

Mid-West University
Examinations Management Office
Final Examinations -2081

Level: Bachelor /B.Sc./ Semester: IV

F.M: 60

Time: 3hrs.

P.M: 30

Subject: C Programming (CS347)

Candidates are required to give their answer in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

Short Answer Questions (Attempt ALL) [8 x 2 = 16]

1. List features of C programming language.
2. Differentiate between break and continue.
3. Explain the advantages of using functions.
4. What are the purpose of getchar() and putchar() functions?
5. Define a structure to represent a book in C.
6. What is a pointer? Write its use cases.
7. Draw the flowchart of while statement.
8. Write the syntax of variable declaration in C.

Group B

Short Answer Questions (Attempt ANY FOUR) [4x5=20]

9. Write an algorithm and draw flowchart to find factorial of a number.
10. Write a program to find area of triangle given the sides a, b and c.

Use the formula: $\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$ and $s = (a+b+c)/2$

11. Explain bit wise operators with example.

12. Write a program to find perimeter of a circle using user defined function.
13. Write a program to display all the records of a file employee.txt where each record has employee name, post, address and salary.

Group C

Long Answer Questions (Attempt ANY TWO) [2x12=24]

14. How can you use computer program to solve a problem? Explain the structure of C program in details with example.
15. What is an array? Explain types of arrays in C. Write a program to display sum of two matrices of user given order.
16. Write a program to find distance between two points in 2D plane. Represent each point in the plane with a structure having members x-coordinate and y-coordinate.

THE END