

Roll No.

CEGCS-01

Foundamentals of Information Security

**Certificate of E-Governance and Cyber Security
(CEGCS-16)**

First Semester, Examination, 2017

Time : 3 Hours

Max. Marks : 70

Note : This paper is of **seventh (70)** marks containing **three (03)** sections A, B and C. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note : Section 'A' contains four (04) long answer type questions of fifteen (15) marks each. Learners are required to answer *two* (02) questions only.

1. (a) What is an IP address ? Explain the addressing scheme in the Internet.
(b) What is the difference between e-Government and e-Governance ?
(c) Define the Organizational hierarchical structure of cyber criminals.
2. (a) What is Spamming ? Define the criteria based on which an e-Mail can be classified as spam.
(b) What is Data Privacy ? What are the responsibilities of a company handling personal data ?

- (c) How do we know at what point we can consider our environment to be secure ?
- 3. (a) If the web servers in our environment are based on Microsoft's Internet Information Server (IIS) and a new worm is discovered that attacks Apache Web servers, what do we not have ?
- (b) How is information security achieved, according to the standard ?
- (c) How much control does an organisation have over the shareability and scarcity regions of its information assets ?
- 4. (a) Explain the working of a digital signature.
- (b) What is ubiquitous computing ?
- (c) Define Ambient Intelligence.

Section-B

(Short Answer Type Questions)

Note : Section 'B' contains eight (08) short answer type questions of five (05) marks each. Learners are required to answer *six* (06) questions only.

- 1. What is the moral importance of Computer Security ?
- 2. What is hacking ? Classify different types of hacking.
- 3. What is certifying authority ?
- 4. Which category of attack is an attack against confidentiality ?
- 5. Explain the revenue model of an e-Commerce company.
- 6. What is e-Governance ? What are the goals of e-Governance ?
- 7. What is computer virus ? Define various types of virus.
- 8. What is safety critical systems ?

Section–C**(Objective Type Questions)**

Note : Section ‘C’ contains ten (10) objective type questions of one (01) mark each. All the questions of this section are compulsory.

1. was the first national commercial online service to offer Internet access to its subscribers.
2. model is based on mass dissemination of governance-related information which is already available in the public domain into the wider public domain using ICTs.
3. There are four fundamental concerns regarding electronic money are,, and
4. The major shortfall of is that all transactions must pass through the banking system, which is legally required to record every transaction.
5. are generally performed by amateurs who don't have any predefined motives to perform the cyber attack.
6. refers to the trading of goods over the internet.
7. NCRB stands for
8. CIA stands for confidentiality, integrity and
9. To maximize an information asset's utility (and thus its value) to an organization, it should be available within its region whenever needed.
10. A is used to give the document a unique value.

