

Note: Attempt all, marks distribution is uneven. No Negative marking in MCQs and MCQs may have more than one answer correct. No separate sheet will be provided. Write brief and to the point answers.

- 1 **Why Software/ OS patch updates are needed?** 1
Patches are required to install critical updates of OS to thwart against security threats
- 2 **What do you mean by a strong password?** 1
Password sufficiently long and having lower and upper case alphabets, digits, alphanumeric characters
- 3 **What is a dictionary based attack?** 1
In cryptanalysis and computer security, a dictionary attack is a technique for defeating a cipher or authentication mechanism by trying to determine its decryption key or passphrase by trying hundreds or sometimes millions of likely possibilities, such as words in a dictionary.
- 4 **What is Brute Force attack?** 1
A brute force attack is a trial-and-error method used to obtain information such as a user password or personal identification number (PIN). In a brute force attack, automated software is used to generate a large number of consecutive guesses as to the value of the desired data.
- 5 Encryption of text ensures... 0.5
(A) Confidentiality (B) Authentication (C) Integrity (D) All of the three
- 6 A backdoor on your computer that gives malicious users access to your system, possibly allowing confidential or personal information to be compromised is called as: 0.5
(A) Deadly Virus **(B) Trojan** (C) Worm (D) DoS
- 7 An active security attack in which one machine on the network masquerade as a different machine.. 0.5
(A) Spoofing (B) DoS (C) Reply (D) Sniffing
- 8 How many individual keys will be required in a symmetric key exchange among N users 0.5
(A) N (B) N^2 (C) $N(N-1)$ **(D) $N(N-1) / 2$**
- 9 'S' (Secure) is the inclusion of which protocol in HTTPS 1
(A) Secure Shell Layer (B) Secure Socket Layer **(C) Transport Layer Security** (D) Secure Session Layer
- 10 Unsolicited commercial messages are termed as: 0.5
(A) Virus (B) Worms **(C) SPAM** (D) All
- 11 How much approximate time will be taken by a machine that can try one million decryption in a second to brute force an 8 character long password? [Password is having only digits between 0-9] 0.5
(A) 10 Second **(B) 100 Seconds** (C) 1000 seconds (D) 10000 seconds
- 12 Name of the security protocol used in wireless networks is: 0.5
(A) Wi-Fi Security Access (B) Wireless Security Protocol **(C) Wireless Protected Access** (D) All the three
- 13 Which is not an active attack 0.5
(A) Masquerade (B) Replay **(C) Eavesdropping** (D) DoS
- 14 Access Control ensures 0.5
(A) Secure Access **(B) Role and Rule Management** (C) Security against DoS (D) Encryption
- 15 An attempt to make a machine or network resource unavailable to its intended users is called 0.5
(A) Non repudiation **(B) DoS** (C) Replay (D) Spoofing