M.E - EXTC - Sem-II (Choice Based)

Q. P. Code : 13301

(3 Hours)   (Total Marks: 80

N.B. :
  (a) Question No.1 is compulsory.
  (b) Total 4 questions need to be solved.
  (c) Attempt any three questions from remaining five questions.
  (d) Assume suitable data wherever necessary, justify the same.

1.a Differentiate between Security Operations Center (SOC) and Network operations   [5]
     Center (NOC).
1.b Define and Classify the following attacks as active and passive: Release of   [5]
     Message Contents, Masquerade and Denial of Service, Traffic Analysis and
     Replay.
1.c Differentiate between Digital Signature and Digital Certificate.   [5]
1.d Explain different forms of Intellectual Property.   [5]

2.a Explain in brief the three widely used Virtual Private Network (VPN) Protocols. [10]
2.b Describe the Key generation/expansion processes of Data Encryption standard   [10]
     (DES) and Advanced Encryption standard (AES).

3.a Explain how Authentication header (AH) and Encapsulating Security Payload   [10]
     (ESP) protocols provides authentication and/or encryption for packets at the IP
     level.
3.b Explain Firewall deployment and its limitations. Also compare the various types of [10]
     Firewalls.

4.a What is 'Ethical hacking'? What do 'Ethical hackers' do and why does need for   [10]
     hacking ethically arise?
4.b What is Risk management and Risk Analysis?. Explain why it is important to   [10]
     identify both the threat and the vulnerability when determining risk.

5.a What is the need for Digital Forensics? Explain the different Phases in Digital   [10]
     Forensics.
5.b Explain the different types Intrusin detectiion systems (IDS)? List out the   [10]
     limitations of IDS.

6.a Explain the process of a succesful e-commerce transaction using Secure Electronic [10]
     Transaction(SET) protocol
6.b Differentiate between Biometric Identification and Biometric Authentication.   [10]
     Discuss any one Biometric technique in detail.

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