

Section-D

8. (a) What are Python OOPs Concepts ? What are classes and objects ? Write the syntax to create class and object.
(b) How operator overloading can be implemented in Python ? Give an example. 7,8
9. (a) What are the differences between abstract class and interface ?
(b) Define inheritance and list out different types of inheritances with suitable example. 7,8

3331_900

(4)

RD-3476

Roll No. :

Total No. of Questions : 9]

[Total No. of Pages : 4

3331

B.Tech. (ECE) 6th Semester (Supplementary)

Examination, July-2021

(G Scheme) (Open Elective-II)

PYTHON PROGRAMMING

Paper-OEC-ECE-318-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note :- Section-A (Question No. 1) is compulsory.

Answer one question from each of the remaining four Sections. All questions carry equal marks.

1. (i) What are the common built-in data types in Python ?
(ii) What is pass in Python ?
(iii) What is break and continue in Python ?

3331_900

(1)

RD-3476 P.T.O.

- (iv) Explain how to delete a file in Python.
- (v) What are negative indexes and why are they used ? 3×5=15

Section-A

- 2. (a) Explain about the need for learning python programming and its importance.
- (b) Write the rules for choosing names of variables. 7,8

- 3. (a) Illustrate the different types of control flow statements available in Python with flowcharts. Explain with suitable examples.

- (b) Give a note on each of the below Python language constructs :
 - (i) Quotes (single, double and triple)
 - (ii) Multilines statements
 - (iii) Indentation 7,8

Section-B

- 4. (a) Write the python code to display the last six characters of the string "waiting for COVID-19 Third Phase" to the console.

- (b) What is String ? Explain the concept of slicing and indexing with proper examples and figures. 7,8

- 5. (a) How to convert the strings to numbers and vice versa in python ?

- (b) Write the syntax to create, open and close a file. List out different types of file modes in python with suitable example. 7,8

Section-C

- 6. (a) Give a comparison between lists, tuples, dictionaries and sets.

- (b) Write pythonic code to find the factorial of a number. 7,8

- 7. (a) What is a list in Python ? How to create nested lists ? Demonstrate how to create and print a 2-dimensional matrix with lists.

- (b) What is Dictionary ? List out all the useful string methods which supports in python. Illustrate with an example python program the usage of nested dictionary. 7,8