Name:

**Enrolment No:** 



UNIVERSITY WITH A PURPOSE

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, May 2021

Comme Enu Semester Examination, May

Course: Cryptography and Network Security Program: B. Tech. CSE-LLB-SPZ-CL/IPR Course Code: CSEG 4001 Semester: VI Time 03 hrs. Max. Marks: 100

SECTION A 1. Each Question will carry 5 Marks			
<ol> <li>Instruction: Complete the statement / Select the correct answer(s)</li> </ol>			
S. No.	Question	CO	
Q 1	Which of the following is not a block cipher technique?A. AESB. DESC. Caesar cipherD. None of these	CO1	
Q2	is a form of cryptosystem in which encryption and decryption are performed using the same key.	CO2	
Q3	A cryptanalyst is person who make cipher stronger. (True/False).	CO3	
Q4	<ul> <li>Vigenere cipher is an example of:</li> <li>A. Polyalphabetic cipher</li> <li>B. Caesar cipher</li> <li>C. Mono alphabetic cipher</li> <li>D. Transpositional</li> </ul>	CO2	
Q5	Masquerade attack is another name of a. Virus attack b. DOS attack c. Spoofing d. Trojan Horse	C01	
Q6	How does the encryption process actually take place?	C03	
	SECTION B Each question will carry 10 marks Instruction: Write short / brief notes	I	
Q 7	What are the key differences between asymmetric and symmetric cryptography?	CO1	
Q 8	What are the specific components of the Public Key Infrastructure (PKI)?	CO4	
Q 9	What are the security vulnerabilities of hashing functions?	CO2	

Q 10	Why having an intrusion detection system is essential for network security.	CO3		
Q 11	Explain in brief about block cipher? What is cipher block chaining and how does it work?	~~~		
	OR	CO2		
	Discuss the kinds of threats exist for a cryptographic system?			
Section C 1. Each Question carries 20 Marks.				
2. Instruction: Write long answer.				
Q12	What are the requirements for digital signature? Briefly explain direct digital signature and arbitrated digital signatures.			
	OR			
	Write the digital signature algorithm. Also explain the signing and verifying functions of digital signature algorithm.	CO4		