	ADAMAS UNIVERSITY		
ADAMAS UNIVERSITY PURSUE EXCELLENCE	**END-SEMESTER EXAMINATION : MAY 2021** (Academic Session: 2020 – 21)		
Name of the Program: (Example: B. Sc./BBA/MA/B.Tech.)	BCA	**Semester:**	IV
Paper Title :	Scripting Language	**Paper Code:**	ECS32108
Maximum Marks :	40	**Time duration:**	3hrs
Total No of questions:	8	**Total No of Pages:**	02
(Any other information for the student may be mentioned here)	Please write the answers in a sequence. Example 1ˢᵗ complete one question then start the other question		

Answer all the Groups
Group A
Answer all the questions of the following $5 \times 1 = 5$

1.   **a)** What is the output of the following piece of code when executed in the python shell?

           A= {3, 4, 10}
           a.intersection_update ({20, 40, 50})
           print(a)

   b) What is the output of the following piece of code?
   A= {1:"A",2:"B",3:"C"}
   print(a.get(1,4))

   c) What is the output of the following piece of code?
   total={}
   def insert(items):
      if items in total:
         total[items] += 1
      else:
         total[items] = 1
   insert('Apple')
   insert('Ball')
   insert('Apple')
   print (len(total))

   d) How will you convert an integer to a character in python?

   e) What is the purpose pass statement in python?

GROUP –B
Answer *any three* of the following $3 \times 5 = 15$

2.   **(a).** How can you pick a random item from a list or tuple?
   (b). Demonstrate the types of function arguments in python.

                                                                        [2+3]

3.   **(a).** How will you set the starting value in generating random numbers?
   (b). How to split strings and what function is used to perform that operation?

                                                                        [2+3]

4. **(a)** Explain what is range () function and how it is used in lists?
(b) What is the meaning of indexing and negative indexing in Tuple? Show with example?

[3+2]

5. **(a).** Write a program to test whether the number is in the defined range or not?
(b). Write a Pythonic code that iteratively prompts the user for input. It should continue until the user enters "**done**" and then return the average value.

[2+3]

GROUP –C
Answer *any two* of the following $2 \times 10 = 20$

6. **(a)** How to implement call by value and call by reference in python show with example.
(b) Write a function called **is_palindrome** that takes a string argument and returns true if it is palindrome and False otherwise. Use built-in function to check the length of string. Prompt the user for input.

[4+6]

7. **(a)** "**Strings in python are Immutable**". Explain this statement with example.
(b). Write a python program to read the file and count and print the occurrence of each word in the file using dictionary. Prompt the user for the file name. Also use try/except to handle file names.
(c) Write a python program to display the numbers which are divisible by 5 from list using the concept of for with else.

[2+5+3]

8. **(a)** Define tuple. Write a Pythonic code to demonstrate tuples by sorting a list of words from longest to shortest using loops.
(b) What is the advantage of higher order function in python give example of it? Write a python code to find the prime number from the list using filter ().

[2+2+2+4]

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