UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, April/May 2018

Course: Introduction to It Infrastructure Landscape   **Semester: II**
Program: B. Tech (CCVT) (CSIT1001)
Time: 03 hrs.   **Max. Marks: 100**

Instructions: All the questions are compulsory.

SECTION A
Attempt all the question

S. No.		Marks	CO
Q 1	Discuss the Role of API and their types.	5	CO1
Q2	Explain the Server deployment and the steps to deploy it.	5	CO2
Q3	Explain partitioning, isolation, encapsulation and hardware independence.	5	CO1
Q4	Explain the role of Information technology by giving an example of wireless internet.	5	CO2

SECTION B
Attempt all question

Q5	Explain RAID and concept of mirroring, stripping and parity checking.	10	CO3
Q6	Explain the concept of LDAP and draw the architecture of LDAP.	10	CO3
Q7	Explain the disadvantages of star, tree and mesh topologies	10	CO2
Q8	Explain the public key encryption with diagram	10	CO2

SECTION-C
Attempt all question

Q 9	Explain Patch Management and Virtualization Security.	20	CO4
Q10	What is IBM WebSphere MQ and Explain the messaging technique with the proper diagram.	20	CO4

Name:

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SECTION A
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S. No.		Marks	CO
Q 1	Define virtualization and draw the architecture of container and hypervisor.	5	CO1
Q2	Define Hypervisor and architectural representation of both types.	5	CO2
Q3	Explain data mart and what is the difference between data warehousing and data mining.	5	CO1
Q4	Explain the role of information technology by giving an example of cellular technology.	5	CO2

SECTION B
Attempt all question

Q5	Explain the difference between, Raid 0, Raid 1 and Raid 5	10	CO3
Q6	Explain LDAP replication technologies and discuss their types.	10	CO2
Q7	Explain the Router, Switch, Hub, Bridge and show the architecture differences of all in one diagram.	10	CO3
Q8	Explain the private key encryption with diagram.	10	CO2

SECTION-C
Attempt all question

Q 9	Explain firewall and detail out the different firewall types which are available.	20	CO4
Q10	Define a) I/O virtualization b) Server Management Console	20	CO4