

33

24

(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

ques (5)

124

Q.2 Attempt the following:(ANY THREE) (Each of 5 marks) (15M)

- (a) Write a python program to read contents of 'first.txt' file and write same content in 'second.txt' file.
- (b) What are various modes of file object? Explain any five.
- (c) Define Iterator with example.
- (d) Explain exception handling with example using try, except, raise keywords.
- (e) Give syntax and example of following functions.
 - (i) mkdir
 - (ii) chdir
- (f) Differentiate between match() and search() function. Explain with example.

Q.3 Attempt the following:(ANY THREE) (Each of 5 marks) (15M)

- (a) What is GUI programming? Write advantage and disadvantage.
- (b) 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.
- (c) Explain any five options of pack() method.
- (d) Discuss event handling formats. (any five)
- (e) List the widgets which provided by tkinter module. Explain any four.
- (f) Write a python program to display five graphical shapes on Canvas.

Q. 4 Attempt the following:(ANY THREE) (Each of 5 marks) (15M)

- (a) Write a python program to create connection oriented server program.
- (b) How to read properties of URL? Explain it with example.
- (c) What is database connectivity in Python? Explain.
- (d) Give a short note on SMTP. Explain how to create SMTP object in python.
- (e) Explain exception in database connectivity in python.
- (f) 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)

- (a) Explain transaction with rollback and commit in python.
- (b) What is regular expression? State and explain regular expression patterns. (any four)
- (c) How to use fonts and colours in python? Specify example.
- (d) Which functions are used to find file position? Explain with example.
- (e) Write a short note on Layout Manager.