Question bank Python from unit 3 onwards

1. What are list? How to define, traverse and delete element in the list?
2. List in python are mutable. Justify.
3. Write a short note on tuple and explain its basic operations.
4. What is dictionary? How to create and access it?
5. Explain the properties of dictionary keys.
6. Explain various types of file modes.
7. What is directory? Which methods are available to deal with directories.
8. What is exception? List and explain any five built in exception in python.
9. What are regular expression? Explain any five patterns.
10. Explain the search and match functions.
11. Write a short note on class in python.
12. Explain the concept of method overriding with suitable example.
13. Explain the Object oriented principals.
14. Write a short note on constructors.
15. What is multithreading? Write short note on thread module.
16. How to synchronize thread explain in detail.
17. Write short note on multithreaded priority queue.
18. What is module? Explain any 5 functions from math and random module.
19. Write short note on : creating GUI with tkinter.
20. Write a short note on following widget.(each for 5 marks)
    a. Anchors
    b. Bitmaps
    c. cursor
    d. label
    e. button
    f. checkbutton
    g. radiobutton
    h. canvas
    i. listbox
    j. menubutton
    k. menu
    l. message
    m. entry
    n. scrollbar
    o. text
    p. spinbox
    q. Grid manager

21. List and explain steps to connect with database.