UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2018

Program: B.Tech (CSE+SCF)	**Semester – VI**
Subject (Course): IT System Security	**Max. Marks : 100**
Course Code : CSIB 367	**Duration : 3 Hrs**
No. of page/s: 02	

Section A [5*4 =20]

1. Differentiate between Threat, Vulnerability, Exploit and Risk with the help of a suitable example. [4]

2. What are the various features of Operating System Security? [4]

3. State the various strengths and limitations of Bitdefender Endpoint Security Solution. [4]

4. Draw a neat diagram to show the overview of Application Server Security. [4]

5. Draw and explain in brief about the Database attacks & security Lifecycle. [4]

Section B [4*10=40]

6. Explain the Risk Identification Process with the help of a flow diagram. [10]

7. What are various Database server threats and countermeasures? Write down the steps for securing Database Server. [5+5]

8. Draw and explain the security architecture of Oracle Application Server. Also explain how Single Sign-On is performed in Oracle HTTP Server. [6+4]

9. Write down the general aspects covered in Endpoint Security Solution. Also explain how Gartner's Magic Quadrant works by explaining the evaluation criteria. [5+5]

Or

Write down various drivers that influence the implementation of endpoint security. [10]

Section C [2*20=40]

10. a) Write down and explain OWASP Top 10 2017 Application Security Risks. [10]

b) Write down various best practices used in implementation of Oracle Application Server security. [10]

11. What are various server operating system security guidelines? Explain the working of Tripwire in securing OS. Also explain some attacks on Mobile OS. [10+5+5]

Or

Write down best practices to secure Database server. Also write down the security checklist for a Database Administrator in various tasks and operations. [10+10]

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Section B   [4*10=40]

6. Explain how scoping guidance is applied to the initial baseline. Also write down some important security consideration during IT System Security Process. [5+5]

7. Write down the measures that you will implement to secure open source database? Also explain why there is need of Database Server Security. [5+5]

8. Draw and explain the security architecture of Oracle Application Server. Also explain how Single Sign-On is performed in Oracle HTTP Server. [6+4]

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