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**Presidency University**

**Bengaluru**

**School of Computer Science and Engineering**

**MAKE UP EXAMINATION JUlY-2024**

**Make Up Exam**: July 2024

**Course Code**: CSE2040

**Course Name**: Cyber Threats for IOT and Cloud

**Program & Sem**: B.Tech – CSE, 6th Semester

**Date**: 03-July-2024

**Time**: 9.30am – 12.30pm

**Max Marks**: 100

**Weightage**: 50%

**Weightage**: 50 %

**Instructions**

1. *Read all questions carefully and answer accordingly.*
2. *The question paper consists of 3 parts.*
3. *Do not write anything on the question paper other than roll number.*

**Part A**

**Answer any 4 Questions. (4Q x 5M= 20M)**

1. Summarize the different characteristics and challenges of IOT. [BL-2] (CO-1)
2. Explain the four industrial resolutions as Industry 1.0 through Industry 4.0 [BL-1] (CO-1)
3. Describe the IoT enabling Technologies & M2M Communication with suitable explanations. [BL-1] (CO-1)
4. Explain the simplified IoT Architecture with a neat diagram. [BL-1] (CO-1)
5. **Describe the main cloud service models of an IaaS, Paas, SaaS based solution for cloud computing and explain in detail.** [BL-1] (CO-1)
6. Discuss the following in detail a) Sensors and Actuators. b) Connecting Smart Objects [BL-1] (CO-1)

**Part B**

**Answer any 4 Questions. (4Qx10M=40M)**

1. List out different types of password attacks and explain in detail. [BL-1 & 2] (CO-2)
2. Illustrate about CIA Triad and Distinguish between Software attacks and Hardware attacks. [BL -2 &] (CO-2)
3. List out the features of firewall? Write the steps in providing network security and to set Firewall Security in windows. [BL-1 & 2] (CO-2)
4. Distinguish about various types of web threats for Organizations. [BL -4]. (CO-2)
5. Explain, Cybercrime in Mobile and Wireless Devices? And give a note on Attacks on Mobile/Cell Phones. [BL -1] (CO-2)
6. **Write short notes on i) Cyber Crime, ii) Cyber terrorism, iii) Cyber Espionage iv) Cyber Investigation** [BL -1]. (CO-2)

**Part C**

**Answer any 2 Questions. (2Q x 20M=40M)**

1. Describe the best practices for ensuring the security of IOT communication protocols. [BL-1] (CO-3)
2. Explain some common IOT interfaces used for device connectivity. [BL-1] (CO-4)
3. **Explain the Security guidelines for IoT and Managing IoT Security Threats.** [BL-1] (CO-3)
4. **Differentiate between Botnets, Denial of service, Man-in-the-Middle, Identity and data theft explain each in detail.** [BL-1] (CO-4)

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