Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

Course: B.Tech (CSE+CSF)

Program: Information Security Fundamentals

Semester: III

Time: 03 hrs.

Course Code: CSSF2001 Max. Marks: 100

Instructions:

	SECTION A		
S. No.	(5Qx4M=20Marks)		
S. No.		Marks	CO
Q 1	What does Information security protect?	4	CO1
Q 2	Define deming cycle?	4	CO1
Q 3	What does CIA stand for?	4	CO1
Q 4	Analyze Risk Mitigation?	4	CO1
Q 5	Define cost vs benefits analysis?	4	CO1
	SECTION B		I
	(4Qx10M=40 Marks)		
Q 6	Define types of Cryptography in detail.	10	CO2
Q 7	What are the objectives of cryptographic controls? Define in detail.	10	CO2
Q 8	Distinguish among authentication, non-repudiation, and access control through cryptography.	10	CO3
Q 9	Define application security and its techniques. OR Differentiate between symmetric algorithms and symmetric types of algorithms.	10	СОЗ
	SECTION-C (2Qx20M=40 Marks)		
Q 10	Define operating system and its type. Construct protection against types of malwares to operating system.	20	CO4
Q 11	What is Web application and Mobile application Security? Identify Vulnerabilities in Web application systems and present the Security techniques.	20	CO4

Or		
Justify GRC, GRC pillars, value of GRC to business, benefits of GRC, tools for GRC, and its implementation in real world.	20	CO5