QP CODE: D1BCS2403

Name: .....
Reg.No.: .....

FIRST SEMESTER FYUGP EXAMINATION NOVEMBER 2024

MINOR

CSC1MN102 PYTHON PROGRAMMING

Time : 2 Hrs **Maximum Marks : 70**

BL : Bloom's Taxonomy Level (1 to 6) CO : Course Outcome

Section A — Ceiling Marks : 24

Answer all questions. Each carries 3 marks.

No.	Question	M	BL	CO
1.	What is a variable in Python? Give two examples	3	2	CO1
2.	Demonstrate how to declare and assign a value to a variable in Python with an example?	3	3	CO1
3.	Which is the multi-way conditional statement in python? Give its syntax.	3	2	CO1 CO4
4.	What are infinite loops. Give an example.	3	2	CO1 CO2
5.	Provide examples of for and while loops in Python	3	3	CO1 CO2 CO3
6.	Assess the advantages and disadvantages of using lists versus sets in Python.	3	5	CO1 CO4
7.	List three commonly used classes in the `datetime` module.	3	1	CO1 CO6
8.	Write a Python code that gets the current date and time using the `datetime` module.	3	3	CO6
9.	What is meant by recursion?	3	1	CO1
10.	Write a recursive function to find the factorial of a number.	3	6	CO5

Section B — Ceiling Marks : 36

Answer all questions. Each question carries 6 marks.

No.	Question	M	BL	CO
11.	Define identifier in python. List the rules for naming an identifier. Give two examples for valid and invalid identifiers.	6	2	CO1
12.	What is meant by type conversion? Explain with examples.	6	2	CO1 CO4
13.	Explain print function arguments in python. Illustrate the use of 'end' and 'sep' in print with suitable examples.	6	3	CO1 CO4
14.	Explain the loop control statements in python with syntax and examples.	6	2	CO1 CO2 CO3
15.	Briefly explain indexing and slicing of python tuples with suitable examples.	6	2	CO1 CO3
16.	Explain with examples the purpose of clear() and del in python sets	6	3	CO1 CO4
17.	Compare the `now()` and `today()` methods of the `datetime` class. What are the differences in their outputs?	6	4	CO6
18.	Create a function that takes a variable number of arguments and returns their sum. Demonstrate calling this function with three different sets of arguments.	6	6	CO3 CO5

Section C Answer any 1 question. Each carries 10 marks. (1x10=10 marks)				
No.	**Question**	**M**	**BL**	**CO**
19.	Discuss the decision-making structures available in Python with examples	10	3	CO1 CO2
20.	Demonstrate the working of append(),insert() and extend() methods of python lists.	10	6	CO1 CO3

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