

GANPAT UNIVERSITY**B. TECH SEM-V (COMPUTER ENGINEERING/INFORMATION TECHNOLOGY)****REGULAR EXAMINATION- NOV-DEC 2016****2CE507/2IT507: WEB TECHNOLOGY****TIME: 3 HRS****TOTAL MARKS: 60**

- Instructions:** (1) This Question paper has two sections. Attempt each section in separate answer book.
 (2) Figures on right indicate marks.
 (3) Be precise and to the point in answering the descriptive questions.

SECTION: I**Q.1**

- A** Answer the following: 6
1. What will be the output for list ("hello")?
 2. What will be the output of print str [2:5] if str = "Hello World"?
 3. What is the purpose of the ** operator in python?
 4. What will be the output of ['Hi'] * 4?
 5. What will be the output of print float (5)/4?
 6. What will be output for the following code:

```
>>> b = ' Welcome to the world of python '
>>> print b.split()
```
- B** What is the meaning of dynamic type and static type languages? Explain it with example. 4

OR**Q.1**

- A** Write a program to reverse the given number. 5
- B** Write a python code to replace a substring with new substring. 5

Q.2

- A** What will be the output for the following code: 6
1.

```
var1 = 'Hello World!'
var2 = "Welcome To The World of Python Programming"
print "var1[0]: " , var1[0]
print "var2[1:5]: " , var2[1:5]
```
 2.

```
>>> a = [66.25, 333, 333, 1, 1234.5]
>>> a.insert(2, -1)
>>> print a
>>> a.insert(10, -1)
>>> print a
```
 3.

```
>>> combs = [ ]
>>> for x in [1,2,3]:
...   for y in [3,1,4]:
...     if x != y:
...       combs.append((x, y))
>>> combs
```

- B** List and explain the features of python. 4

OR**Q.2**

- A** Write a program to take any list which containing integer and float numbers and find the largest item, smallest item and calculate the sum of all items. 6
- B** Differentiate: Compiler Language Vs Interpreted Language 4

Q.3

- A** Discuss the native data types of Python with example. 5
- B** Explain slices. 5

Give output of following program:

```
list1 = [14, 26, 4, 3, 7, 6, 9, 4, 65, 3, 8, 6, 30, 2]
list2 = list1[3:12:3]
list2[2] += list1[4]
list1[0] = list2[1]
print(list2)
```


SECTION: II

- Q.4
- A List and explain Bit-wise operators and Boolean operators of python with example. 6
- B What will be output for the following program: 4
1. list = ['a', 'b', 'c', 'd']
print list [1: -1]
list [0: 2] = 'z'
print list
 2. >>> a = [4, 2, 1, 6]
>>> print sorted (a)
>>> b = [6,9,3,7, 'Hi', 'Hello']
>>> print sorted (b)

OR

- Q.4
- A Consider list is initialized with a = [2.4, 3.5, 4.8, 5.9, 4.7, 3.6, 6.7]. Write a program to convert initialized list to a = [2.4, 3.5, 4.8, 5.9, 4.7, 3.6, 6.7] and then generate sorted list a = [2.4, 3.5, 3.6, 4.7, 4.8, 5.9, 6.7]. 6
- B "A tuple is a sequence of immutable Python objects"--- What is the meaning of statement? Justify it with example. 4

- Q.5
- A Write user defined function to check whether the given character is upper, lower or digit. 5
- B Write a user defined function to find the roots of quadratic equation. 5

OR

- Q.5
- A List out and explain the built-in dictionary functions with example. 5
- B Write a program to find the letter from word and print its index position. 5
(Note: Define your customize find function, Take any word)

- Q.6
- A List out all the methods of dictionary and write the description of any four with example. 5
- B Answer the following: 5
1. What is Assert in Python? Write the syntax and explain it with example.
 2. What is Exception? How to handle an exception in python explain it with example.

-----END OF PAPER-----