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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION  
SEMESTER II  
SESSION 2021/2022**

COURSE NAME : STRATEGIC FACILITIES  
MANAGEMENT

COURSE CODE : BPF 32703

PROGRAMME CODE : BPD

EXAMINATION DATE : JULY 2022

DURATION : 3 HOURS

INSTRUCTION : 1. ANSWERS ALL QUESTIONS.  
2. THIS FINAL EXAMINATION  
IS CONDUCTED VIA  
**CLOSEDBOOK.**  
3. STUDENTS ARE  
**PROHIBITED** TO CONSULT  
THEIR OWN MATERIAL OR  
ANY EXTERNAL RESOURCES  
DURING THE EXAMINATION  
CONDUCTED VIA CLOSED  
BOOK

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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TERDUKA

**Q1** Successful FM delivers in part through a complex set of relationships which is probably wider than that of any other organizational function. The primary relationship in FM is between the Demand Organization (DO) and the FM provider. The DO is defined in ISO41011 as an entity which has a need and the authority to incur costs to have requirements met.

(a) Define the following terminologies based on the above-mentioned context.

(i) Facilities Manager (3 marks)

(ii) FM Service Provider (3 marks)

(iii) FM Stakeholders (4 marks)

(b) Tactical FM is described as monitoring and management of facility performance. They differ from strategies activities in that the direct link to corporate goal is absent, although the overall objective of improving quality, reducing cost and minimizing risk remains.

In the context of Tactical FM, discuss with example the following component of Tactical FM based on the above- mentioned paradigm.

(i) Quality strategy

(ii) Cost measurement strategy

(iii) Risk registration strategy

(15 marks)

**Q2** Bali provides a unique community for digital nomads that does not exist in this form anywhere else in the world. The island is a magnet for freelancers and those who took the chance to leave traditional society in favour of a life of spontaneity and independence. Due to the rise of digital nomads in Bali, Indonesia government grants digital nomads in Bali with 5-year visas and face no taxation on foreign-sourced income.

(a) The above viewpoint offers a simplified portrayal of nomadic, remote workers, particularly in regard to the spatial dynamics of their work.

(i) Explain Digital Nomads.

(5 marks)

(ii) Analyse what countries can do to capitalise Digital Nomadism.

(10 marks)

(b) Every facilities manager wishes to reduce property cost. Making better use of existing space is the easiest way to put off property expansion.

Discuss **FIVE (5)** space saving tips in the context of space saving management in FM.

(10 marks)

**Q3** Renewable energy is energy that has been derived from earth's natural resources that are not finite or exhaustible, such as wind and sunlight. Renewable energy is an alternative to the traditional energy that relies on fossil fuels, and it tends to be much less harmful to the environment.

(a) Relate **FIVE (5)** types of renewable energy together with its benefit and limitation.

(15 marks)

(b) Over the last 20 years, solar energy has emerged to become an attractive source of energy, especially the photovoltaics (PV) solar cell.

Outline **FIVE (5)** advantages and disadvantages applying solar energy to UTHM.

(10 marks)

**Q4** Construction 4.0 is defined as the process to implement modern technology in order to encourage the digitisation of the construction industry and its supply chain. Whilst, it also gives a definition of the transformation of the construction industry towards the Fourth Industrial Revolution, from automated production to a greater level of digitalization.

- (a) Describe **FIVE (5)** Industrial Revolution 4.0 technologies as published in the Construction 4.0 Strategic Plan 2021-2025 for Malaysia.

(10 marks)

- (b) Access **FIVE (5)** propositions for Build Back Better reconstruction after any disaster events.

(15 marks)

**-END OF QUESTIONS-**