MASTER OF COMPUTER APPLICATIONS (MCA–NEW)

Term-End Examination

December, 2023

MCS-215 : SECURITY AND CYBER LAWS

Time : 2 Hours   *Maximum Marks : 50*

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

(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

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(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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