

OR

- 6 a. Using loops, print the following pattern:
 P P P P P
 P P P P
 P P P
 P P
 P
 (04 Marks)
- b. Explain the following list methods with example:
 i) extend (v) ii) insert (i, v) iii) remove (v) iv) reverse () (08 Marks)
- c. Predict the output of the following code:
 >>> S = 'C3H7'
 >>> total = 0
 >>> count = 0
 >>> for i in range (len (s)):
 if s[i].isalpha ():
 continue
 total = total + int (s[i])
 count = count + 1
 ...
 >>> print (total, count) (04 Marks)

Module-4

- 7 a. How can we use 'with' statement while opening a file? Explain. (04 Marks)
- b. Differentiate between tuples and sets based on their mutability, orderedness and uses. (04 Marks)
- c. Predict the output of the following and explain.
 Given lows = {0, 1, 2, 3, 4}
 odds = {1, 3, 5, 7, 9}
- i) lows-odds ii) lows and odds
 iii) lows <= odds iv) lows|odds (08 Marks)

OR

- 8 a. Write a Python program to read a word and print the number of letters, vowels and percentage of vowels in the word using dictionary. (08 Marks)
- b. Write a python program for the following file operations.
 Press 1 : Open file in read mode
 Press 2 : Open file in write mode
 Press 3 : current position of file pointer
 Press 4 : Reposition the pointer at the beginning. (08 Marks)

Module-5

- 9 a. Write a note on: i) isinstance () ii) __init__ () (06 Marks)
- b. Write an object-oriented program to create 2 time objects: current_time and bread_time which contains bread baking time. Include addTime method to display the total time taken by the bread maker to prepare a bread. (10 Marks)

OR

- 10 a. Write a note on the usage of the module tkinter. (06 Marks)
- b. Explain any six tkinter widgets. (06 Marks)
- c. Write a tkinter program to design a GUI window that has a label of background color green and foreground color white. (04 Marks)

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