



Unit 1: Software Process and Principles

Q.1 Short answer question

[2*10=20M]

1. What are the Measures in software process?
2. Explain role of Metric in software process and project domain.
3. Short note on Analysis principle in software process
4. What is Software Quality Assurance (SQA)?
5. Short note on communication techniques.
6. Define Software prototyping.
7. What are the types of Indicators?
8. Define the term “Function Point”
9. Goals of Software Prototyping
10. What is the need of measures in software process?

Q.2 Long answer.

[4*10=40M]

1. Describe Metric for software Quality.
2. What is software prototyping? Explain in brief
3. Which communication techniques are used in Software Process?
4. Describe the role of Requirement Analysis in software process.
5. Explain Software Measurement in Software process.
6. Give the factors that affect software quality.
7. State advantages of SQA.
8. Different types of Indicators?
9. What is Metric? Describe Metric Indicator.
10. State disadvantages of SQA.



Unit 2: Distributed Database

Q.1 Short answer question

[2*10=20M]

1. Define Distributed Database.
2. Define concept of fragmentation.
3. Short notes on Nested Array.
4. Varying Arrays
5. Large objects.
6. Characteristics of DDBMS?
7. Homogeneous Distributed Database
8. Heterogeneous Distributed Database.
9. What is Data Replication?
10. Define Data Integration

Q.2 Long Answer Question

[4*10=40M]

1. Explain the term Object-Relational Model.
2. Describe Client Server Architecture in Distributed database.
3. Explain types of fragmentation in Distributed database.
4. state difference between standalone and Distributed Database.
- 5.State the Naming conventions of Objects.
6. need of Distributed Database Management system?
7. Explain the concept of Nested tables and its implementation in object relational database.
8. Define 'Distributed Database' and reasons for building distributed database.
9. Explain different types of Distributed database
- 10.Explain Abstract Data types.



Unit 3 : Data Warehouse

Q.1 Write short answer of following question.

[2*10=20M]

1. Write short note on Data ware house?
2. Define the terms.
 1. Data cleaning in Data warehouse.
 2. Data Mining.
 3. Fact Table in Multidimensional Data model
 4. OLAP Server architecture in Data Warehouse.
 5. Define the term Fragmentation.
 6. What is OLTP
 7. Define the term 'Noisy Data'.
 8. Advantages of Data Mining.
 9. Advantages of Data Cleaning.

Q.2 Write Answer in brief

[4*10=40M]

1. Describe the process of Data Mining.
2. Explain Data Reduction in Data warehouse.
3. Explain the Architecture of Data Warehouse.
4. What is Multidimensional Data Model in Data Warehouse?
5. Explain Data integration and Transformation in Data warehouse.
6. Explain the star schema for data warehouse.
7. Explain OLAP server Architecture in Data warehouse.
8. Explain Data Integration in detail.
9. Explain Data cleaning in detail.
10. Explain Data Replication in detail.



Unit 4: Network Security

Q.1 Write Short Answer.

[2*10=20M]

1. What is Cryptography?

2. Explain the following terms

1. Network Security
2. Cipher text
3. Digital Signature.
4. Properties of a good Message Digest.
5. Plain Text
6. Advantages of Network Security.
7. Explain the term one time pad.
8. Define Symmetric key Algorithm
9. Define Asymmetric key Algorithm

Q.2 Answer in Brief.

[4*10=40M]

1. What is Message Digest in Cryptography?
2. Explain terms –Public key algorithm, RSA.
3. Explain the different types of Cipher text in cryptography?
4. What is concept of symmetric key algorithm in cryptography?
5. Explain Symmetric key signature and Public key signature.
6. Explain Substitution Cipher in detail.
7. Explain Transposition Cipher in detail.
- 8 Explain Network Security in detail.
9. Explain different types of Cipher text in Cryptography
10. Explain Digital Certificate in detail



Unit 5: Computing and Informatics

Q.1 Write Short answer of following question.

[2*10=20M]

1. Give the advantages of cloud computing
2. Give the advantages and disadvantages of Mobile computing.
3. Define the term.
 1. Computing
 2. Informatics
 3. Green IT
 7. Define Expert system.
 4. Soft computing
 - 5 hard computing
 - 6.cloud computing
 8. Mobile computing

Q.2 Long Answer

[4*10=40M]

1. What does PaaS means? Explain its characteristics.
2. Explain: “Need of Mobile computing in today’s world”.
3. Difference between hard computing and soft computing.
4. What is IaaS? Explain architecture of Cloud computing.
5. How Cloud Computing Works? Explain architecture of cloud computing.
6. What are the different types of cloud computing?
7. State the application of soft computing.
8. Implementation of Green Computing.
9. Explain implementation of mobile computing in student learning process.
10. Explain in brief “ Expert system”.