1. Explain the various components of an Information system. Discuss the legal and ethical issues associated with the information security.

2. What is intrusion detection system ? Explain its categories and operating models in detail.

3. Define firewall. What are its different types? Explain the working of each in detail.

4. What are the major stages of risk assessment ? Explain. Give an account on risk control strategies.

5. Write notes on any three from the following :

(a) WPA

(b) Malware

(c) DOS attack

(d) CERT-In

Section - B

(Short-Answer-Type Questions)

Note - Section 'B' contains Eight (08) short-answer-type questions of Seven (07) marks each. Learners are required to answer any Five (05) questions only.

$(5 \times 7 = 35)$

1. What is ethical hacking ? Explain.

2. Explain the impact of e-commerce to organizations, customers and society at large.

3. What are the Major Security Challenges in cyber space ?

4. What do you understand by Security Policy, standards and procedures ?

5. What is hacking and when it is punishable under Indian law ?

6. Explain the difference between Viruses, Worms, Trojans and Bots.

7. What do you understand by cyber bullying ? Explain.

8. Explain the role of National critical Information Infrastructure Protection Centre of India.

CEGCS-02/PGDCS-02/ MIT (CS) - 102

Cyber Security Techniques

Certificate of E-Governance and Cyber Security / P. G. Diploma/ M. Sc. Cyber Security

(CEGCS-16/17/PGDCS-17/MSCCS)

First Semester, Examination - 2019

Time : 3 Hours **Max. Marks : 80**

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Note - This Paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the Questions contained in these sections according to the detailed instructions given therein.

Section - A
(Long-Answer-Type Questions)

Note - Section 'A' contains Five (05) long-answer-type questions of Fifteen (15) marks each. Learners are required to answer any Three (03) questions only.

(3 × 15 = 45)