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Paper Code : BCAC602 Cyber Security

UPID : 600107

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Answer *any ten* of the following :

[1 x 10 = 10]

- (I) A computer network permits sharing of Resources and _____
- (II) White-hat hackers are often referred to as _____ hackers
- (III) A **virus** _____ is a continuous sequence of bytes that is common for a certain malware sample
- (IV) _____ refer to LANs (Local Area Networks) that use high frequency radio waves instead of cables for connecting the devices
- (V) A _____, sometimes called a **passcode** is a memorized secret, typically a string of characters, usually used to confirm the identity of a user
- (VI) _____ is the technology that connects the machines and people within a site in a small area
- (VII) _____ attack takes place when one entity pretends to be different entity
- (VIII) This type of malware hides within or disguises itself as legitimate software. Identify the malware
- (IX) _____ is a networking hardware device that allows other Wi-Fi devices to connect to a wired network
- (X) A _____ is a contrived acronym for "Completely Automated Public Turing test to tell Computers and Humans Apart"
- (XI) _____ is the process of hiding or coding information so that only the person a message was intended for can read it.
- (XII) Traffic Analysis is a type of _____ attack

Group-B (Short Answer Type Question)

Answer *any three* of the following :

[5 x 3 = 15]

2. Discuss the various types of hackers you know. [5]
3. Discuss any 5 types of malware. [5]
4. What do you mean by FTP, HTTP and SMTP?. What is proxy server and its purpose? [5]
5. Discuss Brute-force attack [5]
6. Discuss the concept of cross-site scripting. [5]

Group-C (Long Answer Type Question)

Answer *any three* of the following :

[15 x 3 = 45]

7. Discuss the offences under IT Act 2000 with reference to sec 65,66,66a,66b,66c. [15]
8. Discuss the concept of IDS and IPS [15]
9. Discuss the terms wireless, wireless access point and cellular. [15]
10. (a) Discuss dictionary attacks and phishing. [10]
(b) What are the differences between packet filter firewalls and Application level gateways/proxy firewalls? [5]
11. Discuss the terms Data theft, Identity theft(including Password Theft),Email spoofing Vovourism, Cyber terrorism [15]

*** END OF PAPER ***