

Paper Id:

214305

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MCA
(SEM-III) THEORY EXAMINATION 2019-20
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**
- a. What do you understand by Cyber World?
 - b. How Information System is helpful to us?
 - c. What benefits we receive through Software Development Models?
 - d. What do you understand by security threats?
 - e. What do you understand by network monitoring?
 - f. List out the phases of Secure System Development Life Cycle.
 - g. Why intellectual properties are required to be safeguarded?

SECTION B

- 2. Attempt any three of the following: 7 x 3 = 21**
- a. Explain the working mechanism of Information System with the help of suitable diagram.
 - b. What are the different categories of Information System? Do the comparative analysis of it.
 - c. Suggest the practices to be performed to safeguard backups.
 - d. How patent is useful for safeguarding intellectual innovations? Justify your answer with required examples.
 - e. Why the need had been felt to have legal system in the form of IT Act 2000? Do explain the features of IT Act.

SECTION C

- 3. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain the differences between Computer Literacy and Information System Literacy. Do Explain the role of different Information System Resources.
 - (b) Describe the subcategories of Management Support System with the help of required examples.
- 4. Attempt any one part of the following: 7 x 1 = 7**
- (a) How Evolutionary Model is different from Incremental Model of Software development?
 - (b) Describe the use of Information Security Management System (ISMS). Explain the benefits of ISMS.
- 5. Attempt any one part of the following: 7 x 1 = 7**
- (a) What do you understand by Application Security? What challenges faced by vendors in regard of Application Security? Explain the guidelines to secure client side applications.
 - (b) How DoS and DDoS attacks are different from each other?
- 6. Attempt any one part of the following: 7 x 1 = 7**
- (a) Describe the issues related to secure development of applications with required justifications.
 - (b) Explain the purpose of common framework of development. Do explain the benefits achieved through it.
- 7. Attempt any one part of the following: 7 x 1 = 7**
- (a) Explain the need of Information Security Policy. Do explain the use of WWW Policy while justifying your answer.
 - (b) Explain the use of Policy Review Process along with the different stages of doing it.