BIM31 — PROGRAMMING IN C

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define a variable.

2. What is called an Associativity of operator?

3. List any FOUR control strings used in scanf() function.

4. What is known as looping?

5. Define a pointer.

6. Mention the use of putchar() function.

7. Give the general form of functions.

8. Define call by reference.

9. List any FOUR file operations.

10. Define union.

2624

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the structure of C programs.

Or

(b) Discuss the types of constants.

12. (a) Elucidate the general form of if-else statement with example.

Or

(b) Describe the usage of do statement.

13. (a) Give an account on one dimensional arrays.

Or

(b) Write a C program to sort the names in alphabetical order.

14. (a) Discuss about nesting of functions.

Or

(b) Write short notes on access modifiers.

15. (a) Elaborate the concept of structures within structures.

Or

(b) Discuss the various forms of fseek() function.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Expound the declaration of variables with example.

17. Illustrate the usage of switch statement in detail.

18. Explain the pointers with suitable example.

19. What is called Recursion? Write a C program to calculate factorial of a number using recursion.

20. Write an essay about dynamic memory allocation.