

Paper Id: **214305**

Roll No:

| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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.