II B. Tech I Semester Supplementary Examinations, September - 2021
PYTHON PROGRAMMING
(Com to CSE, IT)

Time: 3 hours   Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks
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1. a) Is indentation mandatory in Python? Give proper explanation with a suitable example code. (6M)
   b) Explain the following statements in python with a sample code (9M)
   i)break   ii)continue   iii)pass

Or

2. a) What is the output of the following python code snippet? (8M)
   ```
   x = (1 == True)
   y = (2 == False)
   z = (3 == True)
   a = True + 10
   b = False + 10

   print("x is", x)
   print("y is", y)
   print("z is", z)
   print("a:", a)
   print("b:", b)
   ```
   b) Write a Python program that prints all the numbers from 0 to 100 except odd numbers. (7M)

3. a) What are the different conditional control statements available in Python? Explain with suitable examples. (8M)
   b) Write a Python program to construct the following pattern (7M)
   ```
   *
   * *
   * * *
   * * * *
   * * * * *
   * * * *
   * * *
   * *
   *
   ```

Or

4. a) Explain with an example, how +, * and % operators work with strings (8M)
   b) Write a python program to encrypt and decrypt a string. (7M)

5. a) Differentiate Lists and Tuples in python with suitable program. (8M)
   b) Discuss about scope and lifetime of variables in python program. (7M)

Or

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6	a)	Write a Python function that prints all factors of a given number.	(8M)
	b)	What are the packages in Python? Explain the steps to create a package in python.	(7M)
7	a)	Explain the following functions in python i)seek ii)access	(8M)
	b)	How to write the output of a Python script to a file? Explain.	(7M)

Or

8	a)	Describe the python built-in class attributes and functions.	(8M)
	b)	Explain about multiple inheritance and multilevel inheritance in python with sample program code.	(7M)
9	a)	Describe the list of common exceptions that can be thrown from a standard Python program.	(8M)
	b)	How to pass an argument to an exception in python? Explain with a sample python code.	(7M)

Or

10	a)	Write a Python GUI program to create a Text widget using tkinter module. Insert a string at the beginning then insert a string into the current text. Delete the first and last character of the text	(8M)
	b)	Write a Python GUI program to create a Progress bar widget using tkinter module	(7M)

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