

OR

- 6 a. What is dictionary? Write a python program to count occurrence of words in a file and print the count. (08 Marks)
- b. Explain extracting data using regular expressions implement python program to find for lines having '@' symbol between non blank characters in a file. (08 Marks)
- c. Compare and contrast lists and tuples. (04 Marks)

Module-4

- 7 a. Explain init and str method with an example python program. (10 Marks)
- b. What is Operator overloading? Write python code to overload "+", "-" and "*" operators by providing the methods `__add__`, `__sub__` and `__mul__`. (06 Marks)
- c. Define class and object. Explain with example. (04 Marks)

OR

- 8 a. What is a pure function? Write a python program to find duration of event if start and end time is given by defining class TIME. (10 Marks)
- b. Write a python program that uses date time module within a class takes birthday as input and points the age and the no of days, hours, minutes and seconds until next birthday. (10 Marks)

Module-5

- 9 a. Demonstrate with the help of python construct
- i) How to retrieve an image over HTTP
 - ii) How to retrieve web pages with Urllib. (10 Marks)
- b. Write a note on Google Geocoding Web service. Using python supported libraries demonstrate with snippet code. (10 Marks)

OR

- 10 a. Write a python program for creating employee database, inserting records and selecting employers working in the company. (10 Marks)
- b. Describe creation of database table using database cursor architecture. (10 Marks)
