MASTER OF COMPUTER APPLICATIONS (MCA-NEW)

Term-End Examination

June, 2022

MCS-215 : SECURITY AND CYBER LAWS

Time : 2 hours   *Maximum Marks : 50*

*Note : Question no. **1** is **compulsory**. Attempt any **three** questions from the rest.*

1. Explain the following in brief :   *4×5=20*

(a)   Digital Signature

(b)   Pros and Cons of Digital Security

(c)   Cyber Security Threats

(d)   UNCITRAL Model Law

2. Discuss the issues arising due to Linking, Inlining and Framing.   *10*

3. Discuss the conditions under which a person is liable to pay damages for violating the provisions of the Information Technology Act, 2000. *10*

4. "Authentication is one of the most important of all information security objectives." Critically examine the statement. *10*

5. Discuss in brief the various data security measures. *10*

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*Note : Question no. **1** is **compulsory**. Attempt any **three** questions from the rest.*

1.   Explain the following in brief :   *4×5=20*

   (a)   Data Management

   (b)   Copyright and Related Rights

   (c)   Advantages of Public Key Cryptography

   (d)   Need for Regulation of Cyberspace

2. Discuss security issues in Cyberspace. *10*

3. Write a note on Cyber Forensics. *10*

4. Give an overview of Cyberspace regulation in India. *10*

5. Discuss the six principles of Security Management. *10*

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Note : *(i) Question Number 1 is compulsory and carries **20** marks.*

   *(ii) Attempt any **three** questions from question nos. **2** to **5**.*

1. (a) Explain any *five* security issues in cyberspace.   5

  (b) What are the *three* governing principles of data security ? Explain how these *three* principles can be implemented.   6

(c) Explain any *two* strategies of regulating the Internet.   4

(d) What is the meaning of Intellectual Property ? Explain the following forms of intellectual property :   5

    (i) Copyright and related rights

    (ii) Patents

2. (a) How can technology be used to answer the following security issues ?   2+2+1

    (i) Unauthorized access

    (ii) Malwares

    (iii) Phishing

(b) What is the use of cryptography ? Explain the concept of substitution cipher with the help of an example.   5

3. (a) Explain the concept and uses of digital signature and digital certificates.   5

(b) Explain the following terms :   5

    (i) Security audit

    (ii) Security policy

4. (a) What is the purpose of using filtering devices and rating system on the Internet ? Discuss the offences in the context of regulation of cyber law content in India.   5

   (b) List the *four* categories of cyber crimes. List various cyber crimes of each category. How is cyber crime different from traditional crime ?   5

5. (a) What is cyber forensics ? Explain with the help of an example.   5

   (b) What is Trademark ? What are the different types of remedies available against infringement of trademark ?   5

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　　(ii) Attempt any ***three*** *questions from question nos.* ***2 to 5***.

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1. (a) What is a transposition cipher ? Explain with the help of an example. 5

   (b) What is confidentiality and availability of data in the context of data security ? Explain, how confidentiality can be maintained and availability can be ensured in a data management system. 5

(c) What are the liabilities of network service providers, in the context of cyber crimes ? Explain.   5

(d) What are the possible trademark infringements related search engines ? Explain.   5

2. Describe the following issues related to cyberspace :   10

(a) Distributed denial of service attack

(b) Malwares

(c) Crypto jacking

(d) Cyber physical attack

(e) Phishing

3. (a) What are the advantages and disadvantages of symmetric-key cryptography ?   5

(b) Explain the following security measures :

                                                          2+2+1

(i) E-mail security

(ii) Anti-virus protection

(iii) Access security

4. (a) What are the needs of regulating the cyber-space ? Explain.   5

    (b) Explain the role of filtering devices and rating systems in the context of legal and self regulatory framework of cyberspace.   5

5. Explain the following terms in the context of cyber crimes and cyber laws and JPR issues : 10

    (i) Cyber Forensics

    (ii) Classification of cyber crimes

    (iii) Domain name disputes

    (iv) Framing

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Note : (*i*) *Question No. **1** is compulsory.*

(*ii*) *Attempt any **three** questions from the rest.*

1. Explain the following in brief : 4×5=20

    (a) Benefits of digital security

    (b) Key functions of cryptography

    (c) Patent misuse

    (d) UNCITRAL Model Law, 1996

2. Discuss security issues emerging in Cyberspace. 10

3. What is Encryption ? Distinguish between Symmetric key and Public key encryption schemes.   10

4. Explain the *six* principles of security management.   10

5. Discuss the acts for which a person is liable to pay damages under Section 43 of Information Technology Act.   10

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