1. **a. Analyze the importance of healthcare data in improving patient care and healthcare management.**  
   **b. Discuss the different types of healthcare data and their respective roles in healthcare systems.**
2. **a. Explore various programs and organizations related to Health Informatics, highlighting the career opportunities available in this field.**  
   **b. Explain the fundamental principles of security and privacy in Health Informatics and how they are applied in practice.**
3. **a. Examine the challenges associated with the adoption and management of electronic health records (EHRs).**  
   **b. Compare and contrast electronic health records (EHRs) with electronic medical records (EMRs), highlighting their key differences.**
4. **a. Discuss the different types of medical coding systems used in healthcare, their purposes, and how they influence billing and reimbursement.**  
   **b. Analyze the importance of terminological standards in Health Informatics and how they enhance data accuracy and interoperability.**
5. **a. Discuss the key barriers to implementing Health Informatics systems in healthcare settings.**  
   **b. Explain the security principles involved in maintaining privacy and protecting sensitive data in Health Informatics.**
6. **a. Explore how Health Informatics modules are used in the insurance sector to streamline processes and improve efficiency.**  
   **b. Discuss the various career opportunities in the field of Health Informatics and the skills required for success.**
7. **a. Identify key organizations involved in Health Informatics and their contributions to the development of the field.**  
   **b. Examine the limitations of Health Informatics in gaining widespread public acceptance and usage.**
8. **a. Discuss how client/server management systems help ensure the privacy and security of health information in healthcare enterprises.**  
   **b. Identify the key Health Informatics resources that healthcare enterprises should implement to enhance operations and patient care.**
9. **a. Analyze the role of authentication and identity management in protecting healthcare data and ensuring secure access.**  
   **b. Design a database system for a hospital with 50 beds specializing in 4 specific diseases, considering the data requirements for efficient operation.**