

1. All Questions are compulsory.
2. All Questions carry equal marks.

Q.1 Answer the following. (Attempt any four)

[20marks]

- a. Explain any five methods for manipulating directories.
- b. What is With statement in Python?
- c. Explain meta characters in Regular expression.
- d. Write a program to show deadlocks in threads.
- e. Write a program to show multitasking with the help of threads.
- f. Write a program to combine date and time in Python.

Q.2 Answer the following. (Attempt any four)

[20marks]

- a. Write a program to show the use of cursor in database connectivity.
- b. What is User defined Exceptions? Explain with an example.
- c. Explain the difference between compile time and run time errors.
- d. Write a program to create a chat application using UDP.
- e. Write a program to create radio buttons in Python.
- f. What is GUI Interface? Explain its advantages and disadvantages.

Q.3 Answer the following.(Attempt any four)

[20marks]

- a. What is encapsulation in Python?
- b. Explain the difference between Abstract class and Interface in Python.
- c. Write a program to show multiple inheritance.
- d. What is method overloading? Explain with an example.
- e. Write a program to show method resolution order in Python.
- f. Write a program to show the use of static methods.

Q.4 Answer the following.(Attempt any five)

[15marks]

- a. Write a program to append data into a file.
- b. Explain Entry and Label widget in Python.
- c. Explain the use of finally statement.
- d. What is Duck typing in Python?
- e. Write a program to show the use of calendar module in Python.
- f. Explain 3 Quantifiers in Regular Expressions.
