

(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.

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