CYBER SECURITY
(INFO 3133)

Time Allotted : 2½ hrs **Full Marks : 60**

Figures out of the right margin indicate full marks.

Candidates are required to answer Group A and any 4 (four) from Group B to E, taking one from each group.

Candidates are required to give answer in their own words as far as practicable.

Group – A

1. Answer any twelve: **12 × 1 = 12**

Choose the correct alternative for the following

(i) An attack that damage a computer system with the intent to copy, steal or corrupt a device
(a) Techno-vandalism (b) Techno-crime
(c) Techno-sabotage (d) None of these.

(ii) An act of taking forcefully control of a website
(a) Internet Time theft (b) Web Jacking
(c) Spamming (d) Spying.

(iii) Which scanning expose existing weakness in the system?
(a) Port scanning (b) Vulnerability scanning
(c) Network scanning (d) All of these.

(iv) Which Bluetooth hacking tool test Bluetooth penetration?
(a) Blue Sniff (b) BlueScan
(c) BlueDiving (d) Car Whisperer.

(v) Which addressing technique is used by Cryptographic Security for Mobile devices?
(a) CGA (b) MGA (c) SGA (d) None of these.

(vi) Which virus changes its virus signature every time it spreads through the system?
(a) Program virus (b) Multipartite virus
(c) Polymorphic virus (d) None of these.

(vii) Which attack in DoS sends oversized ICMP packets?
(a) Flood attack (b) Nuke attack
(c) SYN attack (d) Ping of death attack.

(viii) Which method of phishing makes use of spam E-Mails bearing false corporate identification?
(a) Rod and Reel (b) Gillnet
(c) Dragnet (d) None of these.

(ix) Which Identity theft creates fake identity by combining personal information from multiple victims?
(a) Child ID theft (b) Synthetic Identity theft
(c) Identity Cloning (d) None of these.

(x) Name the process that adds geographical identification inside the metadata of videos, photographs etc.
(a) Skimming (b) Dumpster Diving
(c) Geotagging (d) None of these.

Fill in the blanks with the correct word

(xi) _____ creates valid credit card numbers and expiry dates.

(xii) _____ is a tool that can remove keylogger installed in system.

(xiii) In _____ method of phishing, phisher identifies prospective victim in advance.

(xiv) _____ hat hacker carries out research on cyber security in Universities.

(xv) _____ is a forensic tool that is used for analyzing volatile memory.

Group - B

2. (a) Differentiate between Cyberspace, Cybersquatting and Cyberterrorism. *[(CO1)(Analyse/IOCQ)]*
(b) Differentiate between Cybercrime, Techno-crime and Techno-vandalism. *[(CO1)(Analyse/IOCQ)]*
6 + 6 = 12

3. (a) Explain the phases involved in planning Cybercrime. *[(CO2)(Understand/LOCQ)]*
(b) Differentiate between Google Earth and Internet Archive. *[(CO2)(Analyse/IOCQ)]*
(c) Explain any five Active attack tools used in Cybercrime. *[(CO2)(Understand/LOCQ)]*
3 + 4 + 5 = 12

Group - C

4. (a) Compare between Registry settings for Mobile devices and Authentication Service Security. *[(CO3)(Understand/LOCQ)]*
(b) Explain Cryptographic Security for Mobile devices and LDAP security for Mobile devices. *[(CO3)(Understand/LOCQ)]*
(c) Define Financial Fraud. *[(CO3)(Remember/LOCQ)]*
5 + 5 + 2 = 12

5. (a) Explain all the stages of Network attack in detail. *[(CO4)(Understand/LOCQ)]*
(b) Differentiate between Blue Bugger, Blue Snarfer and Blue Diving. *[(CO3)(Analyse/IOCQ)]*
6 + 6 = 12

Group - D

6. (a) Explain Software keylogger, Hardware keylogger and Anti keylogger. *[(CO4)(Understand/LOCQ)]*
   (b) Discuss three advantages of Anti keylogger. *[(CO4)(Understand/LOCQ)]*
   (c) Differentiate between Hybrid password attack and Spyware. *[(CO4)(Analyse/IOCQ)]*

6 + 3 + 3 = 12

7. (a) Explain five tools used to launch DoS attack. *[(CO5)(Understand/LOCQ)]*
   (b) Discuss any five countermeasures against DoS attack. *[(CO5)(Understand/LOCQ)]*
   (c) Define PDoS attack. *[(CO5)(Remember/LOCQ)]*

5 + 5 + 2 = 12

Group - E

8. (a) Differentiate between Dragnet and Gillnet. *[(CO6)(Analyse/IOCQ)]*
   (b) Differentiate between Rod&Reel and Lobsterpot. *[(CO6)(Analyse/IOCQ)]*
   (c) Define Spambot. *[(CO6)(Understand/LOCQ)]*

5 + 5 + 2 = 12

9. (a) Differentiate between Digital Forensic Framework and CAINE. *[(CO6)(Analyse/IOCQ)]*
   (b) Differentiate between EnCase and Registry Recon. *[(CO6)(Analyse/IOCQ)]*
   (c) Differentiate between XRY and Bulk Extractor. *[(CO6)(Analyse/IOCQ)]*

4 + 4 + 4 = 12

Cognition Level	LOCQ	IOCQ	HOCQ
Percentage distribution	51.04	48.96	0