



# CIRSM

CHARTERED INSTITUTE OF RISK & SECURITY MANAGEMENT

## PROFESSIONAL GRADUATE DIPLOMA IN RISK AND SECURITY MANAGEMENT

### NOVEMBER 2020 ASSIGNMENT QUESTIONS

#### Level 1

#### INFORMATION TECHNOLOGY AND CYBER SECURITY

COURSE CODE: RSM 106

#### INSTRUCTIONS TO CANDIDATE

1. This question paper comprises of **2** printed pages.
2. The assignment is marked out of **75 marks**.
3. **ANSWER ALL QUESTIONS**
4. Start each question on a new page.
5. The assignment is due on the 9<sup>th</sup> of November 2020 and shall be uploaded on the CIRSM Student online learning portal website: [www.cirsm.com](http://www.cirsm.com).
6. Students should subscribe to the subjects they seek to write examinations on the website portal between the 18<sup>th</sup> of October 2020-8<sup>th</sup> of November 2020.
7. Students are expected **NOT** to exceed **4 pages** per question.
8. Students must submit the assignments in Microsoft Word format.
9. **Assignments expire after every examination sitting.**

**You are reminded of the need for good English and clear presentation in your answers.**

**NB: PLAGIARISM AND COPYING IS AN ACADEMIC OFFENSE THAT MAY RESULT IN DISCIPLINARY ACTION. ALL PAPERS WILL BE SCANNED BY ANTI-PLAGIARISM SOFTWARE.**

#### QUESTION 1

The outbreak of the COVID 19 pandemic has resulted in increased use of online methods in many fields including business and education sectors. People are now holding business and social meetings using video conferencing and other online platforms. Students are now learning in “virtual classrooms” and writing online examinations. However, a major challenge is that the risks of cyber-attacks have also increased dramatically during this era.

In light of the above reflection, you are required to:

- a) Provide a summary using the following guidelines: **Name of any country of your choice, Online market conditions existing** (for example, liberalised, controlled), **Name of any organisation of your choice, Management Information System being employed** (for



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example, Enterprise Resource Planning, School Information Management System), **Size of the organisation** (in terms of turnover or number of employees). **[5 MARKS]**

- b) For the organisation identified in question 1a) above, prepare a paper on any **FIVE** common cyber security attacks that the management need to be aware of when using online environments. Your paper should also include security measures that may be implemented to prevent the cyber-attacks. **[20 MARKS]**

### **QUESTION 2**

For the country identified in question 1a) above, prepare a paper on whether the current legal framework is adequate to address the increase in computer and cyber-related crimes.

**[25 MARKS]**

### **QUESTION 3**

- a) Identify and explain any **THREE** data hiding techniques you are familiar with. **[15 MARKS]**
- b) Explain how the identified data hiding techniques may be used in the organisation identified in question 1a) above as part of its cyber security measures. **[10 MARKS]**

**\*\*\*END OF ASSIGNMENT QUESTIONS\*\*\***