

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: IT System Security and Physical Security

Program: B. Tech (CSE + CSF)

Course Code: CSSF 1001

Semester: II

Time 03 hrs.

Max. Marks: 100

Instructions:

SECTION A

S. No.	Question	Marks	CO
Q 1	Mention three technical controls for identifying and authorizing an authorized user and give at least two examples for each technical control?	4	CO1
Q 2	What is Endpoint Security?	4	CO5
Q 3	Mention the types of Security Personnel for Physical Security.	4	CO4
Q 4	What are the four objectives of Physical Security Audit?	4	CO5
Q 5	Mention the four Security services provided by Oracle Server.	4	CO3

SECTION B

Q 6	Discuss the five security areas covered by Endpoint Security solutions.	10	CO2
Q 7	What are the port ranges for System Ports and Registered Ports? What are the port numbers for FTP, HTTP, HTTPS, SMTP, DNS, Secure Shell, Telnet and NTP?	10	CO3
Q 8	Explain with at least five examples, five threats faced by Windows Server Operating Systems.	10	CO2
Q 9	What do you understand by Hazard Identification? Mention at least five Threats with examples. <p style="text-align: center;">OR</p> Mention the nine points of security concern for an Auditor.	10	CO2

SECTION-C

Q 10	Illustrate with examples the difference between outer and inner layers of Physical Security and IT Security.	20	CO5
Q 11	Explain the Garter's Magic Quadrant for Endpoint Security. Discuss and compare the strength and weakness of three Endpoint Security vendors? OR Explain in details, the four phases of Security in System Lifecycle.	20	CO2

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SECTION A

S. No.		Marks	CO
Q 1	What is the difference between SSL, TLS and HTTPS?	4	CO1
Q 2	What do you understand by CIA Triad?	4	CO5
Q 3	Mention the three types of Alarm systems for Physical Security.	4	CO4
Q 4	Name the four layers of Physical Security.	4	CO5
Q 5	What are the three major components needed for Fire?	4	CO3

SECTION B

Q 6	Explain with at least five examples, major threats faced by Mobiles Operating Systems.	10	CO2
Q 7	Discuss the drivers that influence the business need for Endpoint Security.	10	CO3
Q 8	Mention with examples, the various Internal and External IT Threats.	10	CO2
Q 9	Why is it difficult to secure an Operating System? What are the three major tasks performed by Operating Systems? OR Mention at least nine Security Threats with at least one example for each threat.	10	CO2

SECTION-C

Q 10	Explain how you would implement Confidentiality, Integrity and Availability.	20	CO5
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Q 11	Mention at least five Database Server Security Threats and what do they lead to? OR What do you understand by Physical Security? Illustrate at least four types of Physical Security Threats with at least three examples for each.	20	CO2
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