

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, Dec 2022

Program Name : B. Tech

Course Name : IT Network Security

Course Code : CSSF 3013

Nos. of page(s) : 01

Semester : V

Time : 3 hr

Max. Marks : 100

Instructions: Write in BLUE and draw a neat diagram wherever necessary.

SECTION A

S. No.		Marks	CO
Q 1	Distinguish between Risk, threat and vulnerability with example.	4	CO4
Q 2	Explain the Secured Socket Layer (SSL) and Transport Layer Security (TSL) in brief.	4	CO1
Q 3	What are the goals of conducting a pentesting exercise?	4	CO5
Q 4	Explain How Data is Protected During and after Penetration Testing?	4	CO5
Q 5	Explain the DDOS attack in brief.	4	CO1

SECTION B

Q 6	Explain How Risk Analysis and Penetration Testing Are Different from Each Other?	10	CO5
Q 7	Explain the digital signature and how it used for authentication? Explain by giving specific application.	10	CO1
Q 8	What steps can an organization take to increase its physical security? Are there aspects of physical security in your organization that need improvement?	10	CO2
Q 9	What is BYOD Security? How can BYOD security be improved? OR What is a DMZ and why would we use it?	10	CO2

SECTION-C

Q 10	Explain the following attacks along with their mitigation:- a. DNS Cache Poisoning b. ARP Spoofing	20	CO4
Q 11	What are the benefits or disadvantages of VPNs? Briefly mention the ways in which VPNs can be implemented. 2. What is IPSec? Briefly describe the operation modes of IPSec.	20	CO3