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19. Write a Python Program to create a text file, write 3 lines, then read and display content.
20. Write a Python Program to count the number of words in a text file.

Total No. of Printed Pages—4

MJC45CSC102(P)25 (PR)

2nd Semester Exam., 2026 (May) (FYUP)

MAJOR-2 (COMPUTER SCIENCE)

[Python programming]

(Practical)

Full Marks : 100

Pass Marks : 40

Time : 3 hours

General Instructions :

1. Select 1 (one) question in each Unit.
2. Equal marks for each question and carry 12 marks (12×5=60) for system testing.
3. Theory (logic, algorithm, documentation) carry 5 marks (5×5=25).
4. Notebook records carry 5 marks.
5. Viva voce carry 10 marks.

UNIT—I

1. Write a Python Program to input two numbers from user and display their sum, difference, product, division.

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2. Write a Python Program to swap two numbers without using 3rd variable.
3. Write a Python Program to calculate the area of a circle. Input radius from user. Use $\pi = 3.14$.
4. Write a Python Program to check if entered number is even or odd.

UNIT—II

5. Write a Python Program to find the largest of three numbers using nested if.
6. Write a Python Program to print the multiplication table of a given number using for loop.
7. Write a Python Program to find the factorial of a number using while loop.
8. Write a Python Program to print the sum of digits of a number. Use while loop + break logic.

UNIT—III

9. Write a Python Program to input five numbers in a list and find max, min, sum, average.
10. Write a Python Program to remove duplicates from list using set.

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11. Write a Python Program to create a dictionary of five students with roll_no as key and name as value. Input from user and display.
12. Write a Python Program to check if a given string is palindrome using slicing.

UNIT—IV

13. Write a function add (a, b) that returns sum. Call function from main Python Program.
14. Write a Python Program by using recursive function to find the factorial of a number.
15. Write a Python Program by using math module to find the square root and power of a number.
16. Write a Python Program by using lambda function to find the square of a number.

UNIT—V

17. Write a Python Program to create class Student with attributes roll_no, name. Create object and display data.
18. Write a Python Program to demonstrate inheritance class Person and child class Student.

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(Turn Over)