R20

I B.TECH II SEMESTER REGULAR EXAMINATIONS, SEPTEMBER - 2021
PROBLEM SOLVING USING PYTHON
(Common to AID, CIC, CSE, CSM, CSO, ECE, EEE & INF)

Time : 3 Hours   **Max. Marks : 70**

Note : Answer **ONE** question from each unit **(5 ×14 = 70 Marks)**
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UNIT-I

1. a) What is interactive python shell? What is the significance of indentation in writing python programs? [7M]

   b) Explain in detail about the data types in python? [7M]

(OR)

2. a) Give short note on the following? [7M]
   (a) Single statement (b) Multiline statement (c) Python comments

   b) Write a Python program that reads four integers from user, prints them with a single print statement, without any space or newline between/after the values. [7M]

UNIT-II

3. a) Briefly discuss about conditional statements in python with examples. [7M]

   b) Write a Python program that prints multiplication table of a given number. [7M]

(OR)

4. a) Write a Python script to check the given string is Palindrome or not? [7M]

   b) Write a Python program that counts the number of occurrences of a letter in a String. [7M]

UNIT-III

5. a) Define list and explain any five list methods in python. [7M]

   b) Explain with an example how recursion is performed in python. [7M]

(OR)

6. a) Write a short note on Python Dictionaries? [7M]

   b) What is package in Python? Explain, how can you use package in your program with an example code? [7M]

UNIT-IV

7. a) Write a script illustrating multiple inheritance? [7M]

   b) Write a Python program to read last n lines of a file. [7M]

(OR)

8. a) What is operator overloading in Python? [7M]

   b) Explain different file modes? Write a python script to copy the contents from one file to another file. [7M]

UNIT-V

9. a) Explain briefly about exception handling mechanism in python with an example. [7M]

    b) Compare and contrast the Behavior of Terminal Based Programs and GUI - Based, Programs. [7M]

(OR)

10. a) Explain Python Built-in Exceptions. [7M]

    b) What are the three main concepts of Scratch programming? [7M]

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