

QP Code: D 123089		Total Pages: 1	Name:
			Register No.
SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2025			
COMPUTER SCIENCE			
CSC2MN106 – FUNDAMENTALS OF THE SYSTEM SOFTWARE, NETWORKS AND DBMS			
2024 Admission onwards			
Maximum Time: 2 Hours		Maximum Marks: 70	
Section A			
All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)			
1	What is system software? Give two examples.		
2	Differentiate between system software and application software.		
3	What are the functions of an operating system?		
4	Define a compiler and explain its role.		
5	What are the goals of networking?		
6	Compare LAN, MAN, and WAN.		
7	What is the function of the transport layer in the OSI model?		
8	Define DBMS and mention two advantages.		
9	Differentiate between hierarchical and network data models.		
10	Write a SQL query to create a table called "Student".		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Explain the classification of programming languages.		
12	Describe different types of operating systems.		
13	Compare guided and unguided transmission media with examples.		
14	Explain the different layers of the OSI model.		
15	Discuss three-schema architecture in DBMS.		
16	Explain logical and physical data independence.		
17	What are constraints in SQL? Give examples.		
18	Differentiate between DDL and DML commands in SQL.		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Explain the structure of a Database Management System with a neat diagram.		
20	Discuss different types of network topologies with suitable diagrams.		