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Total No. of Questions : 9]

SEAT No. :

PA-4300

[Total No. of Pages : 3

[5924]-9

F.E.

PROGRAMMING AND PROBLEM SOLVING

(2019 Pattern) (Semester-II) (110005)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Question one is compulsory.*
- 2) *Solve Q2 or Q3, Q4 or Q5, Q6 or Q7 and Q8 or Q9.*
- 3) *Neat diagrams must be drawn wherever necessary.*
- 4) *Assume suitable data wherever necessary.*

Q1)

[10]

- a) Which of the following keyword is used in user defined function header in Python?
 - i) define
 - ii) def
 - iii) function
 - iv) fun
- b) Which one of the following is the correct way of calling a function?
 - i) f_name()
 - ii) call f_name()
 - iii) return f_name()
 - iv) function f_name()
- c) Which function is used to convert a numeric value to a character.
 - i) ord()
 - ii) chr()
 - iii) input()
 - iv) output()
- d) What is the correct file extension for python files?
 - i) .pt
 - ii) .pyt
 - iii) .py
 - iv) .cpp
- e) Which method can be used to return a string in upper case letters?
 - i) toupper()
 - ii) upper()
 - iii) uppercase()
 - iv) touppercase()
- f) Which method is automatically executed when an object of a class is created?
 - i) _init_()
 - ii) _call_()
 - iii) _repr_()
 - iv) _del_()

P.T.O.

- g) You can use Python for
 - i) Application programming ii) Web programming
 - iii) Artificial Intelligence iv) All of these
- h) Which is the default access mode in the open () function for files in Python?
 - i) w ii) r
 - iii) a iv) w+
- i) What does open() function return?
 - i) function ii) variable
 - iii) file object iv) None of these
- j) Which of the following is the correct way of closing a file?
 - i) close(file) ii) close("file")
 - iii) file.closed() iv) file.close()

- Q2)** a) Define a function. Explain function definition and function call with an example. [6]
- b) What do you mean by local and global variables? Explain it with example. [5]
- c) Write a program to swap two numbers using a function. [4]

OR

- Q3)** a) Explain the following types of function arguments with examples: [6]
- i) Required arguments
 - ii) Keyword arguments
- b) What is a lambda function? Explain it with a suitable example. [5]
- c) What are the good Python programming practices? [4]

- Q4)** a) Explain any three string operations with suitable example. [6]
- b) Explain slicing operation on string with suitable example. [5]
- c) Write a program to count the number of characters and words in the given string. s= "Programming and Problem Solving" [4]

OR

- Q5)** a) Explain following string methods with example. [6]
- i) count()
 - ii) find()
 - iii) swapcase()
- b) What is a string? With the help of an example explain string comparison operators. [5]
- c) Explain ord() and chr() functions with suitable examples. [4]

- Q6)** a) Explain any three programming paradigms. [6]
- b) Define a class in Python. Explain `_init_()` method with suitable example. [5]
- c) Explain the concept of Inheritance and Polymorphism. [4]

OR

- Q7)** a) Explain the features of Object Oriented Programming. [6]
- b) Explain class variables and object variables with suitable example. [5]
- c) Explain class method with suitable example. [4]

- Q8)** a) What is a file? Differentiate between text and binary file. [6]
- b) What is a dictionary? Explain how to create and access dictionary elements. [5]
- c) Explain relative and absolute path of a file. [4]

OR

- Q9)** a) Explain any three methods for reading and writing files. [6]
- b) Explain different directory methods with suitable examples. [5]
- c) Write a program to copy the contents of one file to another file. [4]

