

Only for 2021  
to 2023 AD  
admitted  
Students

**TRIBHUVAN UNIVERSITY**  
**FACULTY OF MANAGEMENT**  
Office of the Dean  
**June 2026**

**Full Marks: 60**  
**Pass Marks: 30**  
**Time: 3 Hrs.**

**BIM / Fifth Semester / IT 242: Software Design and Development**

*Candidates are required to answer the questions in their own words as far as practicable*

**Group “A”**

**Brief Answer Questions:**

**[10×1=10]**

1. Mention a limitation of water fall model.
2. What is network diagram?
3. Define project management.
4. What does a process modeling represents?
5. Define relations.
6. What is the importance of documentation in system development?
7. Define report.
8. What is the concept of conceptual data modeling?
9. List any two importance of normalization.
10. Mention any two example of UML.

**Group “B”**

**Short Answer Questions:(Attempt any FIVE Questions)**

**[5×3=15]**

11. Explain spiral development model.
12. Explain Economic, Technical and Operational feasibility.
13. Why System maintenance is needed? Explain with some maintenance activities.
14. Differentiate between supertypes and subtypes.
15. Explain any three factors that should be consider while designing an interface.
16. Why Parallel Installation is considered as riskless installation? Explain.

**Group “C”**

**Long answer questions: (Attempt any THREE Questions)**

**[3×5=15]**

17. Explain about the steps in scheduling project plans.
18. What is Behavioral model? Explain any two types of behavioral model.
19. What is Software user friendliness? What factors must be considered to measure the Usability of Software? Explain.

20. Draw a level 1 DFD for ride sharing system. System allows passenger to search a ride, book a ride and cancel a ride.

**Group “D”**

***Comprehensive Answer / Case / Situation Analysis Questions:***

***[2×10=20]***

21. Draw a sequence diagram for appointment system for hospital assuming your own scenario.
22. Discuss the factors you should consider for effective design of interfaces and dialogues in graphical environment. Support your answer with example.

