

POSSESSION OF MOBILE IN EXAMINATION IS UFM PRACTICE

Na	me of Student	Enrolment No	
De	partment		
	BENNETT UNIVERSITY		
Supplementary Examination, January 2020			
CC	COURSE CODE: ECSE105L MAX. DURATION: TWO HOUR		
	COURSE NAME: Computational Thinking Using Programming OURSE CREDIT: 5 MAX. MARKS: 50		
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No			
•	All the questions are compulsory.		
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•	No separate answer sheet will be provided		
Qu	estion 1. Write short note on any three	3*2= 6 Mark	
a.	Difference between set and dictionary.		
		8*:	
b.	Break and Continue		
C.	Mutable and Immutable data types		
٨	Local and Global Variables in class		
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Question 2. Write a python program to print the numbers which are missing in between the range in the given list and also print those number which are outside the range. [9 marks]

Example: Input: Range [2:7] (Both numbers are inclusive.)

List [7,2,7,2,3,4,5,8,9]

Output1: 6 Missing from Range.

Output2: 8,9 Numbers in the list i.e. outside range.



Question 3. Find the output of the following peace of code. If you find error in code then point out which [3*2 = 6 Marks]

A.

```
with open('abc.txt', 'w+') as fp:
    fp.write("Hello this is final exam.\n")
    fp.write("Best wishes for next semester.")
    fp.seek(0)
    print(fp.read(5))
    fp.readline()
    print(fp.read(5))
    for x in fp:
        print(x)
```

В.

```
|st1=[3,4,5,6,7]
|st2=|st1
|st3=|st1[:]
|st2[2]=20
|print(|st1)
|print(|st2)
|print(|st3)
```

C.

```
dicti = {1: 'apple', 2: 'ball', 3: 'Hello'}
dicti[4]="1234"
print(dicti)
dicti = {1: 'apple', 2: 'ball', 3: 'ball', 3: 'abc'}
print(dicti)
```



Question 4. Define a recursive function to calculate the Binomial coefficient C(n,k). The formula is:

$$C(n, k) = C(n-1, k-1) + C(n-1, k)$$

$$C(n, 0) = C(n, n) = 1$$

For example, if input is C(5,2), output should be 10.

10 Marks





Question 5. Write a program to create class "Person" with name and age attributes and show method to show the details. Create three objects of this class and show their details.

10 Marks





Question 6. Write a program in Python to print prime numbers between 'n' and 'm' using function. Where 'n' and 'm' are given by user.

