



B.TECH DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2018)

Sixth Semester

INFORMATION TECHNOLOGY

U18ITT6001: Information Security

COURSE OUTCOMES

CO1: Describe threats to information security and security SDLC.

CO2: Identify the security threats and attacks.

CO3: Analyze the mechanism to assess and control risk.

CO4: Describe the types of security policies and standards.

CO5: Identify security issues related to personnel decisions, and qualifications of security personnel.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

(Answer not more than 40 words)

- | | | |
|--|-----|-------------------|
| 1. Compare vulnerability and exposure. | CO1 | [K ₂] |
| 2. List the components of an information system | CO1 | [K ₂] |
| 3. Distinguish between Denial-of-service attack and Distributed Denial-of-service attack. Which is more dangerous? | CO2 | [K ₂] |
| 4. Differentiate between laws and ethics | CO2 | [K ₂] |
| 5. Define Risk Management | CO3 | [K ₁] |
| 6. What is residual risk? | CO3 | [K ₁] |
| 7. State ISO 17799/BS 7799 Standards and their drawback | CO4 | [K ₁] |
| 8. Mention the importance of blueprint | CO4 | [K ₁] |
| 9. List the advantages and disadvantages of honey pot or padded cell approach | CO5 | [K ₁] |
| 10. How E-Mail systems are secured? | CO5 | [K ₂] |

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

- | | | |
|-----|---|-----------------------|
| 11. | Elaborate about the various phases of System Development Life Cycle (SDLC)? | CO1 [K ₂] |
| 12. | Discuss about the major types of attacks used against controlled systems | CO2 [K ₂] |
| 13. | Elaborate about Risk Control Strategies. | CO3 [K ₂] |
| 14. | With a neat sketch, Illustrate the design of security architecture. | CO4 [K ₃] |
| 15. | Explain scanning and analysis tools in detail | CO5 [K ₂] |
| 16. | Details about how Virtual Private Networks (VPNs) is used for protecting Remote connections | CO5 [K ₂] |

Please indicate knowledge level (K₁toK₆) and Course Outcome level (CO1 to CO5) against each question for each subdivision.