Enrollment No.

## MID-TERM EXAMINATION (B.Tech. CSE-AI/AI &ML) 1"semester(January, 2023) OFFLINE mode

Subject Code: BAI-110 Subject: Programming With Python

Time: 1 ½Hours Maximum Marks: 30

## Q1 Attempt all Parts

(2.5\*4)

- (a) Write a Python program to count the number of even and odd numbers from a series of numbers.
- (b) Explain different types of datatypes in python.
- (c) Write a program to check if the word 'open' is present in the "This is open source software".
- (d) Explain with examples different types of list operators in python.

## Q2 (Attempt any Two Parts )

(5,5)

- (a) Explain various types of operators in python. Write a program to find the square of a number.
- (b) With the necessary examples describe the use of continue and break statement. Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.
- (C)Write a python program to print the following alphabet pattern:

ABCDEFEDCBA ABCDEDCBA ABCDCBA ABCBA ABA A

## Q3 (Attempt any Two Parts)

(5,5)

- (a) What is a local variable? How is it different from global variable? Write a python function to find the factorial of a non-negative number.
- (b) Write a Python program to print the even numbers from a given list. Sample List: [1, 2, 3, 4, 5, 6, 7, 8, 9]
  Expected Result: [2, 4, 6, 8]

(e) Write the python program the print the given series: 14,28,20,40,32,64,50,100

+6 +12 +18