



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
(TAKE HOME)
SEMESTER I
SESSION 2020/2021**

COURSE NAME : SUSTAINABLE BUILT ENVIRONMENT
COURSE CODE : BWJ 32202
PROGRAMME CODE : BWW
EXAMINATION DATE : JANUARY/FEBRUARY 2021
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS
OPEN BOOK EXAMINATION

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

- Q1** Figure Q1 shows a tweet by former US President, Donald J. Trump in 2014, claiming the climate crisis as a hoax. Do you think this is true? Provide **TWO (2)** justifications of your answer with empirical evidence. You can mention the organization responsible for your data and evidence. (15 marks)
- Q2** Water quality is the description of the chemical, physical and biological characteristics of water. Imagine yourself working with the Department of Environment (DOE). You are tasked to monitor the water quality of Sungai Muar through chemical monitoring. What are the necessary parameters that need to be measured and how should you present the results? (15 marks)
- Q3** According to the Sustainable Cities Index 2015, Frankfurt, Germany is the most sustainable city in the world while the least sustainable city is New Delhi, India. Differentiate these two cities based on the various aspects of sustainability that you know. (15 marks)
- Q4** You were fired from the Department of Environment. Now you decided to pursue your dream career as an architect. Your first task is to design a Sustainable Green Building for Pagoh Education Hub that will be used as a student living area. Demonstrate how you would design this building focusing on the implementation of sustainable energy consumption and passive design. (15 marks)
- Q5** Cities in the future will include urban forest as part of their city planning to improve the quality of life for its citizen. Deduce the relationship between urban forests and better quality of life. (20 marks)
- Q6** To solve the climate crisis, the world is turning to renewable sources of energy. However, these sources of energy are not without its challenges. State **TWO (2)** sources of renewable energy that you know and the location where it is currently implemented. Then, state **TWO (2)** advantages and **TWO (2)** disadvantages of each energy source. (20 marks)

– END OF QUESTIONS –

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Donald J. Trump
@realDonaldTrump

Follow

Snowing in Texas and Louisiana, record setting freezing temperatures throughout the country and beyond. Global warming is an expensive hoax!

RETWEETS
570

LIKES
447



10:27 PM - 28 Jan 2014

570 447

Figure Q1

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