

29. a. Write a function named `print_big_enough` that accepts two parameters, a list of numbers and a number. The function should print, in order, all the elements in the list that are at least as large as the second parameters.

(OR)

- b. Write a program that read numbers specified by space in a line and add into the list read a number from the list and print only one by eliminating duplicates.
30. a. Write short notes on dictionary and its built in methods with example.

(OR)

- b. Create a dictionary of 290 random values in the range of 1–99. Determine whether there any duplicate values in the dictionary exists to delete it.
31. a. Explain the various techniques to format the strings in python with suitable example.

(OR)

- b. Write a program that prompts user to enters a string and find all non-duplicate characters and its occurrences.
32. a. Write a program that replaces the test in a file. Also count the occurrence of a given string in the file.

(OR)

- b. Write a python code to read the contents of file and replace all the vowels with '#' symbol. Rewrite the contents into a new file.

\*\*\*\*\*

Reg. No.

**B.Tech. DEGREE EXAMINATION, DECEMBER 2018**

Fourth/Fifth/Sixth Semester

**SE1142 – PROGRAMMING USING PYTHON**

(For the candidates admitted during the academic year 2013 – 2014 and 2014 -2015)

**Note:**

- (i) **Part - A** should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45<sup>th</sup> minute.
- (ii) **Part - B** and **Part - C** should be answered in answer booklet.

Time: Three Hours

Max. Marks: 100

**PART – A (20 × 1 = 20 Marks)**

Answer **ALL** Questions

- What does the following code do?  
`def a(b,c,d):`  
`pass`  
(A) Define a list and initialize it (B) Define a function, which passes it parameter  
(C) Define a function, which does nothing (D) Define a empty class
- Which of the following is an invalid variable?  
(A) `my_string_1` (B) `1st_string`  
(C) `too` (D) `my_string`
- What is the return type of function `id`?  
(A) `int` (B) `float`  
(C) `bool` (D) `dict`
- What is the output of the following?  
`X= "abcdef"`  
`while i in X:`  
`print (i, end= " ")`  
(A) `a b c d e f` (B) `abcdef`  
(C) `iiiiii----` (D) `Error`
- What is the output of the following?  
`i=1`  
`while True:`  
`if i%2==0:`  
`break`  
`print(i) i+=2`  
(A) `1` (B) `1 2`  
(C) `1 2 3 4 5 6 ---` (D) `1 3 5 7 9 11---`

6. How many elements are in m?  
M=[[X,y] for X in range (0,4) for Y in range (0,4)]  
(A) 8 (B) 12  
(C) 16 (D) 32
7. Suppose list1 is [1,5,9] what is sum (list1)?  
(A) 1 (B) 9  
(C) 15 (D) error
8. Which of the following is a python tuple?  
(A) [1,2,3] (B) (1,2,3)  
(C) {1,2,3} (D) {}
9. What is the output of the following code?  
nums=set([1,1,2,3,3,3,4,4])  
print(len (nums))  
(A) 7 (B) error, invalid syntax for formation of set  
(C) 4 (D) 8
10. Which of the following functions cannot be used on heterogeneous sets?  
(A) pop (B) remove  
(C) update (D) sum
11. What is the output of the following code?  
a={}
a[2]=1
a[1]=[2,3,4]
print(a[1][1])  
(A) [2,3,4] (B) 3  
(C) 2 (D) An exception is thrown
12. Which of these about a dictionary is false?  
(A) The values of a dictionary can be accessed using keys (B) The keys of a dictionary can be accessed using values  
(C) Dictionaries are mutable (D) Dictionaries are not ordered
13. Which of the following formatting options can be used in order to add 'n' blank spaces after a given string 'S'?  
(A) Print("-ns"%S) (B) Print("+ns"%S)  
(C) Print("%ns"%S) (D) Print("%-ns"%S)
14. What is the result of the expression shown below if X=56.236?  
print("%.2f"%X)  
(A) 56.00 (B) 56.24  
(C) 56.23 (D) 0056.236
15. The formatting method {1:<10} represents the \_\_\_\_\_positional argument, \_\_\_\_\_justified in a 10 characters wide field.  
(A) First, right (B) Second, left  
(C) First, left (D) Second, right

16. What is the output of the code shown below?  
'The {} side {1}{2}'  
format ('bright', 'of', ' life')  
(A) error (B) 'The bright side of life'  
(C) 'The {bright} side {of} {life}' (D) No output
17. To read the entire remaining contents of the file as a string from a file object infile, we use  
(A) infile.read(2) (B) infile.read()  
(C) infile.readline() (D) infile.readlines()
18. Which one of the following is not attributes of files?  
(A) closed (B) softspace  
(C) rename (D) mode
19. Which of the following is not a valid mode to open a file?  
(A) ab (B) rw  
(C) r+ (D) w+
20. How do you get the current position within the file?  
(A) fp.seek() (B) fp.tell()  
(C) fp.loc (D) fp.pos

#### PART – B (5 × 4 = 20 Marks)

Answer ANY FIVE Questions

21. List any four advantages of python over any other programming languages that you know.
22. Differentiate between the sequence type list and tuple.
23. Write a python code that reads in numbers separated by space and print distinct elements.
24. Write a note on methods of set, a sequence container in python.
25. Write a python code that prompts to enter a input string and count the number of words, vowels and consonants in the string.
26. Write functions that accepts the input as minutes value from users and convert to years and days.
27. Suppose that a text file contains an unspecified number of score. Write a code to find the total and average of all the scores.

#### PART – C (5 × 12 = 60 Marks)

Answer ALL Questions

28. a. Explain with suitable examples about the decision making in python.

(OR)

- b. Write a program to validate the password with the following rule. Password must contain 8 characters, two digits inclusive and no other symbol allowed.