

Reg. No. :

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Question Paper Code: 95R12

Ph.D. COURSE WORK EXAMINATION, NOV 2019

Elective

Computer Science and Engineering

19PCS512– SECURITY IN COMPUTING

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (10 x 2 = 20 Marks)

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|-----|---|--------|-----|
| 1. | Discuss about salami attack. | CO1- U | (2) |
| 2. | Specify the components of encryption algorithm. | CO1- U | (2) |
| 3. | Define incomplete mediation. | CO2- U | (2) |
| 4. | Discuss the term traffic flow security. | CO2- U | (2) |
| 5. | Differentiate state and transition constraint. | CO3- U | (2) |
| 6. | List out security requirements of database systems. | CO3- U | (2) |
| 7. | Analyze about procedure oriented access control? | CO4- U | (2) |
| 8. | Analyze the characteristics of a trusted system. | CO4- U | (2) |
| 9. | What is intellectual property? | CO5- U | (2) |
| 10. | Define risk leverage. | CO5- U | (2) |

PART - B (5 x 16 = 80 Marks)

11. (a) Analyze the concepts of hacking and methodology of hacking. Also discuss about the classification of hackers. CO1- Ana (16)

Or

- (b) Brief out the encryption and decryption process of DES and depict the general structures. List out the strength and weakness of the same. CO1- Ana (16)

12. (a) Illustrate non malicious program errors with suitable examples. CO2- U (16)
Or
(b) What is firewall? Explain the types of firewall. CO2- U (16)
13. (a) Explain the concepts of security requirements of database systems in detail. CO3- U (16)
Or
(b) Explain in detail about direct and indirect attack of sensitive data. CO3- U (16)
14. (a) Explain in detail about the concepts of access control and types of access control. CO4- U (16)
Or
(b) Explain in detail about the security features of trusted operating system. CO4- U (16)
15. (a) Explain in detail about the ownership of products. CO5- U (16)
Or
(b) Describe about the various steps involved in risk analysis. CO5- U (16)