



THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

SECOND SEMESTER EXAMINATIONS – 2021

CEME535- FINAL DISPOSAL/LAND FILLING IN DEVELOPING COUNTRIES

MASTER IN SOLID WASTE & RESOURCE MANAGEMENT

Wednesday 3rd NOVEMBER 2021 – 10:00 AM to 12 NOON

VENUE: C002 – CIVIL ENGINEERING DEPARTMENT

TIME ALLOWED: 2 HOURS

INSTRUCTIONS FOR STUDENTS:

- 1. WRITE YOUR NAME AND ID NUMBER CLEARLY ON THE FRONT PAGE OF THE ANSWER SHEET.**
- 2. All answers must be written on the answer booklet provided. No other written material will be accepted.**
- 3. Notes and handouts are not allowed. MOBILE PHONE is not allowed.**
- 4. Maximum Marks: 100.**
- 5. Answer any **FOUR** questions. All questions carry equal marks i.e. 25 marks.**
- 6. Number of pages is 2 including Cover page.**

Q1) Describe the following key terms used in municipal solid waste landfill design.

(a) Cover

(b) Leachate

(c) Gas control and recovery system

(d) Leachate collection system (e) Liner

Q2) Discuss the operating plans of sanitary landfill.

Q3) Explain about the landfill leachate treatment processes.

Q4) Describe about post-closure care of the landfill.

Q5) List the landfill site preparation and construction tips.