

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, Jan 2022

Course: M. Tech. CSE

Subject: Cyber Security and Ethics

Subject Code: CSCS7002P

Semester: 1

Time: 03 hrs.

Max. Marks: 100

Instructions: The marks for each question are given before.

SECTION A

S. No.		Marks	CO
Q 1	Describe the term Threat, Vulnerability, Attack and Control related to computer security.	4	CO1
Q 2	Discuss the phases of virus operations. List some types of viruses.	4	CO2
Q 3	Deliberate the 5 areas of information assurance?	4	CO1
Q 4	Differentiate between security architecture and security design?	4	CO4
Q5	Deliberate intrusion detection system? Discuss its various types	4	CO3

SECTION B

Q 6	Describe the term Interception, Interruption, Modification and Fabrication related to threats. List five security possible threats.	10	CO1
Q 7	Engrave the steps of policy review process. Label roles and responsibility of security policies.	10	CO4
Q 8	Differentiate between symmetric and asymmetric cipher. Encrypt the plaintext using this Play fair cipher having key "Sunil" and message is: "cryptography is a secret writing".	10	CO2
Q 9	Express digital signature in cyber security? What is difference between Direct and Arbitrated digital signatures?	10	CO1

OR

	Discuss SSL protocol architecture. How does SET work? Describe dual signature of SET and its purpose.	10	CO1
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SECTION C

Q 10	Discuss the professional ethics in cyber security? Why is ethics important in information technology? Explain with example	20	CO2
Q 11	Discuss the role of information security governance and risk management in cyber security? State the tools and techniques for developing secure information system.	10 10	CO3
Or			
	Discuss the role of www policies in cyber security? List different types of security policies with real time example.	20	CO3