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[88 & A-23]

SARDAR PATEL UNIVERSITY

M. Sc. (INFORMATION TECHNOLOGY)

SEMESTER - III

PS03CINT03 (INFORMATION SECURITY)

24TH OCTOBER, 2016

Time : 02:00 p.m. to 5:00 p.m.

Marks : 70

Note : Answers of all the questions (including multiple choice questions) should be written in the provided answer book only.

Q-1 Pick up the most appropriate answer from the given alternatives and write in your answer book. (8)

- (1) Default mask of class B is _____
(a) 255.0.0.0 (b) 255.255.0.0
(c) 255.255.255.0 (d) 255.255.255.255
- (2) The purpose of the /etc/hosts file is providing a simple _____ to IP address resolution
(a) Hostname (b) Address
(c) Domain name (d) IP daemons
- (3) The Java language is _____
(a) Interpreted (b) Object Oriented
(c) Procedural (d) Both a & b
- (4) Packet Filtering Firewalls works at the _____ layer of the OSI Model
(a) Application (b) Network
(c) Physical (d) TCP
- (5) _____ is based on algorithm that scrambled information into unreadable form.
(a) Encryption (b) Decryption
(c) Data Hiding (d) None of these
- (6) The lowest thread falls into ITL class _____
(a) 1 (b) 9 (c) 0 (d) 4
- (7) Which of the command is used to Generate your unique public/secret key pair?
(a) Pgp kg (b) pgp ka (c) pgp kx (d) pgpkv
- (8) _____ is a collection of computers and user accounts that is managed by a central authority.
(a) Daemon (b) Domain (c) Service (d) Host

Q-2 Attempt the following: (ANY SEVEN) (14)

1. Explain Hostname and Subnet
2. What is audit trail? Explain last log in detail.
3. Discuss concept of IP Spoofing and IP Sniffing
4. Define: 1. Groups 2. Domains
5. Explain IIS security features in brief
6. Discuss in brief how Java differ from C++?
7. Write a note on Characteristics of Firewall.
8. What is Encryption? List the various encryption techniques.
9. Explain in brief about PGP Trust.

- Q-3 (a) What is Firewall? Explain different types of firewall in detail. [6]
(b) Write a note on RSA Algorithm in detail with example. [6]

OR

(b) Explain IDEA Algorithm in Detail

- Q-4 (a) What is Addressing Method? Explain address classes in detail [6]
(b) Discuss ifconfig and ping commands under unix [6]

OR

(b) Write a note on Windows NT Security Subsystem.

- Q-5 (a) What do you mean by PGP? What makes PGP "Pretty Good"? Write PGP key generation steps in brief. [6]
(b) Write a note on Virtual Private Network (VPN) [6]

OR

(b) Write a note on SATAN and Internet Threat Level (ITL)

- Q-6 (a) Explain Challenge & Response Logon model in detail. [6]
(b) Explain features of Java in detail [6]

OR

(b) Explain security provided in JAVA.

Wish You All The Best