

(2½ Hours)

[Total Marks: 75]

- N.B.:** 1) All questions are **compulsory**.
 2) **Figures** to the **right** indicate **marks**.
 3) Illustrations, in-depth **answers** and **diagrams** will be appreciated.
 4) Mixing of **sub-questions** is **not allowed**.

Q. 1 Attempt all. (Each of 5 marks)

(15M)

(a) Multiple Choice Questions (Choose the correct alternative.)

(5M)

- (i) The _____ method is used to display the current working directory.
 (a) getcwd() (c) mkdir()
 (b) chdir() (d) rmdir()
- (ii) **Grid** is used for _____.
 (a) Positioning widgets at absolute locations.
 (b) Arranging widgets.
 (c) Packing widgets into a cavity.
 (d) All of the above.
- (iii) **Python exceptions** are caught by the _____ keyword.
 (a) catch (c) try
 (b) except (d) throw
- (iv) **This method binds the socket to address.**
 (a) socket.socket() (c) socket.bind(address)
 (b) socket.accept() (d) socket.listen()
- (v) **The _____ is a standard tkinter widget used to implement one of many selections buttons.**
 (a) Option button (c) Radio Button
 (b) CheckBox Button (d) None of the mentioned
- (b) **Fill in the blanks.** (5M)
 {TCP/IP, UDP, SMTP, FTP, os.remove('file'), os.delete('file'), readline(),
 readlines(), focus, create }
 (i) To draw things in the canvas, use the _____ methods to add new items.
 (ii) _____ function is used to read single line from file.
 (iii) _____ deletes a file.
 (iv) _____ protocol is used to send mail.
 (v) Connected less communication can be establish using _____.

(c) Short Answers Write answers in one or two lines.

(5M)

- (i) Finally clause
 (ii) Attributes of file object
 (iii) mysql connector
 (iv) socket() function
 (v) Connection oriented communication in python

- Q.2 Attempt the following:(ANY THREE) (Each of 5 marks) (15M)**
- Write a python program to read contents of 'first.txt' file and write same content in 'second.txt' file.
 - What are various modes of file object? Explain any five.
 - Define Iterator with example.
 - Explain exception handling with example using try, except, raise keywords.
 - Give syntax and example of following functions.
 - mkdir
 - chdir
 - Differentiate between match() and search() function. Explain with example.
- Q.3 Attempt the following:(ANY THREE) (Each of 5 marks) (15M)**
- What is GUI programming? Write advantage and disadvantage.
 - Write a python program to accept a number from user on entry box. Display whether entered number is even or odd on message box as user clicks on show button.
 - Explain any five options of pack() method.
 - Discuss event handling formats. (any five)
 - List the widgets which provided by tkinter module. Explain any four.
 - Write a python program to display five graphical shapes on Canvas.
- Q. 4 Attempt the following:(ANY THREE) (Each of 5 marks) (15M)**
- Write a python program to create connection oriented server program.
 - How to read properties of URL? Explain it with example.
 - What is database connectivity in Python? Explain.
 - Give a short note on SMTP. Explain how to create SMTP object in python.
 - Explain exception in database connectivity in python.
 - Establish a connection between python and database and write a python to display all records from Employee table(Empno, Empname, Dept, Salary). Assume records are already inserted in table.
- Q. 5 Attempt the following:(ANY THREE) (Each of 5 marks) (15M)**
- Explain transaction with rollback and commit in python.
 - What is regular expression? State and explain regular expression patterns. (any four)
 - How to use fonts and colours in python? Specify example.
 - Which functions are used to find file position? Explain with example.
 - Write a short note on Layout Manager.
