GLOBAL COLLEGE OF MANAGEMENT

Second Term Exam - 2070

Grade: XII Subject: Computer Science F.M.:75
Time: 3 hrs. P.M.:30

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

Group A

Attempt **all** questions: [4×10=40]

1. a. Define operator and operand. Explain assignment, ternary and comma operator. [2+3]
   b. What is nested loping? Write a program to print multiplication table of n terms. [2+3]
2. a. Write a program for writing records in a data file. [5]
   b. Write a recursive program to print Fibonacci series up to N^{th} term. [5]
3. Write a program that reads different names and address into computer and sorts the names into alphabetical order on the basis of name using structure variable. [10]
4. What is a pointer? Differentiate between processes: call by value and call by reference with examples. [2+8]

Group B

Attempt **all** questions: [7×5=35]

5. List the SDLC process and explain the importance of system analysis and system design phase. [1+4]
6. What is program design tool? Explain about decision table and decision tree with suitable examples. [1+4]
7. What is network topology? Distinguish between star topology and ring topology. [1+4]
8. Explain the seven layers of OSI Reference model. [5]
9. Define data integrity and data integrity constraints. Explain various types of integrity constraints. [1+4]
10. What is OOP? Explain the characteristic: polymorphism and inheritance. [1+4]
11. Write short notes. (Any Two) [2.5+2.5]
    - ERD
    - Protocol
    - DDL

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