



**UTHM**

Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2015/2016**

COURSE NAME : SUSTAINABLE CONSTRUCTION  
COURSE CODE : BPF 44103  
PROGRAMME : 4 BPC  
EXAMINATION DATE : DECEMBER 2015 / JANUARY 2016  
DURATION : 2 HOURS AND 30 MINUTES  
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **TWO (2)** PAGES

- Q1** ‘Green building focuses on increasing the efficiency of resource use – energy, water, and materials – while reducing building impact on human health and the environment during the building’s lifecycle, through better siting, design, construction, operation, maintenance and removal.’

*(GreenbuildingIndex Sdn. Bhd., 2013)*

Demonstrate the contributions of Energy Efficiency (EE) and Innovation (I) of Green Building Index (GBI) in GBI performance.

(25 marks)

- Q2** Outline **FIVE (5)** features of Sustainable Building Materials to achieve sustainable construction.

(25 marks)

- Q3** Occupational Safety and Health Act (1994) (OSHA 1994) provides the legislative framework to promote, stimulate and encourage high standards of safety and health at work. The aim is to promote safety and health awareness and establish effective safety organization and performance through self regulation schemes designed to suit the particular industry or organisation.

*(MDC Publishers Sdn Bhd, 2007)*

Demonstrate **FOUR (4)** main elements that mandatory in this act toward ‘self regulation’ among industry or organisation.

( 25 marks)

- Q4** (a) Discuss **THREE (3)** factors that influence the concentration of the indoor air pollutants in buildings and houses.

(15 marks)

- (b) Explain Tobacco Combustions and their common health effects to human within indoor environment.

(10 marks)

**-END OF QUESTIONS-**