

SH-III/Com. Sc.-305/SEC-1/19

B.Sc. 3rd Semester (Honours) Examination, 2019-20**COMPUTER SCIENCE****Course ID : 31515****Course Code : SH-CSC-305/SEC-1****Course Title: Programming in Python****Time: 1 Hour 15 Minutes****Full Marks: 25**

*The figures in the right hand side margin indicate marks.
Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* questions: 1×5=5
- What is flowchart?
 - What is top down programming approach? Give example.
 - What is decision table?
 - What is the use of '**' operator in python?
 - Name two types of scalar object python has.
 - How list are differ from tuple?
 - What is interpreter?
 - Write a python code segment to print 1 to 10 except 5 using 'for' statement.
2. Answer *any two* questions: 5×2=10
- What is tuple? How the literal of tuple are written? Give example.
 - Explain with an example of while loop, break statement and continue statement.
 - Draw the flowchart to accept three distinct numbers, find greatest and show result.
 - Predict the output and justify your answer:
 - $-11\%9$
 - $7\cdot7//7$
 - $(200-70)*10/5$
 - not "False"
 - $5*1**2$.
3. Answer *any one* question: 10×1=10
- Write a python program to initialize two matrices by taking data from the keyboard. Multiply them and show the result.
 - Write an algorithm to check whether a given number is prime or not. Write a python program to print first n prime numbers.
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B.Sc. 3rd Semester (Honours) Examination, 2019-20

COMPUTER SCIENCE

Course ID : 31515

Course Code : SH-CSC-305/SEC-1

Course Title: Unix/Linux Programming

Time: 1 Hour 15 Minutes

Full Marks: 25

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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 the difference between Linux and Unix?
 - (b) What is bash shell?
 - (c) Write full form of GUI and CLI?
 - (d) What are kind of permissions in Linux?
 - (e) What are environment variables?
 - (f) How can you append one file to another in Linux?
 - (g) What is the different file systems used in Linux?
 - (h) Can we use Linux OS through windows OS? How?
- 2. Answer *any two* questions:** 5×2=10
- (a) What are the purposes of following commands in Unix : grep, cat, ls, who, date.
 - (b) Explain briefly different shells used in different Linux operating systems.
 - (c) Write a bash shell script to find sum of odd numbers between 1 to 20.
 - (d) Why Linux considered as more secured than other OS.
- 3. Answer *any one* question:** 10×1=10
- (a) Explain some Linux Distros along with their usage.
 - (b) Write a shell script to check whether a given number is prime or not. Write a shell program to check whether a given number is palindrome or not.
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