

**Winter Examination Oct/Nov 2023**

Subject Name: B.C.A. (CBCS)\_88234\_88660 - IT Security\_27.10.2023\_02.30 PM To 05.30 PM

Subject Code: 88234

Day and Date: - Friday, 27-10-2023

Total Marks: 70

Time: - 02:30 pm to 05:30 pm

**Instructions.:**

1) Figures to the right indicate full marks

**Special Instruction.:**

Q1. and Q.6 are compulsory ,Attempt any 3 from Q.2 to Q.5.

**Q.1. A) Choose correct alternative for following questions.**

**[20]**

**10 Marks**

1. Which of the following is considered as the unsolicited commercial email ?

a) Virus b) Malware c) Spam d) All of these

2. What is the purpose of an IS audit ?

a) To prevent hardware failure  
b) To ensure software reliability  
c) To detect and correct security vulnerabilities  
d) To recover lost data

3. Which of the following is an example of a passive security attack ?

a) Phishing b) Spoofing c) Sniffing d) Denial of service attack

4. Which of these is an antivirus program type?

a) Kaspersky b) Quick heal c) Mcafee d) All of the mentioned

5. Which of the following is true about firewall ?

a) Firewalls are network-based security measures that control the flow of incoming and outgoing traffic  
b) A firewall is a program that encrypts all the programs that access the Internet.  
c) A firewall is a program that keeps other programs from using the network.  
d) Firewalls are interrupts that automatically disconnect from the internet when a threat appears

6. What are the major components of the intrusion detection system ?

a) Analysis Engine b) Event provider c) Alert Database d) All of the mentioned





7. Compromising confidential information comes under \_\_\_\_\_  
a) Bug b) Threat c) Vulnerability d) Attack

8. Which security measure helps in verifying the authenticity of digital documents ?

a) Antivirus software b) Intrusion detection system c) Cryptography d) Deception technology

9. Which of the following types of text would be transformed using the cipher algorithm ?

a) Transformed text b) Scalar text c) Complex text d) Plain text

10. Which of the following is not a valid cyber-crime under the IT Act 2000 ?

a) Hacking b) Data theft c) Email spamming d) Online fraud

B) Write a short answer of the following questions (Any Two)

10

Marks

1. Define IT security. Explain two types of active security attacks.

2. Define Cryptography. Explain different types of cryptography.

3. Explain need and significance of Deception Technology

Q.2. Explain the control measures and technologies used for IT security with [10] example.

Q.3. Explain the Significance and Challenges of IT Security. [10]

Q.4. Discuss the Physical and Logical assets in detail. [10]

Q.5. Explain the importance of information security dimensions: confidentiality, integrity, and availability. Give the example of how these dimensions are maintained in an IT system. [10]

Q.6. Write a short notes on (Any 4)

1. The IT Act 2000
2. Cyber security standards
3. Malicious Code
4. Cyber crime and investigation
5. Digital signature and certificate
6. DoS attack

[20]

