Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, Dec 2022

Program Name: M. Tech (CSE)

:

Semester : 1st

Course Name : Cyber Security and Ethics

Time : 3 hr Max. Marks: 100

Course Code : CSCS 7002 Nos. of page(s) : 01 Instructions

SECTION A

Q. No.	Questions	Marks	CO
1	Why do we need to worry about information security?	4	CO2
2	How can we responsibly and safely store and transmit sensitive information?	4	CO1
3	Do our documented policies match what is actually happening in practice? If yes, then explain it with proper justification.	4	CO2
4	How can we promote a culture of moral growth and maturity in security research and testing?	4	CO1
5	What are Intellectual Property Laws in India?	4	CO3
	SECTION B		
6	Describes the information security governance and risk management.	10	CO2
7	Can we detect an attempted or successful cybersecurity incident, brute force attack, or data breach? If yes, then how we detect it.	10	CO1
8	What are risks in implementing the RSA algorithm without padding? OR	10	CO3
9	Describe security architecture and design. Define:		
9	I. Threat II. DoS Attack III. Malware IV. Macro Virus V. Spoofing	10	CO1
	SECTION-C		
10	Dexter wants to set up his own public and private keys. He chooses $p = 23$ and $q = 19$ with $e = 283$. Find d so that ed has a remainder of 1 when divided by $(p - 1)(q - 1)$.	20	CO2
11	Explain the security issues with hardware, storage device and downloadable devices. OR Explain the intellectual property in cyberspace.	20	CO3