



ADITYA DEGREE COLLEGES

ANDHRA PRADESH

MID-I EXAMINATIONS 2025

Subject: BCA - Python programming

DATE:05.02.2025

TIME: 3 HRS

MAX MKS: 60 M

SECTION-A

Answer Any Five from the following questions

5 x 4 =20M

1. What are various datatypes in python? Explain with examples
2. What is a function? Explain how to create user defined functions with example
3. What are break& continue statements? Explain their usage with suitable examples
4. What is an exception?How can a user create their own exception in python? Explain with an example
5. What are different types of formal arguments provided within a function? Illustrate with examples
6. What is a module? Explain various math functions in detail.
7. What is meant by recursive function? Write a program to print factorial of a number using recursion
8. What is meant by polymorphism? Explain method overriding with example

SECTION - B

Answer All questions from the following

4 x 10 =40M

9. a) What is a string? Explain string handling functions?

(OR)

b) How will you define a class and use it in python? Explain attributes & methods of a class

10. a) What are the various operators in python? **(OR)**

b)What is the mechanism of inheritance? Explain its types with examples

11. a)What are control statements? Explain Sequence & conditional statements in python with relevant examples? **(OR)**

b) What is meant by indentation? Explain various looping statements with suitable examples

12. a)Explain various operations that can be performed on strings

(OR)

b)What are the two types of variables defined based on scope? Explain the differences between them