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Question Paper Code	12157
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B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

Sixth Semester

Computer Science and Business Systems
20CBPC602 - INFORMATION SECURITY
(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

- | | <i>Marks,
K-Level, CO</i> |
|--|-------------------------------|
| 1. What is availability? | <i>2,K1,CO1</i> |
| 2. Define Access control matrix model. | <i>2,K1,CO1</i> |
| 3. Define Bell-LaPadula Model. | <i>2,K1,CO2</i> |
| 4. What is Information Flow? | <i>2,K1,CO2</i> |
| 5. What are TSR viruses? | <i>2,K1,CO3</i> |
| 6. List the principles of intrusion detection. | <i>2,K1,CO3</i> |
| 7. List the components of user's policies. | <i>2,K1,CO4</i> |
| 8. Relate the analysis of trust in the system. | <i>2,K1,CO4</i> |
| 9. List the types of security services. | <i>2,K1,CO5</i> |
| 10. Recall the similarities between Linux and windows. | <i>2,K1,CO5</i> |

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

- | | |
|---|------------------|
| 11. a) Explain the life cycle of information security. | <i>13,K2,CO1</i> |
| OR | |
| b) Explain Risk Analysis with Laws and Customs in operational issues. | <i>13,K2,CO1</i> |
| 12. a) Discuss in detail about Fenton's Data Mark Machine in Execution-Based Mechanisms. | <i>13,K2,CO2</i> |
| OR | |
| b) Describe the requirements in Clark-Wilson model with comparison of each other and Compare with other models. | <i>13,K2,CO2</i> |
| 13. a) Infer the goals of penetration studies and Layering of tests. | <i>13,K2,CO3</i> |
| OR | |
| b) Explain Files and objects with users. | <i>13,K2,CO3</i> |

14. a) Explain the components of designing network for the Dribble Corporation with Outer firewall configuration. *13,K2,CO4*

OR

b) Illustrate the Requirements and policy in program security. *13,K3,CO4*

15. a) List the categories of security attacks. Elaborate with examples. *13,K2,CO5*

OR

b) List the key components to be taken care of in Database and System security. Explain. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Elaborate on the comparative study about policy and mechanism in the perception of security. *15,K2,CO1*

OR

b) With an example, explain about the specification and implementation of concepts in assurance. *15,K2,CO1*