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Paper Id: 199503

Sub Code: RUC 501

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B TECH
(SEM V) THEORY EXAMINATION 2018-19
CYBER SECURITY

Time: 3 Hours**Total Marks: 70****Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

1. **Attempt all questions in brief.** **2 x 7 = 14**
- Write a short note on the Copyright Act?
 - What do you mean by physical Security for information Systems?
 - Describe Intellectual Property Issues (IPR).
 - Write short notes on "Patent Law".
 - What do you mean by WWW policy?
 - Give small notes on Corporate Policy.
 - Differentiate between Cyber Security and Information Security.

SECTION B

2. **Attempt any three of the following:** **7 x 3 = 21**
- What are the key differences between Symmetric and Asymmetric encryption?
 - Explain Information Security Governance in detail and process involved in the Risk Management?
 - Explain briefly about Application Development Security with guidelines.
 - Elaborate the term Access Control. What is include in authorization process for (File, Program, Data rights) and explain the all types of controls.
 - What do you understand by security structure (Architecture) and design?

SECTION C

3. **Attempt any one part of the following:** **7 x 1 = 7**
- What do you mean by Intellectual Property? Describe various means using which Intellectual Property may be protected to an extent.
 - Explain Confidentiality, Integrity and Availability in terms of cyber security.
4. **Attempt any one part of the following:** **7 x 1 = 7**
- What are the approaches followed in developing Information System (IS)? Explain the difference between security and threats.
 - What is the need of information Security also explain the term ISMS?
5. **Attempt any one part of the following:** **7 x 1 = 7**
- Explain the role of Security in Internet and Web Services.
 - What is Intrusion Detection System? Explain with Block Diagram.
6. **Attempt any one part of the following:** **7 x 1 = 7**
- Explain in Detail about Secure Information System Development.
 - Describe the working principle of CCTV.
7. **Attempt any one part of the following:** **7 x 1 = 7**
- What are the Data Security Considerations? Explain in this reference Data Backup Security.
 - What is Public Key Cryptography? Define its Advantage and Disadvantage.