



- 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 -**