Total Marks: 100

COER University

END SEMESTER EXAMINATION, EVEN SEMESTER, 2023-24

Time : 3 hour

our Semester

: VI

Program Name: B.Tech
Course Code: SOC308

Branch/Specialization: Cyber Security

rse Code : SOC308 Course Name : Data Privacy

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the time.

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	co	BL
(a)	Compare discretionary access control (DAC) and mandatory access control (MAC) models.	CO 1	2
(b)	Summarize regulatory frameworks such as HIPAA and GDPR in the context of medical privacy.	CO 1	2
(c)	Explain the consequences for organizations failing to adhere to their stated privacy policies.	CO 1	2
(d)	Illustrate importance of privacy in the context of personal data.	CO 1	2
(e)	Explain the concept of data breaches and their impact on privacy.	CO 1	2
Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	СО	BI
(a)	Illustrate real-world applications where mathematical models have been used to assess data sharing practices and policies.	CO 2	2
(b)	Discuss the role of data lakes in handling the scale and diversity of modern data environments.	CO 2	2
(c)	Discuss key points behind the data explosion phenomenon.	CO 2	3
(d)	Discuss following approaches to modeling data sharing practices:- 1) Graph-based models 2) Bayesian networks.	CO 2	2
(e)	Summarize the implications of the lack of barriers in the collection of person- specific information for data privacy.	CO 2	2
Q. No 3	Attempt Any Four Parts. Each Question Carries 5 Marks.	СО	В
(a)	Discover null-map with wrong map protection models.	CO 3	3
(b)	Compare different types of data protection models commonly used in industry.	CO 3	2
(c)	Explain data anonymization, pseudonymization techniques used in privacy- enhancing models.	CO 3	2
(d)	Explain emerging trends and advancements in K-map research and development in data privacy.	CO 3	2
(e)	Summarize the challenges of protection models in dynamic and adversarial environments.	CO 3	2
O No 4	Attempt Any Two Parts, Each Question Carries 10 Marks		

Q. No 4	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Discuss in detail a real-world application where MinGen has been successfully implemented for data protection?	CO 4	2
(b)	How does Mu-Argus defend against adversarial attempts to re-identify individuals or infer sensitive information from anonymized datasets.	CO 4	4
(c)	Explain the factors considered in determining the level of protection required for different types of data.	CO 4	2
Q. No 5	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Correlate with facts that in an increasingly globalized healthcare landscape, how do medical privacy laws address cross-border data transfers and jurisdictional issues.	CO 5	4
(b)	Discuss the role and impact of GDPR and CCPA, on online privacy practices.	CO 5	4
(c)	Discover the legal standards and limitations surrounding emergency access to digital data.	CO 5	3

-----End of Paper-----