

(Please write your Enrollment Number)

Enrollment No.

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

Subject Code: BAI-110

Subject: Programming With Python

Time : 1 ½ Hours

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
ABCD CBA
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]
- (c) Write the python program to print the given series : 14, 28, 20, 40, 32, 64, 50, 100

14 28 20 40 32 64 50 100