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Question Paper Code: 37204

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Seventh Semester

Computer Science and Engineering

01UCS704 - FUNDAMENTALS OF INFORMATION SECURITY

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. List the different security policies and types of access control.
2. What is Chinese wall model?
3. Explain how the avalanche effect is achieved in DES.
4. Define ECC.
5. What are the requirements for message authentication?
6. Distinguish between directed and arbitrated digital signature.
7. What is the difference between vulnerability and exposure?
8. What are computer viruses? What are the types of viruses?
9. List out the components of user policies.
10. What are the components of user's security policies?
11. What is a threat? List out the four broad classes of threats?
12. What is Chinese wall model?
13. What is public key certificate?

14. Define ECC.

15. What are the requirements for message authentication?

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. What is access control matrix? Explain about protection and state transition in access control. (10)
17. How AES is used for encryption/decryption? Explain with example. (10)
18. What are the properties of hashing function in cryptography. (10)
19. Explain about penetration analysis in detail with any two examples. (10)
20. Explain the use of cryptographic and network security techniques for an online shopping application. (10)