

END TERM EXAMINATION**THIRD SEMESTER [BCA] DECEMBER 2024****Paper Code: BCAT-213****Subject: Cyber Security****(BATCH 2021 ONWARDS)****Time: 03 Hours****Maximum Marks: 60****Note: Attempt five questions in all including Q. no. 1 which is compulsory.****Select one question from each unit****Q1 Answer the following (Any Five): (5x4=20)**

- ~~(a)~~ Explain different password cracking techniques.
- ~~(b)~~ What are Command and Control (C & C) needs of a botnet? Discuss.
- ~~(c)~~ Write brief notes on - cyber bullying, firewall, & RFC2822
- ~~(d)~~ Distinguish between user authentication and user authorization.
- ~~(e)~~ Explain the rules of evidence applicable to digital forensics.
- ~~(f)~~ Elucidate the basic security standards required for HTTP applications.
- ~~(g)~~ Explain some common types of cybercrimes.
- ~~(h)~~ Discuss the need for cyber forensics.

UNIT-I

~~Q2~~ What is the concept of layering approach to cyber security? Explain the different layers of cyber security. **(10)**

- Q3**
- (a) What are the major categories of cybercrime? Write a brief note on each of them. **(5)**
 - (b) Discuss the security vulnerabilities on a cloud computing environment **(5)**

UNIT-II

- Q4**
- ~~(a)~~ Explain major cybercrime attacks that can happen on mobile phones? Write a brief note on preventive measures to avoid these attacks. **(5)**
 - ~~(b)~~ Distinguish between DOS attack and DDOS attack. **(5)**
- Q5**
- (a) What is phishing? Explain the working of a standard phishing attack. **(5)**
 - (b) Explain the benefits of using key loggers. What is the purpose of steganography in cyber security, explain. **(5)**

UNIT-III

- Q6**
- ~~(a)~~ Explain concept of symmetric key cryptography in information security. **(5)**
 - ~~(b)~~ Write a note on i) End-to-End encryption and ii) Digital signature. **(5)**
- Q7**
- (a) Discuss some major web application security risks. **(5)**
 - (b) Explain the term spoofing in the context of email security. What are the objectives of Identity Access Management? **(5)**

P.T.O.

UNIT-IV

~~Q8~~ Define cyber forensics. Explain the life cycle of digital forensics. (10)

Q9 (a) Explain the five general rules of digital evidence. (5)

(b) Write notes on **(any two)**: (5)

i) Digital forensic investigation tool

ii) Need for cyber forensics

iii) Process of computer forensics

<https://www.ggsipuonline.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से