

Security & Risk Management

Q. P. Code:-24596

(Time: 3 hrs)

(Marks = 80)

1. Question no 1 is compulsory, solve any 3 questions from remaining 5 questions.
2. Assume Suitable data whenever necessary.
3. Figures in the right indicate full marks.

- Q1. (a) What do you understand by Asset Characterization. Explain with examples the elements of Asset Characterization. 10
- Q1. (b) Explain in detail the qualitative approach for risk assessment. 10
- Q2. (a) Explain Threat Model. What are threat agents? Give their classification. 10
- Q2. (b) Discuss the OCTAVE framework for risk assessment. 10
- Q3 (a) You have been asked to do risk assessment of an online portal for selling electronic goods. Discuss the vulnerabilities and build sample confidentiality, integrity and availability determination matrices. 10
- Q3 (b) Discuss the assessment of email and web services. 10
- Q4. (a) Explain with the help of standard tools, TCP and UDP port scanning. 10
- Q4. (b) What are the contents of a good report? What are post assessment activities? 10
- Q5. (a) What is security engineering? Give a brief overview of the SSE-CMM model. 10
- (b) Discuss the role of Configuration management in the security of an Organization 10
- Q6.(a) Write short notes on: (any two) 20
- i) Web server hardening
 - ii) Enterprise Information Security policy (EISP)
 - iii) Security audit process