

QP Code: D 122754		Total Pages: 1	Name:
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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 the difference between system software and application software?		
2	List the components of system software.		
3	Explain the term "language processor."		
4	Define computer network and its purpose.		
5	What is a coaxial cable? Where is it used?		
6	List the layers of the OSI model.		
7	What are the different types of database models		
8	Define external, conceptual, and internal schema in DBMS.		
9	What is an SQL function? Give an example.		
10	Write an SQL query to delete a record from a table.		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Explain different types of language processors.		
12	Discuss the advantages and disadvantages of an operating system.		
13	Explain different network topologies with diagrams.		
14	Compare the OSI and TCP/IP models.		
15	Describe the advantages and disadvantages of DBMS.		
16	Explain data independence and its types.		
17	What is a database constraint? Explain different types with examples.		
18	Discuss various SQL aggregate functions with examples.		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Explain the various types of computer networks with real-world examples.		
20	Write SQL queries to demonstrate the usage of CREATE, INSERT, UPDATE, DELETE, and DROP commands.		