

Name:	 UPES UNIVERSITY WITH A PURPOSE
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2019

Course: Information Security Fundamentals
Program: B. Tech (CSE + CSF)
Course Code: CSSF 2001

Semester: I
Time 03 hrs.
Max. Marks: 100

Instructions:

SECTION A

S. No.		Marks	CO
Q 1	Give one example each for Confidentiality, Integrity, Availability and Audit.	4	CO1
Q 2	Mention four steps involved in PDCA cycle.	4	CO1
Q 3	Mention at least four Information Security Issues.	4	CO2
Q 4	Define Operating System and give at least two examples.	4	CO3
Q 5	What are the main challenges in Log Generating and Log Storage?	4	CO5

SECTION B

Q 6	What do you understand by Stakeholders for Information Security Strategy?	10	CO1
Q 7	Describe three types of Cryptography with at least one example each.	10	CO3
Q 8	Explain Risk Assessment, Threat Analysis and Vulnerability Analysis.	10	CO3
Q 9	Explain Information Security Auditing Standards with one example each. OR What is the importance of Logs and the need for Log Management?	10	CO5

SECTION-C

Q 10	Explain the benefits and issues associated with Physical Security.	20	CO4
Q 11	What do you understand by Secure Software Development? (10) Differentiate between Vulnerability Assessment & Penetration Testing. (10) OR What do you understand by Malwares? Give at least three types of Malwares. (10) Describe at least five types of Cybersecurity attacks. (10)	20	CO3