



17514

21415

3 Hours/100 Marks

Seat No.

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- Instructions :** (1) **All** questions are **compulsory**.
(2) Illustrate your answers with **neat** sketches **wherever** necessary.
(3) Figures to the **right** indicate **full** marks.
(4) **Assume** suitable data, **if** necessary.
(5) **Preferably** write the answers in **sequential** order.
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MARKS

1. A) Attempt **any three** : 12
- a) What is CIA of security ? Describe in brief.
 - b) List any four biometrics methods used for identification. List any four advantages of biometrics.
 - c) Define Encryption and Decryption with reference to computer security.
 - d) Explain following terms w.r.t. security :
 - i) Intruders
 - ii) Insiders.
- B) Attempt **any one** : 6
- a) Describe the following attacks :
 - i) Sniffing
 - ii) Spoofing.
 - b) Enlist any four cyber crimes. Describe any one in detail.
2. Attempt **any two** : 16
- a) Explain following attacks :
 - i) Man In Middle Attack and
 - ii) Denial Of Service Attack.Also suggest ways to avoid them.
 - b)
 - i) Give characteristics of good password.
 - ii) What is meant by Dumpster diving ? How it is used for attacking ? Give the ways to avoid/prevent this.
 - c) Explain the concept of Hashing with the help of diagram. List its advantages (any 4 points).

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3. Attempt **any four** : 16
- a) What is the application of firewall ? How it works ? Enlist its limitations.
 - b) Describe in brief :
 - i) Piggybacking
 - ii) Shoulder surfing.
 - c) What is meant by steganography ? Describe its importance.
 - d) With the help of neat diagram describe host based Intrusion Detection System.
 - e) Describe in brief the process of application hardening.
4. A) Attempt **any three** : 12
- a) Describe rail fence technique. Convert "I am a student" into cipher text using rail fence method.
 - b) Describe PGP with reference to email security.
 - c) Explain how deleted file can be recovered.
 - d) Explain with neat sketch the working of Secure Socket Layer (SSL).
- B) Attempt **any one** : 6
- a) Enlist different challenges to be faced while considering computer security.
 - b) With suitable example explain :
 - i) Logic Bomb attack and
 - ii) Time Bomb attack.
5. Attempt **any two** : 16
- a) Describe the role of individual user while maintaining security. What are the limitations of following biometrics identification methods.
 - i) Hand print
 - ii) Retina
 - iii) Voice
 - iv) Signature.
 - b) i) Describe working principle of SMTP.
ii) With neat sketch explain the working of Network Based IDS.
 - c) Give IP Sec configuration. Describe AH and ESP modes of IPSEC.
6. Attempt **any four** : 16
- a) Describe role of people in security.
 - b) What is meant by access control. Describe :
 - i) DAC
 - ii) MAC
 - iii) RBAC
 in brief.
 - c) Explain Virtual Private Network in brief. Define DMZ.
 - d) Describe data recovery principle and ethics.
 - e) Describe any four components of secure electronic transaction. Give sketch also.
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