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**UTHM**  
Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAM  
SEMESTER II  
SESSION 2018/2019**

COURSE NAME : CRITICAL INFRASTRUCTURE  
SECURITY  
COURSE CODE : BIS 33303  
PROGRAMME CODE : BIS  
EXAMINATION DATE : JUNE / JULY 2019  
DURATION : 3 HOURS  
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **THREE (3) PAGES**

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**TERBUKA**

**SECTION A**

- Q1**
- (a) What is the purpose of Global Forum on Cyber Expertise (GFCE)?  
(2 marks)
  - (b) Differentiate between Critical Information Infrastructure Protection (CIIP) and Critical Information Infrastructure Resilience (CIIR).  
(4 marks)
  - (c) Discuss whether you agree that Malaysia should have own nuclear plant for energy. Support your argument by giving **TWO (2)** practical reasons.  
(4 marks)
  - (d) Map each CIIP sectors in Malaysia with **ONE (1)** stakeholder for each sector.  
(10 marks)
  - (e) List **THREE (3)** categories of stakeholders that should involve in the CIIP sectors.  
(3 marks)
  - (f) Discuss why all stakeholders should be involved in CIIP by giving **TWO (2)** reasons.  
(4 marks)
  - (g) Compare criticality scale of 5 as compared to 1.  
(4 marks)
  - (h) Describe “Digital Pearl Harbor” (DPH).  
(5 marks)
  - (i) Discuss **ONE (1)** advantage and **ONE (1)** disadvantage of DPH.  
(10 marks)
  - (j) Discuss **TWO (2)** importance of X-MAYA in Malaysia.  
(10 marks)

- (k) Discuss on **THREE (3)** real events that have caused disruptions on critical infrastructure.

(10 marks)

**Q2** You are the person in charge of the handling the CIIP in your organization.

- (a) Differentiate between dependency and interdependency.

(4 marks)

- (b) Identify **ONE (1)** example of dependencies on any CIIP sectors.

(4 marks)

- (c) Illustrate **THREE (3)** interdependencies using dependency diagram.

(10 marks)

**Q3** There are many threats affecting CIIP. Changes in the weather patterns can cause lightning strike which may affect power-grid CI. Analyze another **FOUR (4)** threats that could affect CIIP.

(16 marks)

- END OF QUESTIONS -