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Reg. No.													

Question Paper Code	11844

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 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

		Marks, K-Level, CO
1.	Define Threats.	*2,K1,CO1*
2.	What are the goals of security?	*2,K1,CO1*
3.	List out the following rules control the way objects are labeled.	*2,K1,CO2*
4.	Relate the concepts of formal evaluation methodology.	*2,K2,CO2*
5.	Define autonomous agent.	*2,K1,CO3*
6.	Recall issuance policy.	*2,K1,CO3*
7.	What are access control file permissions?	*2,K1,CO4*
8.	Define indirect alias.	*2,K1,CO4*
9.	Define Database Security.	*2,K1,CO5*
10.	What are the two violations for threatening system security?	*2,K1,CO5*

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11.	a)	(i) Explain Laws and Customs.	*6,K2,CO1*
		(ii) Explain the process of Risk analysis.	*7,K2,CO1*
		OR	
	b)	Discuss about the role of Confidentiality and Availability in Information Security.	*13,K2,CO1*
12.	a)	Explain Certification Rule and Enforcement rule in Clark-Wilson model.	*13,K2,CO2*
		OR	
	b)	Outline the Life Cycle of Building Secure and Trusted Systems.	*13,K2,CO2*

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

13. a) Build an intrusion detection system which is also an automated auditing mechanism with architecture diagram. *13,K3,CO3*

OR

b) Illustrate the Naming and Certificates with example. *13,K3,CO3*

14. a) Classify threats with authorized and unauthorized users accessing role accounts. *13,K2,CO4*

OR

b) Explain policy development with the goals of Drib's Security policy. *13,K2,CO4*

15. a) Identify the analysis of security in linux / windows using admin access, automated functions, application security, flexibility and configurability. *13,K3,CO5*

OR

b) Explain the concepts of operating system security. *13,K[illegible]C5*

PART - C (1 × 15 = 15 Marks)

16. a) Explain Vulnerability classification with the goals of vulnerability analysis to develop methodologies. *15,K2,CO3*

OR

b) Extend the process of convert channels with example. *15,K2,CO2*