



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2023

Course: Data and Network Security

Program: BCA

Course Code: CSSF2011

Semester: IV

Time : 03 hrs.

Max. Marks: 100

Instructions:

**SECTION A
(5Qx4M=20Marks)**

S. No.		Marks	CO
Q 1	Elaborate on Identity and Access Management (IAM) offering in cloud security.	4	CO3
Q 2	List the steps for Disk Encryption: Implementing Built-in Disk Encryption for Windows.	4	CO2
Q 3	Explain Internet Control Message Protocol (ICMP).	4	CO2
Q 4	Elaborate on the working of Web Server Components - Web Proxy.	4	CO1
Q 5	List Advantages/Disadvantages of RAID Systems.	4	CO2

**SECTION B
(4Qx10M= 40 Marks)**

Q 6	What is Reconnaissance or information gathering? How Perform Passive reconnaissance through archive.org.	10	CO1
Q 7	Elaborate the Impact of Social Engineering Attack on an Organization	10	CO2
Q 8	List Common Goals behind Web Server Hacking. Elaborate the concept of DNS Server Hijacking. Design DoS/DDoS Attack using SYN Flood Attack Techniques .	10	CO1
Q 9	List different SQLI Exploitation Techniques. Perform SQL injection using SQLmap tool in kali Linux Or Design step to find out vulnerability through Damn Vulnerable Web Application (DVWA) in MySQL web application.	10	CO2

SECTION-C (2Qx20M=40 Marks)			
Q 10	<p>Design a framework for Best Practices for Securing the Cloud. Explain working of Qualys Cloud Platform cloud security tool.</p> <p>Or</p> <p>Elaborate on types of damage that attackers can cause to a web server. Design the steps of DNS Server Hijacking.</p>	20	CO3
Q 11	Why we should use NMAP. Elaborates its features. List different scan techniques available in NMAP.	20	CO2