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COMMON TO ALL BRANCHES
THEORY EXAMINATION (SEM-IV) 2016-17
CYBER SECURITY

Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer.

SECTION – A

1. **Attempt all of the following questions:** **10 x 2 = 20**
- (a) What is CIA (Confidentiality, Integrity and Availability) trade?
 - (b) What are the threats to information system?
 - (c) What is System Development Life Cycle (SDLC)?
 - (d) Define the terms RTGS and NEFT.
 - (e) What do you mean by virus, worm and IP spoofing?
 - (f) How cyber security is different from computer security?
 - (g) State the difference between Risk Management and Risk Assessment.
 - (h) Explain briefly about disposal of data.
 - (i) Define IT asset and the security of IT Assets.
 - (j) What is the need of cyber laws in India?

SECTION – B

2. **Attempt any five parts of the following question:** **5 x 10 = 50**
- (a) What are biometric? How can a biometric be used for access control? Discuss the criteria for selection of biometrics.
 - (b) What is Intrusion Detection System (IDS)? Explain its type in detail.
 - (c) What are the backup security measures? Discuss its type.
 - (d) What are the basic fundamental principles of information security? Explain.
 - (e) Write a short note on CCTV and its applications.
 - (f) What is Electronic cash? How does cash based transaction system differ from credit card based transactions?
 - (g) What do you mean by Virtual Private Networks? Discuss authentication mechanism used in VPN.
 - (h) **Write a short note on:**
 - (i) Database Security
 - (ii) Email Security
 - (iii) Internet Security

SECTION – C

- Attempt any two of the following questions:** **2 x 15 = 30**
- 3. What is Electronic Data Interchange (EDI)? What are the benefits of EDI? How can it be helpful in governance?
 - 4. What is digital signature? What are the requirements of a digital signature system? List the security services provided by digital signature.
 - 5. Explain the following in detail :
 - (i) Private Key cryptosystem and Public key cryptosystems.
 - (ii) Firewall.