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E – 1892

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2018**  
**Career Related FDP Under CBCSS**  
**Group 2(b) – Computer Science/Group 2(a) – Computer Applications**  
**Core Course – CS 1641/Vocational Course xi – PC 1671**  
**INTRODUCTION TO INFORMATION SECURITY**  
**(2014 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**  
**(Very Short Answer Type)**

**One word to maximum of one sentences. Answer all questions. (10×1=10 Marks)**

1. Define authentication.
2. Define encryption.
3. Expand RSA.
4. Define digital signature.
5. Expand MIME.
6. What is PGP ?
7. Define virus.
8. What is firewall ?
9. Define steganography.
10. What is a worm ?

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**SECTION - B**  
**(Short Answer)**

Not to exceed **one** paragraph, answer **any eight** questions. Each question carries **two** marks.

(8×2=16)

11. Write a note on network security.
12. What is symmetric encryption ?
13. What is a cipher text ?
14. What is confidentiality ?
15. Write about message digest.
16. Differentiate IPv4 and IPv6.
17. Explain about ESP protocol.
18. Explain about SSL.
19. Define trojans.
20. What is a gateway ?
21. What is trusted systems ?
22. Write a note on Information Technology Act, 2008.

**SECTION - C**  
**(Short Essay)**

Not to exceed **120** words, answer **any six** questions. Each question carries **four** marks.

(6×4=24 Mark)

23. Explain in detail about authentication.
24. Write in detail about ciphers.
25. Write a note on data encryption.



- 1. Explain about ESP protocol.
- 2. Write a note on application level gateways.
- 3. Explain about malicious software.
- 4. Explain about virus.
- 5. Write a short note on Indian penal code.
- 6. Write a note on IT Act 2000.

**SECTION - D**  
**(Long Essay)**

Answer any two questions. Each question carries 15 marks. (2×15=30 Marks)

- 32. Explain in detail about digital signature algorithm.
- 33. Write a detailed note on system security.
- 34. Discuss role of firewall in security in detail.
- 35. Discuss in detailed :
  - a) Cyber crime and IT Act 2000/2008.
  - b) Indian Copyright Act.
  - c) Consumer Protection Act.



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**Group 2(b) – Computer Science/Group 2(a) – Physics and Computer Applications**

**Core Course : CS – 1641/Vocational Course – XI : PC – 1671**

**INTRODUCTION TO INFORMATION SECURITY**

**(2014 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**  
**(Very Short Answer Type)**

**One word to maximum of one sentences. Answer all questions. (10×1=10 Marks)**

1. Define Information Security.
2. What you meant by cipher ?
3. What is DSS ?
4. What is message digest ?
5. Define Computer Virus.
6. List two characteristics of firewall.
7. What is cyber crime ?
8. Define law of convergence.
9. Define cryptography.
10. What are data encryption standards ?

**P.T.O.**

**SECTION - B**  
**[Short Answer]**

Not to exceed one paragraph. Answer any eight questions. Each question carries two marks. (8x2=16)

11. Explain Public key cryptography.
12. What are the requirements of Network security ?
13. What is meant by key distribution ? Explain.
14. Explain different authentication methods.
15. Write a note on IPV4.
16. What is SSL session ?
17. What are the limitations of firewall ?
18. What is copyright ?
19. What is malware ?
20. What do you mean by message digest ?
21. Why are anti-virus programs required ?
22. Why consumer rights have to be protected ?

**SECTION - C**  
**[Short Essay]**

Not exceeding 120 words, answer any six questions. Each question carries four marks. (6x4=24 Marks)

23. Explain about encryption based information security.
24. What is digital signature ? How is it implemented ?
25. State Indian Contract Act 1872.
26. Explain the working of Anti-Virus software.
27. Discuss IP Security Architecture.

29. Discuss the future trends in Security and cyber law.
30. Explain the working of MIME.
31. Discuss Indian Copyright Act.
32. Write a note on Trojan.

**SECTION - D**  
**[Long Essay]**

Answer **any two** questions. Each question carry 15 marks. **(2×15=30 Marks)**

32. Explain in detail the concept of secured information transfer.
33. Discuss in detail the digital signature algorithm for ensuring authenticity.
34. Discuss the important characteristics of firewall ? Explain the firewall based system protection mechanism.
35. Discuss the various regulations established by Govt. of India to prevent cyber crime.
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