   (a) Differentiate between Python and Java.

   (b) Write a program in Python to check a number is palindrome or not.

   (c) Draw a flowchart to find GCD of two nos.

   (d) Explain with example if and elif nested header in Python.

3. Answer *any one* question: 10×1=10

   (a) What is numeral literal? Give example. What is list? How lists differ from tuples? Explain the operator precedence of arithmetic operators in Python.

   (b) What is a dictionary in Python? Give example. Write a Python program to display Fibonacci series and draw a flowchart for the same.

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B.Sc. Semester III (Honours) Examination, 2018-19

COMPUTER SCIENCE

Course ID : 31515   **Course Code : SHCSC-305SEC-1B(T)**

Course Title : B : Unix/Linux Programming

Time: 1 Hour 15 Minutes   **Full Marks: 25**

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words
as far as practicable.

1. Answer *any five* questions: 1×5=5

    (a) What is Linux Kernel?

    (b) What is LILO?

    (c) Write full form and meaning of GUI.

    (d) How can you determine the total memory used by Linux?

    (e) What is the maximum length for any file name under Linux?

    (f) What is Shell Script?

    (g) What is Unix pwd command?

    (h) Write the general format of Unix commands syntax.

2. Answer *any two* questions: 5×2=10

    (a) What are the purposes of following commands in Unix— chmod, chown, chgrp, gzip.

    (b) Write a shell script in Unix to find sum of digits of a number.

    (c) Explain basic components of Linux.

    (d) What is CLI? Write advantages and disadvantages of it.

3. Answer *any one* question: 10×1=10

    (a) Explain some Linux Distros along with their usage.

    (b) Explain Linux shell briefly. Write a shell script to find factorial of a number.

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