Paper Code: AUC-002

Roll No.

B.Tech./MBA/MCA
ALL EVEN SEMESTERS EXAMINATION, 2015-16
CYBER SECURITY

[Time: 2 hrs.] **[Max. Marks: 50]**

Note: Attempt all questions. All question carry equal marks.

1. Attempt any two parts of the following: - **[6 x 2=12]**

- (a) What is Information security? Explain its need in present world and its basic principle.
- (b) With the help of diagram clearly explain the process of Security risk analysis.
- (c) Explain Information System and their types. Design a layout for threat detection in a system.

2. . Attempt any two parts of the following: - **[7x 2=14]**

- (a) How can digital signature and public key cryptography aid in helping security.
- (b) Explain the following :
    - (i) IDS
    - (ii) E-commerce payment system
    - (iii) Database Security
- (c) Explain common security threats : worms, viruses, Trojan Horse, Bombs, Trapdoors, Spoofs, E-mail viruses, Malicious Software, Network Attack ; to computer devices .

3. Attempt any two parts of the following: - **[6 x 2=12]**

- (a) Explain Information security governance and risk management framework in an organisation.
- (b) What are design security issues in : hardware, data storage devices , physical security IT asset , access control, www and email .
- (c) Discuss why implementation of proper security architecture important?

4. Attempts any two parts of the following: - **[6 x 2=12]**

- (a) Why is security policy developed? Explain security policy for, www and email .
- (b) Discuss how information security standards can aid in benchmarking organisations.
- (c) Write notes on:
    - (i) IT Act 2000.
    - (ii) Copyright and Patent law.
    - (iii) Software licences.