



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 214564

Roll No.

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M. C. A.

(SEM. V) (ODD SEM.) THEORY
EXAMINATION, 2014-15

INFORMATION SECURITY AND CYBER LAWS

Time : 3 Hours]

[Total Marks : 100

- Note :**
- (i) Attempt all questions.
 - (ii) All questions carry equal marks.

- 1** Attempt any **four** parts of the followings: **(5x4=20)**
- (a) What is Information System(IS) ? Briefly explain the history of IS.
 - (b) What do you understand by the distributed IS ? Also discuss the different types of IS.
 - (c) What are the issues in security in mobile and wireless computing ?
 - (d) Define IPV4 and IPV6.
 - (e) What do you understand by security matrices? Explain in detail.
 - (f) Define internet, intranet and extranet. Also differentiate between them.

- 2 Attempt any **four** parts of the followings: **(5x4=20)**
- (a) What do you understand by the electronic data interchange(EDI) ? Explain how it works ?
 - (b) Explain the concepts Confidentiality, Integrity, Availability in information security ?
 - (c) Explain the working concept of electronic payment systems.
 - (d) What is smart card ? Also explain the different types of smart cards.
 - (e) What is e-governance ? Also, write the services provided by e-governance.
 - (f) Explain different EDI standards in detail.

- 3 Attempt any **two** parts of the followings: **(10x2=20)**
- (a) What is access management and identity management? Also, explain the different elements related with identity and access management.
 - (b) Define ISO and SEE-CMM in detail with diagram.
 - (c) What is need of using firewall? Also explain the different types of firewall.

- 4 Attempt any **two** parts of the followings: **(10x2=20)**
- (a) What are the two basic functions used in encryption algorithms? Also, explain symmetric key cryptography.
 - (b) Write the digital signature algorithm (DSA) of digital signature standard. Give reasons behind choice of various parameters of the algorithm. Explain with example.
 - (c) What do you understand by virtual private network(VPN)? Explain the different types of VPN. Also describe the use of tunnelling with VPN.

5 Attempt any **two** parts of the followings: (10x2=20)

- (a) Explain cyber crimes and its types. Also differentiate between cyber bullying and cyber stalking.
- (b) Define cyber ethics. What are the ethical issues of cyber ethics?
- (c) Write detail notes on Intellectual property, cyber law, copy right.