



**Pre-Board Exam-2070**

Grade: XII  
Time: 3 Hrs.

Subjects: Computer Science

F.M.: 75  
P.M.: 30

**Set 'A'**

*Candidates are required to give their answer in their own words as far as practicable.*

**Group 'A'**  
**(Long Answer Questions)**

*Attempt any four questions:* [4×10=40]

1. What is nested loop? Write a program to display the multiplication table of nth terms. [2+8]
2. What is string? Describe any four "string handling functions" with examples. [2+8]
3. What is a pointer? Differentiate between processes: call by value and call by reference with examples. [2+8]
4. Differentiate between library function and user defined function. Write a program to sort 'n' elements in descending order using function. [2+8]
5. Write a c program that writes successive records to a new data file and display each record on the screen in an appropriate format. [10]

**Group 'B'**  
**(Short answer questions)**

*Attempt any seven questions:* [7×5=35]

6. What is feasibility study? Explain different levels of feasibility study. [1+4]
7. What is network database model? List out the advantages and disadvantages of network database modes. [1+4]
8. What is network topology? Explain advantages and disadvantages of star and mesh topology [1+4]
9. Explain the importance of DFD in system development. [5]
10. Explain guided transmission media with appropriate diagram. [5]
11. Define data integrity and data security. Explain the three types of data integrity constraints. [2+3]
12. What is object oriented programming? Explain. [5]
13. What is AI? Explain the application areas of AI. [1+4]
14. What are the components of multimedia? Explain. [5]
15. Write short notes on: [2.5+2.5]
  - a) E-learning
  - b) Data dictionary



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**Group 'A'**  
**(Long Answer Questions)**

*Attempt any four questions:* [4×10=40]

1. Define operator and expression. Describe different types of operators used in C. [2+8]
2. What is looping? Describe 'for', 'while' and 'do-while' loops with appropriate example. [1+9]
3. Write the advantages and disadvantages of array. Write a program to add two matrices by supplying elements of matrices by the user. [5+5]
4. What is nested structure? Differentiate between structure and union with suitable examples. [5+5]
5. Write a program which writes name, department and age of employees to a file named 'employee.dat' and display them on the monitor. [10]

**Group 'B'**  
**(Short answer questions)**

*Attempt any seven questions:* [7×5 = 35]

6. Explain different stages of system development life cycle with clean figure. [5]
7. Differentiate between centralized and distributed database systems. [5]
8. What is E-R diagram? Explain the advantage of E-R diagram in system design. [1+4]
9. Explain the relational database models with suitable examples. [5]
10. What is e-commerce? Discuss the impact of e-commerce in our society. [5]
11. What is OSI reference model? Explain the seven layers of OSI Reference model. [2+3]
12. Define cyber law and cyber crime. Explain various types of cyber crimes. [2+3]
13. Define OOP. Write the advantages and disadvantages of OOP. [5]
14. What is switching? Explain the three types of switching techniques used in networking. [1+4]
15. Write short notes on: [2.5+2.5]
  - a) Coaxial Cable
  - b) Communication Model