VCD_0510/2017 F.Y.B.S.C (C.S.) -Computer II -SEM-I 75-21/2HRS

Q.1Answer the following.(Attempt any four)

[20marks]

- a. What is translator? Explain its types.
- b. Define programming language and explain its characteristic.
- c. Explain any 5 built in functions in python.
- d. Describe structure of a program.
- e. Write an algorithm and draw a flowchart to find factorial of a given number.
- f. Explain different data types in python.
- g. Explain relational and assignment operators in detail.
- h. Write a program to demonstrate basic input and output statements in python.

Q.2 Answer the following.(Attempt any four)

[20marks]

- a. Write a program to determine whether the given number is even or odd.
- b. Explain nested if statement with an example.
- c. Explain while loop with an example.
- d. Describe basic syntax of for loop with an example.
- e. Explain break and continue statement.
- f. Write a program to update a list at index value 2.
- g. Write a program to swap items in two tuples...
- h. Explain isalnum(),upper(), replace() with examples.

Q.3 Answer the following.(Attempt any four)

[20marks]

- a. Write a program in python to merge two dictionaries.
- b. What is a dictionary? Explain with example.
- c. Explain random module in python.
- d. Define functions and give its advantages.
- e. Write a program to differentiate between local and global variable.
- f. Describe lambda function in python.
- g. Write a function to calculate area of circle and call the function.
- h. Create a bill module and import that module in python.

Q.4 Answer the following.(Attempt any three)

[15marks]

- a. Write a program to input 5 employees salary and find minimum and maximum salary among 5 employees using tuples.
- b. Explain any five dictionary methods.
- c. Explain any 5 tuple operations.
- d. Write a program to display table of 2.
- e. Explain need for algorithm.
- f. Using for loop, write program that prints out the decimal equivalent of ½, 1/4...