

QP Code: D141838		Total Pages: 1	Name:
			Register No.
SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2026			
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	Define system software and list its components.		
2	What are device drivers? Give examples.		
3	Explain the role of an operating system.		
4	What are the types of programming languages?		
5	Define network topology and list two types.		
6	What is fiber optic communication?		
7	Explain the purpose of the network layer in the OSI model.		
8	What is a relational data model? Give an example.		
9	What is the difference between logical and physical data independence?		
10	Write a SQL query to insert values into a table named "Employee".		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Explain the different types of system software.		
12	Discuss different types of operating systems with examples.		
13	Explain different types of computer networks with examples.		
14	Describe the five-layer internet model.		
15	Explain the advantages of using DBMS over a traditional file system.		
16	Compare the hierarchical, network, and relational data models.		
17	What are the different types of SQL operators? Explain with examples.		
18	What is the purpose of the ALTER command in SQL? Provide an example.		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Explain different types of database models in detail.		
20	Discuss the OSI model with the functionalities of each layer.		