

22620

23242

3 Hours / 70 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.

Marks

1. Attempt any FIVE of the following :

10

- (a) Differentiate between viruses & worms.
- (b) State any four advantages of Biometrics.
- (c) Explain the term cryptanalysis.
- (d) Define term cyber crime.
- (e) Explain the term assets.
- (f) State any four limitations of firewall.
- (g) Explain working of Kerberos in short.

2. Attempt any THREE of the following :

12

- (a) Enlist types of Biometrics & explain any one Biometrics type in detail.
- (b) Explain DOS with neat diagram.
- (c) Differentiate between symmetric and asymmetric cryptography.
- (d) Illustrate digital signature and explain it with neat diagram.



- 3. Attempt any THREE of the following : 12**
- (a) Define the following terms :
 - (i) Authentication
 - (ii) Authorization
 - (b) Convert plain text into cipher text by using simple columnar technique of the following sentence :
ALL IS WELL FOR YOUR EXAM.
 - (c) Describe packet filter router firewall with neat diagram.
 - (d) Explain working of fingerprint mechanism and its limitations.
- 4. Attempt any THREE of the following : 12**
- (a) Explain Caesar's cipher substitution technique with example.
 - (b) Describe host based IDS with its advantages and disadvantages.
 - (c) Define Hacking. Explain different types of Hackers.
 - (d) Explain the features of IDS technique.
 - (e) Differentiate between substitution and transposition techniques ?
- 5. Attempt any TWO of the following : 12**
- (a) Explain active attack and passive attack with suitable example.
 - (b) Describe the DMZ with suitable example.
 - (c) Explain working principle of SMTP in detail.
- 6. Attempt any TWO of the following : 12**
- (a) Explain any three criteria for classification of information.
 - (b) Describe COBIT framework with neat sketch.
 - (c) Explain policies, configuration & limitations of firewall in detail.
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