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## **BCA-10 (Bachelor of Computer Application)**

# Sixth Semester, Examination-2014

# **BCA-604**

# **Networking & System Security**

Time Allowed: Three Hours

**Maximum Marks**: 60

Note: The paper is divided into three sections A, B and C. Notes for each section are given in the section itself.

#### Section - A

(Long answer type Questions)

Note: Answer any 2 Questions. Each question carries 15 marks.  $(2\times15=30)$ 

- 1. (a) What are the key principles of the security? Explain with example.
  - (b) Distinguish between vulnerability and threat.
- 2. What is network security? Explain different types of attack in network.
- 3. (a) Describe different mechanisms for user authentication.
  - (b) Discuss Computer Intrusion with suitable examples.
- 4. Write short notes on following:
  - a. Kerbores
  - b. PKI
  - c. Intrusion Detection Systems (IDS)

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#### Section - B

### (Short answer type Questions)

Note: Answer any 4 questions. Each question carries 5 marks.  $(4\times5=20)$ 

- 1. Explain digital signature in brief.
- 2. What is VPN? Discuss network applications of VPN.
- 3. Discuss Biometric based authentication.
- 4. Give a general structure of IPSec Authentication header.
- 5. What is risk assessment and mitigation?
- 6. Define following:
  - a. IPS products
  - b. Worms
- 7. Define virus and describe the virus spreading mechnaism.
- 8. What is server security?

#### Section - C

### (Objective type Questions)

Note : Answer all questions. Each question carries 1 Marks.  $(10 \times 1=10)$ 

- 1. Firewalls:
  - a. monitors traffic crossing network perimeters
  - b. imposes restrictions according to security policy
  - c. protect enterprise networks from unauthorized access
  - d. All of the above

2.	AAA services stand for:							
	a.	authentication, authorization, and accounting						
	b.	audit, authorization, and accounting						
	c.	authentication, automatic, and accounting						
	d.	None of the above						
3.	QoS stands for:							
	a.	Quality of Scale	b.	Quality of Service				
	c.	Quality of Scale	d.	Quantitative Scope				
4.	VPN:	N:						
	a.	reduce cost.	b.	improve connectivity				
	c.	maintain security	d.	All of the above				
5.	IPsec can be implemented in:							
	a.	host-to-host transport mode						
	b.	network tunneling mode						
	c.	both a and b						
	d.	d. none of the above						
6.	-	eate, manage, distr	(I) is a set of needed use, store, and revoke digital					
	a.	hardware						
	b.	b. hardware, and software						
	c.	hardware, software, and people						
	d.	hardware, software, people, policies, and procedures						

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- 7. Which of the following is a good computer security practice?
  - a. Authenticate Network Users
  - b. Back up Critical Information
  - c. Using firewall
  - d. All of the above
- 8. A strong password:
  - a. does not contain your user name, real name, or company name.
  - b. can be your name.
  - c. a complete word and doesn't contain any other characters such as numbers and symbols.
  - d. never needs to change.
- 9. Boot sector viruse targets:
  - a. boot sector/Master Boot Record (MBR)
  - b. Microsoft Word
  - c. RAM
  - d. None of the above
- 10. Common biometric schemes include:
  - a. Voice recognition
  - b. Fingerprints
  - c. Face scanning and recognition
  - d. All of the above