

Chapter 1 :

- (1) what are the key tools used in data and process modelling , and how do they contribute To system development ?**
 - (2) what are the main symbols used in Data Flo Diagram (DFDs) , and what each symbol Represent ?**
 - (3) what steps are involved in creating a complete set of Data Flow diagrams (DFDs) for A system ?**
 - (4) what guidelines should be followed when drawing a Data Flow diagram (DFD), and how Is a DFD context diagram created ?**
 - (5) what is a DFD Diagram 0 , and how does it differ from a context diagram in terms of Detail ?**
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Chapter 2 :

- (1) What is Object-Oriented Analysis (OOA) , and why is it important in software Development ?**
 - (2) Define objects in the context of object-oriented modelling , How do they represent Real-world entities in software ?**
 - (3) what are attributes in object-oriented analysis , and how do they differ from methods ?**
 - (4) what are messages in object-oriented systems , and how do they enable communication Between objects ?**
 - (5) what are significance of classes in object modelling , and how are they used to group Objects with similar characteristics ?**
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Chapter 3 :

- (1) what role did information technology play in combating the COVID-19 pandemic ?**
- (2) what are the key components of information technology (IT) , and how have they Evolved over time ?**
- (3) what are the primary functions of system analyst , and how do they contribute to the Development process ?**

- (4) what are essential components of an information system , and how do they interact with Each other ?**
 - (5) How have business operations evolved in today's digital world , and what role do Information system plays ?**
 - (6) How do business profiles and business processes influence the development of Information system ?**
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Chapter 4 :

- (1) What is the importance of a mission and vision statement in the framework for Strategic system development ?**
 - (2) How does a SOWT analysis help in strategic system development , and what are it's Key component ?**
 - (3) What are the main components of a business case , and why is it critical for system Projects ?**
 - (4) what is the difference between discretionary and nondiscretionary projects ? and how Are priorities set for them ?**
 - (5) What are the main steps in risk management , and how can project risks be mitigated ?**
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Chapter 5 :

- (1) What are the key activities and objectives of the systems analysis phase in the system Development life cycle ?**
- (2) what skills are essential for a systems analyst to effectively perform their role ?**
- (3) How do team-based techniques like JAD , RAD and Agile methods enhance the systems Analysis processes ?**
- (4) what are the key roles and participants involved in joint application development (JAD) And how does user involvement impact the process ?**
- (5) what are the advantages and disadvantages of using JAD in systems developments ?**

(6) What are the main phases and objectives of Rapid Application Development (RAD) , and How does it differ from traditional development methods ?

Chapter 6 :

- (1) What are the role of fact-finding in enterprise requirements modelling , and how do Framework Like Zachman and TOGAF support this process ?**
- (2) what are the seven key steps to conducting a successful interview for fact-finding in Systems development ?**
- (3) Why is determining the right people to interview essential in the fact-finding process , And how does it affect the overall outcome of the interview ?**
- (4) What objectives should be established before conducting an interview for system Analysis ?**
- (5) How can structured fact-finding techniques such as document review , observations And questionnaires contribute to a gathering system requirements ?**