Printed Pages : 2   **MCAE25**

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2150   Roll No. [　　　　　　　　　　]

MCA
(SEMESTER-V) THEORY EXAMINATION, 2012-13
INFORMATION SECURITY & CYBER LAWS

Time : 3 Hours]   *[Total Marks : 100*

Note :   Attempt questions from each Section as indicated.

Section – A

1.   Attempt **all** parts : $10 \times 2 = 20$

   (a)   What is confidentiality ?

   (b)   What is information integrity ?

   (c)   Briefly explain Denial of Service attacks.

   (d)   What is masquerading or spoofing ? Explain briefly.

   (e)   What is the differences between Security Policy and Security mechanism ? Explain with some suitable example.

   (f)   How the access control mechanisms support confidentiality ?

   (g)   What do you understand by copyright law ? Briefly explain.

   (h)   What is Digital Signature ?

   (i)   What is cyber crime ?

   (j)   Explain briefly about VPN.

Section – B

Attempt any **three** parts : $3 \times 10 = 30$

2.   (a)   What is information integrity ? What mechanisms are required for integrity of information ?

   (b)   What are the security policies of ISO 27001 ? How is the information security organized in ISO 27001 ?

2150   1   **P.T.O.**

(c) What is a Patent ? Why are patents necessary ? What kind of protection do patents offer and what rights do patent owners have ?

(d) What is cryptography ? What are the Security Uses of Public Key Cryptography ? Explain with suitable example.

(e) What are Bridges ? How many types of bridges are there ? Compare and contrast switches and routers.

Section – C

Attempt any **five** questions :   **5 × 10 = 50**

3. Explain in details the biometric systems and what are the various ways to implement it ?

4. What do you understand by Virtual Private Network. How are the types of VPNs ?

5. What is Cyber Crime ? What are the various ways of committing these crimes ?

6. What types of attacks are possible in Ethical Hacking ?

7. What are the benefits of Biometrics in Access Control ? What are the primary functions of biometrics in different areas of access control applications ?

8. What do you understand by Intrusion Detection ? What are the most common approaches to Intrusion Detection System (IDS) ? What should be the characteristics of Ideal IDS ? What are the disadvantages of Host based IDS over Network based IDS ?

9. What is Intellectual Property ? What is Intellectual Property Right (IPR) ? Why is it required to protect and promote Intellectual Property ?