

17514

16172

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

- | | Marks |
|---|--------------|
| 1. (A) Attempt any THREE of the following : | 12 |
| (a) Describe CIA security model. | |
| (b) What is shoulder surfing ? How it can be prevented ? | |
| (c) Describe symmetric and asymmetric key cryptography. | |
| (d) What is a virus ? Describe various phases of virus. | |
| (B) Attempt any ONE of the following : | 06 |
| (a) Describe with the neat diagram model for security. | |
| (b) Describe the process of formatted partition recovery. | |
| 2. Attempt any TWO of the following : | 16 |
| (a) Describe the following term : | |
| (i) Sniffing | |
| (ii) Spoofing | |
| (iii) Man-in-the middle | |
| (iv) TCP/IP Hijack | |

- (b) Describe Biometric security mechanism with suitable diagram.
- (c) Describe DES Algorithm with suitable diagram.

3. Attempt any FOUR of the following : 16

- (a) Describe DMZ with suitable diagram.
- (b) State the importance of security awareness. How it can be achieved ?
- (c) What is steganography ? What are its applications ?
- (d) Describe IP based VLAN in detail.
- (e) Describe SET participants.

4. (A) Attempt any THREE : 12

- (a) Convert plain text into cipher text by using simple columnas technique of the following sentence :

‘ALL IS WELL FOR YOUR EXAM’

- (b) Describe IPsec configuration.
- (c) Describe the process of cyber crime investigation.
- (d) What is an application hardening ? How it can be achieved ?

(B) Attempt any ONE of the following : 6

- (a) What is Risk ? How it can be analyzed ? List various assets.
- (b) State the types of attacks and describe Active and Passive attack with atleast one example each.

- 5. Attempt any TWO of the following : 16**
- (a) What is a password ? Describe various policies for password selection.
 - (b) Describe with suitable diagram Intrusion Detection System.
 - (c) Describe 'Kerberos' protocol with suitable diagram.
- 6. Attempt any FOUR of the following : 16**
- (a) What is piggybacking ? How it can be prevented ?
 - (b) What is One Time Pad (OTP) security mechanism ?
 - (c) Describe PGP with suitable diagram.
 - (d) What is pornography ?
 - (e) What is SSL/TLS ?
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