



# C.ABDUL HAKEEM COLLEGE (AUTONOMOUS)

Melvisharam-632 509

Continuous Internal Assessment Test-II [U.G.]

## MODEL SEMESTER EXAMINATIONS

**Class:** II B.C.A.[C]

**Code:** U18MCA301

**Title of the Paper:** Python [Major-1]

**Maximum:** 75 Marks

**Duration:** 3 Hours

**Date & Session:** 21.10.2019 & F.N.

**Semester:** III

**Batch:** 2018-2021

### Section-A [10 X 2 = 20 Marks]

Answer ALL the Questions

1. Define python character set.
2. What are the rules for naming a variable?
3. Differentiate local and global variables.
4. Write the syntax for simple if statement.
5. Define functions.
6. What is meant by function prototype?
7. What is tuple?
8. Write the basic list operators in python.
9. Write the differences between methods and classes.
10. What is exception?

### Section-B [5 X 5 = 25 Marks]

Answer ALL the Questions

11. (a) Write and explain the features of python.

**OR**

(b) Briefly explain the operators available in python.

12. (a) Explain if else and while statement.

**OR**

- (b) Write the program in python for finding factorial of a number and GCD of two numbers(with sample input and output)

13. (a) Explain the mathematical functions.

**OR**

- (b) Explain the concept of recursion with examples.

14. (a) What is searching? Explain.

**OR**

- (b) Briefly explain the merge sort with example.

15. (a) Write a program in python for finding the prime numbers and for manipulation of 3 x 3 matrix multiplications[with sample input and output]

**OR**

- (b) Discuss the concept of exception handling.

### Section-C [3 X 10 = 30 Marks]

Answer any THREE Questions

16. Explain the different data types in python.
17. Write note on: built in functions and definite loop
18. Explain the concept of insertion and selection sort with appropriate example programs.
19. Write a simple calculator program in python[with sample input and output]
20. (a) What is object? Explain with example.  
(b) Differentiate custom and handling exceptions.

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