OBE December 2021

Date and time of Exam :- 15th Dec. 2021, 9:00 AM

Examination Roll Number :- 19234757006

Name of Program :- Master of Computer Application

Semester: - I

Unique Paper Code (UPC) 3- 223402501

Title of Paper :- Cyber Security

Name of the Dept. :- Dept. of Computer Science

Email-ID :- anubhav. mcalq. du@gnail. com

Mobile No. 3- 9044490197

No. of Pages used: - 4

PAGE HOLD FOR THE COM 19234757006 (6). (a). o Some sites (eg-Yahoo) ask the went to view on image containing some text and enter the characters seen of there on the screen as an added level of authentication. It's not a hard test. In fact, that's the point for the user, the test should be simple and straight-forward. But for a computer the test should be dlmost impossible to Solve. This Sort of test is a CAPTCHA, an acronyment that stands for Completely Automated Public Twing Test to tell Computer and Human About They're also known as a type of Human Interaction Proof (HIP). If the user's letters match the ones in the distorted image, you pass the test. We need such a test because of the people who want to exploit weaknesses in the Computer running the website. While these Individuals make up a minority of all the people on the internet, their actions can roy example, a free email service might get bombarded by account request from an automated program.

The EAPTCHA test helps

Polentify which users are real human being and which ones are computer program. affects millions of users and website. For example, a free email service

a general rens

o Two-factor authentication (two-way authentication), also referred to as 2FA is a

Security process that combines two security components to properly Edentify an Endividual looking to carry out a table - usually when logging into a secure account or performing a specific action within a secure account. For exampleyour bank may send an approval code to your phone when you send a large money transfer.

It doesn't prove that
there's a human completing this action.

Infact, two-factor authentication is quite easy to bypas with bot automation. CAPTCHA is a test to provide human verification and a good CAPTCHA will prevent bots from automating such actions. in 2FA is not a valid replacement for CAPTCHA, especially when privacy consersion, human odentification are ALL LUH priorities, was told

(b) The term Industry 4.0 was first mentioned at the Hannover table trade fair in 2011. There were several Industry iterations before Industry 4.0. The first Industrial revolution for industry 1.0 was being a ground the development of Countrate

built around the development of steam water based engines. Industry 2.0 gave rise to

the light bulb, telephone, photograph and internal combustion engine. Starting in the 1980's, Industry 3.0

Saw analog technology gave away to

digital technology. During this time period

often referred to as the digital revolution end system to SCADA enolpoints. The findustry 3.0 was a digital revolution, then I industry 4.0 Should be called a quantum leap. By adding embedded system, artificial intelligence and the TOT, Industry 4.0 is pursuing forward at breakneck speed. lastly its impossible to discuss industry 4.0 without mentioning IoT. ToT will have a large impact on both AMI and distribution outsmation systems, thanks to the rise of smart home systems such as Amazon Echo & Choogle Home. The baseline

security measures that must be employed in SCADA include the following:

(1). Map all your avoient System - document everywhere your system connects to on the Internal network.



- 2). Implement monitoring of deletion systems -SCADA Systems without monitoring and detection system in place are sulnerable to Cyber-attacks and malware.
- (3). Have Security network protocols
- (4). Harden the planneter for preventing unauthorized access or changes to over system.
- (6). Ensure that critical components were redundant of were on redundant networks.