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AUC-002

M. C. A.

(SEM. III) (ODD SEM.) THEORY EXAMINATION, 2014-15

CYBER SECURITY

Time : **2 Hours**]   [Total Marks : **50**

Note :   Attempt All Questions.

SECTION - A

1   Attempt **all** questions :   1×10=10

   1)   What is information assurance and how is it provided?

   2)   Describe security risk analysis.

   3)   How do you classify the information system in general?

   4)   What is the public – key encryption? Explain.

   5)   What are the security threats? Discuss.

   6)   How we can use firewall to make secure our applications?

7) What is the process of developing secure information system?

8) What do you understand by security structure and design?

9) Describe the intellectual property issues (IPR).

10) Write a short note on the Copyright Act.

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SECTION - B

2 Attempt any **three** questions : 5×3=15

1) What is the information security? Explain cyber crime and cyber security in this reference.

2) What is intellectual property? Explain with example.

3) Elaborate the difference between security and threats and explain web security. (

4) Draw the diagrammatical approach to make difference between symmetric and asymmetric Cryptography.

5) How tunneling takes place in Virtual Private Network (VPN)? Explain the advantage of VPN.

SECTION - C

Attempt **all** questions :   5×5=25

3   How you can say that Intrusion Detection System is the backbone of information system ? Justify along with its categories.

OR

Elaborate cyber crime play a vital role against person, property and government to protect all valuable information and rights. https://www.aktuonline.com

4   What are the different technologies used for the security of data and application? Explain the vulnerabilities.

OR

Explain and differentiate between integrating security at the implementation phase and the developing phase.

5   What is the data security considerations? Explain in this reference Data backup security, Data archival security and Data disposal considerations.

OR

Explain in what situation semiconductor law comes in consideration and how it differs from patent law ?

6   What is the application security? Define it in the case of vendor challenges and user challenges for application security.

OR

Explain the concept of cryptography by using the diagrammatical approach of it. Define the transformation method of it.

7   Elaborate the term access control. What is include in authorization process for (File, Program, Data rights) and explain the all types of controls.

OR

Explain the information system resource and activities and what may be the reason of failure of it.