N	ame:	

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2021

Course: Information Technology Infrastructure Landscape Overview Program: B. Tech. (CS+CSF) Semester: V Time 03 hrs.

Course Code: CSIT1003 Max. Marks: 100

Instructions: Attempt all questions.

SECTION A

Each Question will carry 5 Marks

S. No.		Marks	CO
Q 1	Pick the correct answer:		
	i) Masquerade is an example of:		
	a) Active attack b) Passive attack c) Serious attack d) None	2 + 2	CO1
	ii) Which of the following storage device is directly accessible by the CPU?		
	a) Hard Disk Drive b) Optical Disks c) RAM d) Flash Drives		
Q 2	Fill in the blanks:		
	i) Entries are stored in tree like structure called as	2 + 2	CO2
	ii) Full form of OLAP is		002
Q 3	Explain 4 Aggregate operators of SQL with the help of SQL query.	4	CO3
Q 4	Pick the correct answer:		
	i) When any message is encrypted using the sender's private key for achieving the		
	l authanticity, it is called		
	authenticity, it is called a) Digital Certificate b) Digital Signature c) Hashing d) None	2 + 2	CO1
	authenticity, it is called a) Digital Certificate b) Digital Signature c) Hashing d) None	2 + 2	CO1
	a) Digital Certificate b) Digital Signature c) Hashing d) None ii)is the standard unit of measure of height of rack for rack servers.	2 + 2	CO1
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Q 5	a) Digital Certificate b) Digital Signature c) Hashing d) None ii)is the standard unit of measure of height of rack for rack servers.	2 + 2	CO1
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Q 5	a) Digital Certificate b) Digital Signature c) Hashing d) None ii) is the standard unit of measure of height of rack for rack servers. a) X b) U c) H d) None of these Fill in the blanks: i) Full form of LDIF is	2+2	CO1
Q 5	a) Digital Certificate b) Digital Signature c) Hashing d) None ii) is the standard unit of measure of height of rack for rack servers. a) X b) U c) H d) None of these Fill in the blanks:	2+2	

	SECTION B		
Each (Question will carry 10 Marks		
Q 6	Define the process of a switch learning switch table? Explain the different functions performed at layer 2 switch.	5 + 5	CO1
Q 7	Explain different types of cryptography with the help of example. Discuss at least one algorithm under each type of cryptography.		CO2
Q 8	Discuss the need of disk scheduling with the help of example. Explain the internal structure of Hard Disk Drive also.	5 + 5	CO2
Q 9	Q) Explain the following LDAP models: (2.5*4= 10 marks) a) Information model b) Naming model c) Functional model d) Security model	10	CO3
	SECTION-C		
Each (Question carry 20 Marks		
Q 10	Explain the following terms: (5*4=20 marks) a) OLTP & OLAP b) Blade server & Rack server c) Data Mining & Data Warehousing d) Multitasking & Multiprogramming.	20	CO4
Q 11	State the uses Hypervisor in virtual environment. Explain different types of Hypervisors with their limitations. Explain with the help of proper diagrams.	6+8+6	CO5