


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Program Name : M.Tech CSE		Semester : 1 st	
Course Name : Data Security		Time : 3 hrs	
Course Code : CSCS 7001		Max. Marks : 100	
Nos. of page(s) : 2			
Instructions: Read and follow the instructions written on the answer sheet front page			
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	How does a system get infected with Malware?	4	CO3
Q 2	Explain the various types of Bluetooth attacks.	4	CO2
Q 3	Discuss some of the biggest security risks that an organization can face.	4	CO1
Q 4	Discuss the best practices to be followed by an organization for ensuring data security and privacy.	4	CO5
Q 5	Mention the factors that motivates an attacker.	4	CO1
SECTION B (4Qx10M= 40 Marks)			
Q 6	Discuss the various types of Bank Frauds in detail. Also mention some ways of safeguarding yourself from such frauds.	10	CO3
Q 7	Discuss the following: a) Data Security Lifecycle b) Threat intelligence lifecycle	10	CO5
Q 8	Differentiate between IDS and IPS. Mention various advantages and disadvantages of honeypot.	10	CO4
Q 9	Define cryptographic attacks. Discuss any eight types of cryptographic attacks. OR Discuss the important database security threats and vulnerabilities along with their countermeasures.	10	CO2
SECTION-C (2Qx20M=40 Marks)			
Q 10	Explain the following in detail: a) Spoofing b) Impersonation	20	CO2

	<p>c) Message confidentiality threats d) Message integrity threats</p> <p style="text-align: center;">OR</p> <p>a) Website attacks b) DMZ c) Log management d) Phishing attack</p>		
Q 11	Describe the methodology and defense mechanism of a Rainbow attack. How does it differ from a Dictionary attack? Also discuss the various types of Brute force attacks.	[8+4+8]	CO3