Format of Question paper-01

Name:		W UP	= 0	
Enrolment No:		<u> </u>	<u> </u>	
UPES				
End Semester Examination, May 2023				
Course: B.Tech. (BE)-II Semester: II				
6 1 6			Γime: 03 hrs.	
			Max. Marks:	100
Instructions: Attempt all questions. SECTION A				
(5Qx4M=20Marks)				
S. No.	(0)		Marks	CO
Q1	What is the output of the following code snippet.		4	CO1
	print $(20**1 + (5+6)**(0+1))$		4	COI
Q2	Comprehend basic logical operators used in Python.		4	CO2
Q3	Given the following snippet, find the output:		4	CO2
0.4	X= 0001 1101 when X>>2			
Q4	Differentiate between dictionary and list. Define the attributes of number 1) Ndim 2) Shape 3) Reshape 4) Size		4	CO3
Q5 Define the attributes of numpy: 1)Ndim 2)Shape 3) Reshape 4) Size SECTION B			4	CO4
(4Qx10M= 40 Marks)				
Q6	Write the runnable Python Program which must include the following: 1- Input from the user with proper syntax 2- While loop 3- Conditional statement(s)		g:	
			10	CO2
Q7	Define the following functions in Python	<u> </u>		
	1. enumerate()			
	2. range()		10	CO2
	3. filter()		10	CO3
	4. map()			
	5. reduce()			
Q8	Define types of arrays with example.		10	CO3
Q9	Comprehend global variable with examp		10	CO1
SECTION-C (2Qx20M=40 Marks)				
Q10 What is queue in Python? What are the basic operations performed on				
Q10	queue? Also write down the applications	1 1	20	CO3
Q11	Comprehend few common issues you encounter when working with		vith 30	CO4
,	large amounts of data?		20	CO4
	OR			
Q11	How is the data visualization performed	d in Python? Also, provide	the 20	CO4
	suitable example of data visualization.		20	CO4