

#21542 -

FALL2122CAT1_VL2021220103901_CSE3501_SEP21_LAVANYA K

Instructions

Basic Instructions

1. You can freely navigate between different questions forward and backward using **Next** and **Previous** buttons
2. **Finish** button will be enabled only towards the end of the exam.

Instructions for DESCRIPTIVE questions requiring SCAN & UPLOAD

1. Make sure to upload your **scans immediately after you answer** every question. Do NOT wait till the end to **avoid panic at the end**.
2. The exam time is inclusive of time for scanning & uploading answers.
3. If using **laptop + mobile** for the exam, click on **Open Test** on laptop and click on **Scan & Upload** on mobile.
4. If using **laptop + mobile** for the exam, when scanning and uploading from mobile, ensure that the correct question is open on the laptop.
5. When clicking on Camera button on a smart phone for scanning and uploading, you have 2 camera applications available to scan the answer: your phone's **native camera** and an alternative Low Memory Camera. Click on the **Low Memory Camera** in case your browser shows an error due to low memory.

1. Question 1

10 marks per question

1 display questions

1 maximum answerable

Q1 (188280)

Scan and/or Upload

10 marks

Medium

CO1

1. Assume that there is an attacker "H" wants to enter into the network of an enterprise "XYZ". He tried multiple attempts to intrude into "XYZ" network and failed in all attempts because of strong IDPS implementation. So, he targeted a random employee (Say "A") and eavesdropped all his web activity for one month. Later "H" found that "A" uses <http://www.cat1.exam.in> for more than thrice per day. Based on that finding, "H" deceived the "XYZ" network and intruded comfortably as well as did the desired damage in that network.

By considering the above scenario, what is your view on the following question? What type of virus attack the above scenarios represent? How do you say?

Q2 (188281)

Scan and/or Upload

10 marks

Medium

CO1

1. Two different offices on campus are working to straighten out an error in an employee's bank account due to a direct deposit mistake. Office #1 emails the correct account and deposit information to office #2, which promptly fixes the problem. The employee confirms with the bank that everything has, indeed, been straightened out.

- i. What are the possible network attacks? [2.5]
- ii. List out the challenges identified in given scenario? [2.5]
- iii. What objectives to be ensured for data security? [2.5]
- iv. What techniques to be deployed to ensure security? [2.5]

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2. Question 2

10 marks per question

1 display questions

1 maximum answerable

Q1 (188282)

Scan and/or Upload

10 marks

Easy

CO1

2. Justify the following statement-“A vulnerability assessment system, will look at the network and pinpoint the weaknesses that need to be fixed/patched – before they ever get breached”. Also write down about its classification, types of assessment, phases and types of tools.

Q2 (188283)

Scan and/or Upload

10 marks

Easy

CO1

[5+5]

2. Generalize the principles of antivirus configuration and user end steps for virus protection.

List out the difference between intrusion detection and prevention systems. Also discuss about its variants

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3. Question 3

10 marks per question

1 display questions

1 maximum answerable

Q1 (188284)

Scan and/or Upload

10 marks

Easy

CO2

3. Write short notes on

- Unified Threat Management [3]
- Network Access Control [3]
- Proxy Server-Network Load Balancer [4]

Q2 (188285)

Scan and/or Upload

10 marks

Easy

CO2

3. Write short notes on

- Network Address Translator [3]
- Virtual Private Networks [3]
- Blatant Spam Blocking, Bulk Email filter, Null Sender Disposition [4]

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