I B. Tech II Semester Supplementary Examinations, January/February - 2023
PYTHON PROGRAMMING
(Common to CSE, IT, CSE-AI&ML,CSE-AI, CSE-DS, CSE-AI&DS, AI&DS)

Time: 3 hours   Max. Marks: 70

Answer any FIVE Questions ONE Question from Each Unit
All Questions Carry Equal Marks
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UNIT -I

1 a) Describe various phases of a program development cycle with a neat diagram.   [7M]
   b) Write a python code to demonstrate type conversions using int (), float () and str ().   [7M]

(OR)

2 a) Define comment and list out different types of comments with syntax.   [7M]
   b) Write Pythonic code to multiply two matrices using nested loops and print the result.   [7M]

UNIT -II

3 a) Discuss about the rstrip(), lstrip(),strip() methods that are used to remove spaces from a string.   [7M]
   b) What are the different flow control statements available in python? Explain with suitable examples.   [7M]

(OR)

4 a) Write Python Program to reverse a number and also find the Sum of digits in the reversed number. Prompt the user for input.   [7M]
   b) Explain the use of join() and split() string methods with examples.   [7M]

UNIT -III

5 a) Write a Python program using function to find out the given string is palindrome or not.   [7M]
   b) For a given list num=[45,22,14,65,97,72], write a python program to replace all the integers divisible by 3 with "ppp" and all integers divisible by 5 with "qqq" and replace all the integers divisible by both 3 and 5 with "pppqqq" and display the output.   [7M]

(OR)

6 a) Write a program to create a list with computer languages and display the same by using while loop.   [7M]
   b) How to rename a module in python and write the syntax and program.   [7M]

UNIT -IV

7 a) Write a Pythonic code to count and print the occurrence of each of the word in the file using dictionaries. Prompt the user for the filename.   [7M]
   b) What is a class? How to define class in python? How to initiate a class and how the class members are accessed?   [7M]

(OR)

8 a) Write Pythonic code to overload "+" and "-"operators by providing the methods __add__ and __sub__.   [7M]
   b) Describe the role of object oriented programming compared with the procedure oriented programming.   [7M]

UNIT -V

9 a) What s the difference between else block and finally block in exception handling? Explain with an example program.   [9M]
   b) What are the advantages and disadvantages of GUI based programs?   [5M]

(OR)

10 Write a Python program that creates a GUI with a textbox, Ok button and Quit button. On clicking Ok, the text entered in textbox is to be printed in Python shell; on clicking Quit, the program should terminate.   [14M]

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