

Name:

Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**Supplementary Examination, December 2023**

**Course: IT Infrastructure Landscape**

**Semester: V**

**Program: B.Tech. (CSE) with Spl. CSF**

**Course Code: CSIT3016P**

**Time: 03 hrs.**

**Max. Marks: 100**

**SECTION A**  
**(5Qx4M=20Marks)**

S. No.		Marks	CO
Q. 1	Illustrate the benefits of standards-based online directories.	4M	CO1
Q. 2	Illustrate the use of SAN with suitable example.	4M	CO2
Q. 3	Compare Dynamic vs. Static VLANs with suitable example.	4M	CO3
Q. 4	Describe 2 different DCL and DDL commands for each category with suitable SQL query.	4M	CO4
Q. 5	Explain the use of OLAP with suitable example.	4M	CO5

**SECTION B**  
**(4Qx10M= 40 Marks)**

Q.6	Illustrate the use of different types of hypervisors in virtualization.	10M	CO1
Q.7	Exemplify the use of different RAIDs in industry with suitable example.	10M	CO2
Q.8	Compare private key encryption and public key encryption with suitable example.  (OR) Differentiate between Symmetric key Cryptography and Asymmetric key Cryptography with suitable example.	10M	CO3
Q.9	Write short note on following: i. Composite Primary key ii. Referential Integrity Constraint iii. Compare Multivalued and composite attributes. iv. Compare Primary key and Unique key	10M	CO4

**SECTION-C**  
**(2Qx20M=40 Marks)**

Q. 10	i. Describe different kind of VLAN with their advantages and disadvantages. ii. Configuration and Patch management required for security of server, Comment.	10M 10M	CO3
Q.11	i. Explain five advantages and five disadvantages of using DBMS. ii. Compare OLAP and OLTP with suitable example.	10M 10M	CO4