

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME

SUSTAINABLE CONSTRUCTION

COURSE CODE

: BPD 35103

PROGRAMME CODE : BPC

:

EXAMINATION DATE : JULY 2022

DURATION

: 3 HOURS

INSTRUCTION

1.ANSWER ALL QUESTIONS

2.THIS

FINAL EXAMINATION

IS

CONDUCTED VIA CLOSED BOOK.

3.STUDENTS ARE PROHIBITED TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING EXAMINATION CONDUCTED VIA CLOSED

BOOK

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES



Q1 (a) There are six principles in contractor's code of ethics to ensure that all contractors carry out their construction activities with integrity in order to produce high construction quality.

Discuss the first principle of ethical code for contractors that influence the quality of construction.

(10 marks)

(b) Green Building is referring to a sustainable building that is designed, built, renovated, operated, or re-used in an ecological and resource-efficient manner.

Outline THREE (3) benefits of implementing green building practice.

(15 marks)

Q2 Energy consumption is an important criterion in the rating of green buildings.

Analyse SIX (6) elements in the assessment of energy consumption to enable a building to be rated in terms of energy efficiency for the Green Building Index (GBI).

(25 marks)

Q3 Water efficiency is referring to reducing water wastage by measuring the amount of water required for a particular purpose and the amount of water used or delivered.

Compare FIVE (5) elements in water efficiency for Green Building Index (GBI) with another green rating tool from another country.

(25 marks)

Q4 With the global population expected to reach 9.8 billion by 2050, the way that people interact with buildings, infrastructure and cities will change. Through innovation, we can create a sustainable built environment for all.

Propose FIVE (5) key elements of innovative design and initiatives that meet the objectives of Green Building Index (GBI) by an architect.

(25 marks)

-END OF QUESTIONS -

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