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BTECH
(SEM III) THEORY EXAMINATION 2021-22
CYBER SECURITY

Time: 3 Hours**Total Marks: 70****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2*7 = 14**

a.	How does a secure information system get developed?
b.	What security risks do you face? Discuss.
c.	Differentiate between Risk Management and Risk Assessment.
d.	What distinguishes cyber security from computer security?
e.	Explain briefly about disposal of data.
f.	What exactly do you mean when you say "virus," "worm," and "IP spoofing"?
g.	What does it mean to trade in CIA (Confidentiality, Integrity, and Availability)?

SECTION B**2. Attempt any three of the following: 7*3 = 21**

a.	What is an Intrusion Detection System (IDS) and how does it work? Give a detailed description of its kind.
b.	What backup security measures are in place? Discuss the type of it.
c.	What are the essential information security principles? Explain.
d.	Prepare a brief overview of CCTV and its uses.
e.	What is the definition of electronic cash? What is the difference between a cash-based transaction system and a credit-card-based transaction system?

SECTION C**3. Attempt any one part of the following: 7*1 = 7**

a.	How can you argue that the Intrusion Detection System is the information system's backbone? Justify along with it.
b.	To preserve all important information and rights, elaborate how cyber crime plays a critical role against people, property, and the government.

4. Attempt any one part of the following: 7*1 = 7

a.	What are the various technologies used to ensure data and application security? Explain of the flaws.
b.	Distinguish between the phases of implementation and development when it comes to integrating security.

5. Attempt any one part of the following: 7*1 = 7

a.	What data security concerns do you have? Explain data backup security, data archive security, and data disposal issues in this reference.
b.	What situations does semiconductor law apply to, and how does it vary from patent law?



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6. Attempt any *one* part of the following:

7*1 = 7

a.	What is the definition of application security? Define it in the case of vendor challenges and user challenges for application security.
b.	Using a diagrammatical method, explain the notion of cryptography. Define the technique of transformation.

7. Attempt any *one* part of the following:

7*1 = 7

a.	Explain what the word "access control" means. What does the permission procedure for (File, Program, and Data rights) include, and what are the various sorts of controls?
b.	Explain the information system's resources and operations, as well as what could be causing it to fail.

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