

RAN-2411000902011001 / 2411000902010011
First Year Bachelor of Computer Applications (Sem. - II) Examination September - 2025
Major - 1 - 204 : Programming Skills
Time: 1 Hour]
[Total Marks: 25
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) All questions are compulsory.
- (3) Figure to the right indicate full marks.
- (4) Mention your options clearly.

Seat No.:

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Student's Signature

Q. 1. Answer any 5 multiple choice question
(05)

1. Which loop structure is commonly used to traverse all elements of a 2D array?
 - (a) Single for loop
 - (b) Nested for loops
 - (c) Single while loop
 - (d) do-while loop
2. Which of the following is not a difference between a structure and a union?
 - (a) In structure, memory allocated to each member separately whereas in union, memory allocated to the member with highest size.
 - (b) In structure, all members can be accessed at the same time, while in union only one member can be accessed at a time.
 - (c) Structures are faster than unions in memory access.
 - (d) Unions are used for memory optimization, while structures are not.
3. Which of the following statements is correct about Python code structure?
 - (a) Python uses braces {} to define code blocks.
 - (b) Python uses indentation to define code blocks.
 - (c) Python does not require indentation.
 - (d) Python uses end statements to terminate blocks.
4. What is the correct way to define a function in Python?
 - (a) function my_function():
 - (b) def my_function:
 - (c) define my_function():
 - (d) def my_function():
5. What will be the output of the following code?


```
str1 = "Hi"
print(str1 * 3)
```

 - (a) HiHiHi
 - (b) Hi 3
 - (c) Hi*3
 - (d) Error
6. What will be the output of the following code?


```
lst = [10, 20, 30, 40, 50]
print(lst[1:4])
```

 - (a) [10, 20, 30, 40]
 - (b) [20, 30, 40, 50]
 - (c) [20, 30, 40]
 - (d) [30, 40, 50]
7. In Python, which of the following operation is not allowed on a tuple?
 - (a) Accessing an element using an index
 - (b) Concatenating two tuples
 - (c) Deleting an element from a tuple
 - (d) Iterating through a tuple

- Q. 2. A.** Explain structure and union with example. (04)
OR
A. Explain different categories of User Defined Functions in C with example. (04)
B. Explain python data types in detail. (04)
OR
B. How to create user defined function in python and how to pass values to function. (04)
- Q. 3. A.** Explain python string and its methods with example. (04)
OR
A. Explain python arithmetic, identity and member operators with example. (04)
B. Explain for loop with break, range, and pass statement with example. (04)
OR
B. Explain LIST in python and its methods with example. (04)
- Q. 4.** Differentiate between set and tuple. Explain any two methods of set with example. (04)
OR
Explain NUMPY with its methods. (04)
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