📘 Possible Exam Questions – System Analysis & Design (Concepts)

Section A: Short Answer (2–5 marks)

1. Define **System Analysis** in the context of software development.
2. List **three basic constraints of a system**.
3. Differentiate between **system objectives** and **subsystem objectives**.
4. State **any four properties of a system**.
5. Identify **three elements of a system** using an e-commerce system as an example.
6. Mention any **two techniques used in system analysis**.
7. Explain the importance of **feasibility study** in system analysis.

Section B: Structured Questions (5–10 marks)

8. With relevant examples, explain the **key activities of system analysis**.
9. Using an example of an e-commerce system, describe how **process modeling** and **data modeling** are applied.
10. Differentiate between **requirement gathering** and **requirement analysis**, giving one example of each.
11. Discuss the role of **prototyping** in system analysis, highlighting one advantage and one disadvantage.
12. Explain the relationship between **System Analysis** and **SDLC**.

Section C: Essay / Long Questions (15–20 marks)

13. *"Objectives of the organization have higher priority than objectives of the subsystem."* Discuss this statement with examples.
14. Describe the **five key techniques of system analysis** (interviews, surveys, observation, document analysis, prototyping) with advantages and disadvantages.
15. Discuss the **properties and constraints of a system**, giving relevant examples from an e-commerce platform.
16. Using diagrams where necessary, explain how **system analysis helps in designing an effective system**.