

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, December 2020

Course: IT Infrastructure Landscape Overview
Program: B.Tech. CSE spl. in CSF
Course Code: CSIT 1003P

Semester: V
Time: 3 hrs.
Max. Marks: 100

SECTION A (30 marks)

1. Each Question will carry 5 marks.
2. Instruction: Complete the Statement/Select the correct answer(s)

S.No.	Question	CO
Q1	<p>Given type of Table joins: (i) <i>Equi-Join</i>, (ii) <i>Natural Join</i>, (iii) <i>Cross Join</i>, (iv) <i>Left outer join</i> The following queries are example of which of the given type of Table joins</p> <p>(a) Select * from student, enrollment (b) Select * from student, enrollment where student.enrollment_no = enrollment_no Or Select * from student INNER JOIN enrollment ON student.enrollment_no = enrollment.enrollment_no</p>	CO1
Q2	<p>(a) ____ is used by Network Load Balancing which supports limiting switch flooding. (i) <i>DHCP</i>, (ii) <i>IGMP</i>, (iii) <i>FCP</i>, (iv) <i>DVRMP</i>, (v) <i>POP3</i></p> <p>(b) Manual Server Deployment is a process in which the boot sequence of all the system needs to be manually changed to ____ for all the new hardware which is received to install the OS. (i) <i>MRE</i>, (ii) <i>CP/CMS</i>, (iii) <i>PXE</i>, (iv) <i>RSAT</i></p>	CO2
Q3	<p>(a) _____ model in LDAP deals with what can be done with the information, how can it be updated and accessed. (i) <i>Information</i>, (ii) <i>Naming</i>, (iii) <i>Functional</i>, (iv) <i>Security</i></p> <p>(b) _____ defines the type of objects to be stored. (i) <i>entry and value</i>, (ii) <i>attribute</i>, (iii) <i>RDN</i>, (iv) <i>Schema</i>, (v) <i>Base64 encoding</i></p>	CO3
Q4	<p>(a) _____ is used to avoid network loops and maintaining redundancy. (i) <i>3Com</i>, (ii) <i>Juniper</i>, (iii) <i>VLAN</i>, (iv) <i>OSPF</i>, (v) <i>STP</i></p> <p>(b) _____ is a process which facilitates the management of the electronic identities of a business for any kind of access. (i) <i>Message digest</i>, (ii) <i>Digital Signature</i>, (iii) <i>IAM</i>, (iv) <i>String user Authentication</i></p>	CO4
Q5	<p>(a) _____ enables communication between queue managers. (i) <i>Local queues</i>, (ii) <i>Alias queues</i>, (iii) <i>Channels</i>, (iv) <i>Dynamic queues</i></p> <p>(b) _____ provides the runtime for enterprise application and provides dynamic pages. (i) <i>Web server</i>, (ii) <i>Application server</i>, (iii) <i>File server</i>, (iv) <i>Cluster</i></p>	CO5

Q6	<p>(a) _____ is a collection of related data items, consisting of measures and context data. <i>(i) Dimension, (ii) Attribute, (iii) Fact, (iv) Data Mart</i></p> <p>(b) _____ is used to access a server using SSL authentication. <i>(i) Notes Certificate, (ii) X.500 certificate, (iii) X.509 certificate, (iv) Service ticket</i></p>	CO5
<p>SECTION B (50 marks)</p> <p>1. Each Question will carry 10 marks. 2. Instruction: Write short/brief notes.</p>		
Q7	<p>(a) JDBC Architecture and common JDBC components. (b) Failure Management with DB2 cluster services.</p>	CO1
Q8	<p>(a) Storage Virtualization (b) Features and System tasks performed by the OS</p>	CO2
Q9	Secure Messaging	CO4
Q10	Network Security Components	CO4
Q11	<p>(a) Data Warehousing and Data Marts (OR) (b) Visualization of Dimensional Model and OLAP Operations with suitable example.</p>	CO5
<p>SECTION-C (20 marks)</p> <p>1. Each Question will carry 20 marks. 2. Instruction: Write long answer. Internal choice available.</p>		
Q12	<p>(a) LDAP protocol. (OR) (b) LDAP replication topologies and LDIF.</p>	CO3