

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - VI COMPUTER SCIENCE & BUSINESS SYSTEMS : SUMMER : 2024**  
**SUBJECT: INFORMATION SECURITY**

Day : Friday  
Date : 24/05/2024

S-24182-2024

Time : 02:30 PM-05:30 PM  
Max. Marks : 60

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

- Q.1 What are the principles of information security? Explain symmetric and asymmetric cryptosystems with suitable diagram. (10)
- OR
- Q.1 Explain different information security threats. (10)
- Q.2 Explain Trusted system and its importance in detail. (10)
- OR
- Q.2 Define Authentication and Authorization in detail. Elaborate on their distinct methods in detail. (10)
- Q.3 Describe different security standards in detail and illustrate SSL/TLS security certificate. (10)
- OR
- Q.3 Explain in detail Clarke Wilson Security Model. (10)
- Q.4 Elaborate web Threats in detail. (10)
- OR
- Q.4 What is Vulnerability assessment? (10)
- Q.5 Describe operating system security with detailed explanation. (10)
- OR
- Q.5 Describe incidence response and Forensics. (10)
- Q.6 Describe Audit tools: NESSUS and NMAP. (10)
- OR
- Q.6 Illustrate Business Continuity Planning and Disaster Recovery. (10)

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