

Seat No. : \_\_\_\_\_

**AE-126**

April -2018

**B.Com., Sem.-VI**

**Core Elective : 303 (D) : Computer Application  
(Information Security)**

**Time : 3 Hours]**

**[Max. Marks : 35**

**સૂચના :** બધા પ્રશ્નોના ગુણ સરખાં છે.

1. (a) Information Securityની લાક્ષણિકતા સમજાવો. (કોઈપણ ચાર) 4  
અથવા  
Information Security એટલે શું ? તેના ઈતિહાસ પર ટૂંકનોંધ લખો.  
(b) Information Securityની Layers સમજાવો. 3  
અથવા  
Information Securityની Components સમજાવો.
2. (a) Threat એટલે શું ? જાણીતા threatsનું list બનાવો. 4  
અથવા  
Attack એટલે શું ? કોઈપણ ત્રણ Attack સમજાવો.  
(b) ધંધામાં Information Securityની જરૂર જણાવો. 3  
અથવા  
Risk Management એટલે શું ? સમજાવો.
3. (a) VPN પર ટૂંકનોંધ લખો. 4  
અથવા  
Packet Filtering Firewall સમજાવો.  
(b) Access Control વિસ્તારથી સમજાવો. 3  
અથવા  
Application Gateway સમજાવો.

4. (a) Cryptography એટલે શું ? તેના Tools જણાવો. 4
- અથવા**
- Digital Signature અને Digital Certificationનો તફાવત લખો.
- (b) Steganography સમજાવો. 3
- અથવા**
- Symatric Encryption પર નોંધ લખો.
5. નીચે આપેલ પ્રશ્નોના યોગ્ય વિકલ્પ પસંદ કરી જવાબ લખો : 7
- (1) CIO નું પુરૂં નામ \_\_\_\_\_.  
 (a) Chief Information Officer (b) Critical Information Organization  
 (c) Chief Investing Officer (d) Crime Information Officer
- (2) ARPA નું પુરૂં નામ \_\_\_\_\_.  
 (a) Auto Research Project Agency (b) Advance Rate Prototype Agency  
 (c) Advance Research Project Agency (d) આમાંથી કોઈ નહીં.
- (3) PIN નું પુરૂં નામ \_\_\_\_\_.  
 (a) People Information Number (b) People Identification Number  
 (c) Personal Information Number (d) Personal Identification Number
- (4) \_\_\_\_\_ એ કારણ વગરના વેપારી E-mail છે.  
 (a) Hoax (b) Spoofing  
 (c) Spam (d) All of the above
- (5) Encryption and Decryptionનો મહત્વનો ભાગ \_\_\_\_\_ છે.  
 (a) Paper (b) Key  
 (c) Electronic Media (d) આમાંથી કોઈ નહીં
- (6) \_\_\_\_\_ લોકો કોમ્પ્યુટરનો ઉપયોગ કરીને નિયમ વિરૂદ્ધ માહિતી મેળવે છે.  
 (a) Crackers (b) Hackers  
 (c) Virus (d) ઉપરના તમામ
- (7) થોડાક સમય પૂરતો પાવર જાય તેને \_\_\_\_\_ કહે છે.  
 (a) Spike (b) Brownout  
 (c) Fault (d) Blackout

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**Instruction :** All question carry equal marks.

1. (a) Explain characteristics of Information Security. (Any **four**) **4**

**OR**

What is Information Security ? Write short note on its History.

- (b) Explain Layers of Information Security. **3**

**OR**

Explain Components of Information Security.

2. (a) What is Threat ? Prepare list of known threats. **4**

**OR**

What is Attack ? Explain any three Attack.

- (b) Explain necessity of Information Security in business. **3**

**OR**

What is Risk Management ? Explain.

3. (a) Write short note on VPN. **4**

**OR**

Explain : Packet Filtering Firewall.

- (b) Explain in brief : Access Control. **3**

**OR**

Explain : Application Gateway

4. (a) What is Cryptography ? Explain its Tools. 4

**OR**

Write Difference between Digital Signature & Digital Certification.

- (b) Explain Steganography. 3

**OR**

Write note on Symatric Encryption.

5. Write answer of the following question choosing correct option : 7

- (1) Full form CIO is \_\_\_\_\_.  
(a) Chief Information Officer (b) Critical Information Organization  
(c) Chief Investing Officer (d) Crime Information Officer
- (2) Full form of ARPA is \_\_\_\_\_.  
(a) Auto Research Project Agency (b) Advance Rate Prototype Agency  
(c) Advance Research Project Agency (d) None of the above
- (3) Full form of PIN is \_\_\_\_\_.  
(a) People Information Number (b) People Identification Number  
(c) Personal Information Number (d) Personal Identification Number
- (4) \_\_\_\_\_ is unsolicited commercial E-mail.  
(a) Hoax (b) Spoofing  
(c) Spam (d) All of the above
- (5) \_\_\_\_\_ is important part of Encryption and Decryption.  
(a) Paper (b) Key  
(c) Electronic Media (d) None of the above
- (6) \_\_\_\_\_ person who gain information illegally using Computer.  
(a) Crackers (b) Hackers  
(c) Virus (d) All of the above
- (7) \_\_\_\_\_ is used for power off for few times.  
(a) Spike (b) Brownout  
(c) Fault (d) Blackout
- \_\_\_\_\_