





KATHMANDU UNIVERSITY  
End-Semester Examination  
May/June, 2022

Level : B.Pharm.  
Year : I  
Time : 2 hrs. 30 mins

Course : COMP 101  
Semester : I  
F.M. : 40

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SECTION "B"

[6 Q. × 4 = 24 marks]

Attempt *ANY SIX* questions.

1. Define system software. Explain the major characteristics of a good program.
2. Define Network. Differentiate between LAN, WAN and MAN with suitable examples.
3. Write down about RAM. Briefly explain different kinds of RAMs.
4. Write the difference between Algorithm and Flowchart with suitable examples.
5. What is DBMS? Explain the major functions of DBMS with suitable examples.
6. What are the five most important concerns for safety and security of a network and the computers? Explain with examples.
7. Write short notes on:
  - a. Big Data
  - b. IoT

SECTION "C"

[2 Q. × 8 = 16 marks]

Attempt *ANY TWO* questions.

8. How does CPU work? Explain in detail with suitable diagram.
9. Define SDLC. Explain different stages of SDLC with suitable diagram.
10. What is Network Topology? Explain different types of network topologies with suitable diagram.

