

Question Bank (G scheme)

Name of subject: Information Security

Subject code: 17518

Semester: FIFTH

Unit Test : 1

Course : IF

CHAPTER 1:Introduction To Information Security (1 2M)

3 marks

1. Define terms disaster, crisis and catastrophe
- 2.Explain data obfuscation.
- 3.Explain three pillars of security.
- 4.Explain need of security in detail
- 5.Define term information, information system and information security

4marks

- 6.What is security. Explain three types of security.
- 7.Explain different levels used for classification of information
- 8.Explain different criteria used for classification of information

CHAPTER 2:Security architecture & model (24M)

3 marks

- 9.Explain following terms :
 - i) Risk Identification
 - ii) Risk Assessment
 - iii) Risk Control
- 10.Explain the concept of trusted computing base.
11. Explain the following terms:
 - i)Security policy
 - ii) Security guideline
 - iii) Security standard
12. Explain ring of trust model for standalone system.
13. Explain various protection mechanism in trusted computing base.
14. Explain the Biba model for integrity
15. Explain the Biba model for integrity.
16. Explain Clark-Wilson integrity model.

4 marks

17. Explain system security assurance
18. List different evaluation criteria.Explain any one in detail.
19. Explain ITSEC in detail.
20. Explain the concept of risk management with its components
21. Explain Bell and LaPadula Model for confidentiality

CHAPTER 3: Cryptography (12M)

3 Marks

- 22..Explain one time pad.
- 23.Explain classical encryption technique.
- 24.Define Cryptography,Cryptanalysis and cryptology.

4 marks

- 25.Explain playfair cipher technique with example.
- 26.Explain hill cipher with example.