



UNIVERSITI KUALA LUMPUR
INSTITUTE OF MEDICAL SCIENCE TECHNOLOGY

FINAL EXAMINATION
MARCH 2025 SEMESTER

COURSE CODE : HGB30203
COURSE TITLE : LAND USE AND HOUSING
PROGRAMME NAME : BACHELOR OF ENVIRONMENTAL HEALTH (HONS)
DATE : 01 JULY 2025
TIME : 2:00PM - 5:00PM
DURATION : 3 HOURS



INSTRUCTIONS TO CANDIDATES

1. Please read the instructions given in the question paper CAREFULLY.
2. This question paper is printed on both sides of the paper.
3. This question paper consist of ONE sections.
4. Section A consist of five questions. Answer FOUR (4) questions only.
5. Please write your answer on the answer booklet provided.
6. Please answer all questions in English only.
7. Refer to the attached Formula/ Appendies. *Tick if applicable*

THERE ARE 3 PAGES OF QUESTIONS INCLUDING THIS PAGE

SECTION A (Total: 100 marks)

Answer FOUR (4) questions.

Please use the answer booklet provided.

Question 1

Discuss the impact of using disinfectants such as phenyl and bleaching powder in toilets connected to septic tanks. Evaluate the biological and operational consequences and suggest alternatives to maintain hygiene without affecting the septic system.

(25 marks)

Question 2

Compare and contrast differential leveling and fly leveling in terms of purpose, accuracy, methodology, and typical use cases. Analyze which method is more suitable for preliminary site investigation in a large infrastructure project and why.

(25 marks)

Question 3

A new housing development is being constructed in an off-grid area. The developer seeks your advice on domestic services.

- (a) Identify and explain four (4) essential domestic services required for this project.
(12 marks)
- (b) Evaluate the advantages of installing LPG gas fires over electric heaters in this off-grid setting.
(8 marks)
- (c) Suggest one (1) building service related to energy or safety and justify its importance.
(5 marks)

Question 4

As an Environmental Health Officer, you are tasked with inspecting a residential building in a remote area that relies on a cistern system and rainwater harvesting.

(a) Describe how the cistern system operates and its suitability for remote locations.
(10 marks)

(b) Describe two methods of rainwater harvesting and discuss potential health risks associated with using rainwater for domestic purposes.
(15 marks)

Question 5

Develop a basic site plan outline for a mixed-use development.

(a) Sketch or describe site plan components.
(10 marks)

(b) Evaluate site suitability based on environmental, legal, and social factors.
(15 marks)

END OF EXAMINATION PAPER