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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2012/2013**

COURSE NAME : BUILDING TECHNOLOGY FOR
HEALTH AND COMFORT

COURSE CODE : BPF 4093

PROGRAMME : 4 BPC

EXAMINATION DATE : JUNE 2013

DURATION : 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

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

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Q1 Green Building Index (GBI) was founded to drive initiative in building technology for health and comfort.

Relate the building technology for health and comfort in these GBI elements:

- (a) Energy Efficiency (6 marks)
- (b) Innovation (7 marks)
- (c) Sustainable Site Planning and Management (7 marks)

Q2 (a) Describe the problem of the Indoor Air Environment (IAE) in a building. (10 marks)

(b) There are five factors to be considered to construct a healthy building for inhabitant.

Interpret ALL factors.

(10 marks)

Q3 (a) Describe the concept of thermodynamic to design the building for health and comfort (6 marks)

(b) Relate the strategies for sustainability in the usage of building materials. (7 marks)

(c) Interpret the sustainability element in the design of wind flow for building. (7 marks)

- Q4**
- (a) Discuss the importance of legal aspects in building technology for health and comfort
(6 marks)
 - (b) Describe the functions of ventilation in the building technology for health and comfort.
(7 marks)
 - (c) Relate the sources of noise pollution with the design to eliminate them.
(7 marks)
- Q5** The concept of sustainable building incorporates and integrates a variety of strategies during the design, construction and operation of building projects. The use of green building materials and products represents one important strategy in the design of a building.
- (a) Interpret the concept of sustainable building
(6 marks)
 - (b) Discuss the importance of green building materials and products in building technology for health and comfort.
(7 marks)
 - (c) Relate the sustainability elements with the operation of a building.
(7 marks)

-END OF QUESTION-