2023/FYUG/ODD/SEM/ CASEC–101T/154

FYUG Odd Semester Exam., 2023
(Held in 2024)

COMPUTER APPLICATION

(1st Semester)

Course No. : CASEC–101T

(Programming with C)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer _fifteen_ questions, selecting any _three_ from each Unit : 1×15=15

UNIT—I

1. What do you mean by keyword?

2. What is conditional operator?

(_Turn Over_)

3. Write the general form of if-else statement.

4. What is the use of break statement?

Unit—II

5. What is meant by a function call?

6. What is function prototype?

7. Can a function be called from more than one place within a program?

8. What is recursion?

Unit—III

9. Define array.

10. How is a pointer variable declared?

11. Can a pointer be returned by a function?

12. How is an array name interpreted when it is passed to a function?

(Continued)

UNIT—IV

13. How does an array differ from a structure?

14. How is a structure member accessed?

15. What is a union?

16. How can structure variables be declared?

UNIT—V

17. What do you mean by library function?

18. What is macro?

19. Define header file.

20. What is the difference between % e and % f used in printf function?

SECTION—B

Answer *five* questions, selecting *one* from each Unit :   2×5=10

UNIT—I

21. What is the difference between i++ and ++i?

22. Write the general form and flowchart of for loop.

UNIT—II

23. What are the differences between formal argument and actual argument?

24. Write down the general form of function definition.

UNIT—III

25. What are the different ways that an array can be initialized?

26. What are the uses of pointer?

UNIT—IV

27. Write down the general form of defining a structure.

28. How is an array of structure initialized?

UNIT—V

29. What are register variables? How are they declared?

30. What do you mean by enumeration?

24J/593

(5)

SECTION—C

Answer *five* questions, selecting *one* from each
Unit : 5×5=25

UNIT—I

31. Explain the different data types available in C with example.

32. Write a C program to calculate simple interest.

UNIT—II

33. Explain in detail the concepts of function definition, function call and function expansion with the help of program segment.

34. Write a C program to find the factorial of a number using function.

✭ ✭ ✭

UNIT—III

35. What are 2-D arrays? How are they declared and initialized? Explain with suitable code segment.

36. Explain in detail the concept of passing functions to other functions.

(6)

UNIT—IV

37. *(a)* What is the purpose of the typedef feature? How is this feature used in conjunction with structure? 1+2=3

(b) How is structure-type pointer variable declared? Give example. 2

38. Write a C program to show the use of structure.

UNIT—V

39. Discuss the different types of bitwise operators with examples.

40. What do you mean by data file? Discuss the different types of operations related to data file.

★ ★ ★