Important questions for Quiz-1 Part-B:  
1.   
  
Explain the concept of Merkle Trees.  
  
  
2.   
  
Describe the structure and functionality of Patricia Trees. How do they differ from traditional binary search trees?  
3.   
  
Discuss the principles behind the Elliptic Curve Digital Signature Algorithm (ECDSA).  
  
  
4.   
  
Define Bitcoin and discuss its significance as a decentralized digital currency.  
  
  
5.   
  
Describe the life cycle of a Bitcoin transaction.  
6.   
  
Explain the structure of a Bitcoin transaction. What are the key components?  
7.   
  
Discuss the different types of Bitcoin transactions.  
  
  
8.   
  
Analyze the structure of a Bitcoin block.  
  
  
9.   
  
Describe the genesis block in the Bitcoin blockchain. Why is it significant and what historical and technical details are associated with it?