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SEAT No. :

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P4937

[5667]-1008

F.E. (Semester - I)

PROGRAMMING & PROBLEM SOLVING

(2019 Pattern)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data wherever necessary.

Q1) a) What is function? Explain code reuse. Explain with example Docstring. [6]

b) Explain Lambda function with example. [6]

c) Write python program using function to find greatest of three numbers by passing numbers as argument. [6]

OR

Q2) a) Differentiate between Local & Global variable. Write a python program to demonstrate difference between local and global variable. [6]

b) Explain keyword arguments in python. Write a python program to demonstrate keyword arguments. [6]

c) Write python program using function to find whether number is odd or even. [6]

Q3) a) Explain following string methods with example. [6]

i) Rindex

ii) Zfill

iii) Split

b) Write a python program to display tables from 1 to 10 using formatting character. [6]

P.T.O.

c) What will be the output of following statement S = "Welcome to Python". [5]

i) Print (s[1:9])

ii) Print (s[:6])

iii) Print (s[4:])

iv) Print (s[: -1])

v) Print ("Come" not in str)

OR

Q4) a) Explain following string methods with example : [6]

i) Join

ii) Enumerate

iii) A strip

b) Write python, program to find whether a given character is present in a string or not. In case it is present print the index at which it is present. Do not use built in string method. [6]

c) Write a python program to check whether a given string starts with specified character. [5]

Q5) a) Define programming paradigm. List programming paradigms. Explain any one. [6]

b) Justify the statement "Inheritance helps to make reusable code". [6]

c) Write a python program that uses class to store exam number and marks of four subjects. Use list to store the marks of four subjects. [6]

OR

Q6) a) Explain following Terms : [6]

i) Data Abstraction & Encapsulation

ii) Polymorphism

b) With the help of an example explain the significance of the inif () method. [6]

c) Write a python program to create class car with two attributes name & cost. Create two objects and display information. [6]

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- Q7) a) Write a python program that reads data from one file and write into another file and line by line. [6]
b) What is directory? List any four directory methods and explain any two of them. [6]
c) Why do we need files? Explain relative and absolute path in files. [5]
- OR
- Q8) a) Write a python program that counts the number of tabs and new line characters in a file. [6]
b) Write a python program to display current directory, create directory and remove created directory. [6]
c) Differentiate between text and binary files. Explain any 4 access modes used in python. [5]
