

COURSE CODE: 18B1WCI731

MAX. MARKS: 25

COURSE NAME: Python Programming

MAX. TIME: 90 Minutes

COURSE CREDITS: 3

Roll No.....

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. [CO-3] A dictionary named 'Grades' is created as: `grades={"Sahil": 89, "Amit": 76}`. What do the following statements do?
 - a. `print(len(grades))`
 - b. `grades["Amit"]+=7`
 - c. `grades["Payal"]=60`
 - d. `print(grades.items())`
 - e. `del grades["Sahil"]`

[5 Marks]
2. [CO-1] Discuss in detail various types of operators supported by Python? Also find out output of the following python code:
 - a. `P=7`
`Q=4`
`R=2`
`print(P//Q/R)`
 - b. `print(1+2*3**4)`
 - c. `y= 5<<2`
`print(y)`

[5 Marks]
3. [CO-3] Write short notes on following taking suitable examples:
 - a. Lambda Functions
 - b. Nested Dictionaries
 - c. Scope of a Variable

[6 Marks]
4. (A) [CO-4] Differentiate between various modes used for opening a file in Python. Write sample program for each mode separately.

(B) [CO-4] Discuss the use & importance of else block in exception handling taking any suitable example.

[5 Marks]

5. [CO-2] Find output of the following Python Programs giving proper justification for your results:

[4 Marks]

```
def countbc(word):
    print(word)
    count=0
    for bc in word:
        if(bc=='bc'):
            count+=1
    return count
print("Number of 'bc'=", countbc("abcbabcaaa"))
```

```
def ep1(z):
    z=z+5
    def ep2(z):
        print('Python')
        return z
    return z
val=10
print(ep1(val))
```