

C. U. SHAH UNIVERSITY

Summer Examination 2017

Subject Name: **Python Programming**Subject Code: **4CS05IPP1**Branch: **B.Sc.IT**Semester: **5**

Date: 22/03/2017

Time: 02:30 To 05:30

Marks: **70****Instructions:**

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q. 1 Attempt the Following questions.

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| a) State the statement whether True or False: Python is an example of a high-level language. | 01 |
| b) Which symbol is used to commenting the statement in Python Programs? | 01 |
| c) What is concatenate? | 01 |
| d) Write the statement to import everything from the math module. | 01 |
| e) What will be output of below statement?
type('27') | 01 |
| f) What is the use of Modulus operator? | 01 |
| g) What is the meaning of String slices? | 01 |
| h) State the statement whether True or False: When you create a variable inside a function, it is local, which means that it only exists inside the function. | 01 |
| i) The operator “in” is a boolean operator that takes two strings and returns True if the first appears as a substring in the second. Give the example. | 01 |
| j) What is conditional statement? | 01 |
| k) Write the statement to close the opened file in Python Program. | 01 |
| l) State the statement whether True or False: Python is considered an compiler language because Python programs are executed by a compiler. | 01 |
| m) When infinite loop condition occurred? | 01 |
| n) State the statement whether True or False: Functions defined within a class are known as methods. | 01 |

Attempt any four from Q-2 to Q-8:**Q. 2 Attempt all questions.**

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| a) When more than one operator appears in an expression, the order of evaluation depends on the rules of precedence. Explain order of operations in detail. | 07 |
| b) Write note on type conversion functions. | 07 |

Q. 3 Attempt all questions.

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| a) Python has a math module that provides most of the familiar mathematical functions. List and explain atleast FIVE mathematical functions by example. | 07 |
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- b) Explain Recursion with example. 07
- Q. 4 Attempt all questions.**
- a) Explain in detail: A built-in function called *raw_input* that gets input from the keyboard 7
- b) Computers are often used to automate repetitive tasks. Write the flow of execution for a *while* statement which prints number from 1 to 10. 7
- Q. 5 Attempt all questions.**
- a) Write a program that will prompt the user for a file name and then print all the lines from the file that contain the Python comment character #. 7
- b) Within a Python program a file is represented by a value of type file. Give the examples of various operations that can be performed for opening, reading, writing, and closing the files. 7
- Q. 6 Attempt all questions.**
- a) What is tuples? Explain any five operations can be performed with strings. 7
- b) Explain triple quoted strings, raw strings and escape characters by example. 7
- Q. 7 Attempt all questions.**
- a) Write note on Break, Continue and Pass Statements. 7
- b) Write a python program which accepts any *expression* as input and display the result of expression evaluation. 7
- Ex. Sample Expression: $17 + 20 * (18 / 3) \% 2$
- Q. 8 Attempt all questions.**
- a) Write the Python program which counts the number of times the given letter appears in a string. 7
- b) Python provides a built-in function called *len* that returns the length of a string, so the value of `len('India')` is 5. 7
- Write a function named *right_justify* that takes a string named *str_country* as a parameter and prints the string with enough leading spaces so that the last letter of the string is in column 70 of the display.
- `>>> right_justify('India')`
- India

