



**Q. 4. Answer the following in detail. (Solve any 6) (30)**

1. Explain elements of the system.
2. What are the functions and application areas of transaction processing system ?
3. Explain four important aspects of system design.
4. Explain symbols used to draw DFD.
5. List out design principles which should be embedded in any user interface design.
6. Explain types of output.
7. Explain cardinalities / mapping constraints related to ERD.

**Q. 5. Answer the following in detail. (Solve any 1) (10)**

1. Explain
    - a. Multifaceted role of system analyst
    - b. Skills required by system analyst
  2. Explain characteristics of system.
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