



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2022/2023**

COURSE NAME : ENVIRONMENT AND CONSERVATION

COURSE CODE : BNA 31402

PROGRAMME CODE : BNA

EXAMINATION DATE : JULY/AUGUST 2023

DURATION : 2 HOURS

INSTRUCTION :
1. ANSWER **ALL** QUESTIONS
2. THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK**
3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

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

TERBUKA

CONFIDENTIAL

- Q1**
- (a)
 - (i) Name **ONE (1)** example of land structure failure happened in Malaysia. Then, discuss on the causes and impacts of this environmental issue. (6 marks)
 - (ii) Analyze the measures that have been taken to prevent similar incidents from occurring in the future. (3 marks)
 - (b)
 - (i) Explain the climate change impacts on agriculture and water resources in Malaysia (8 marks)
 - (ii) Provide **TWO (2)** specific examples of initiatives or programs that are being implemented to address these challenges for each of the impacted sectors. (8 marks)
- Q2**
- (a) Define sustainable resources. (2 marks)
 - (b)
 - (i) Evaluate **THREE (3)** good engineering designs that have been implemented worldwide to conserve the environment by highlighting the specific ways in which they help to conserve the environment and reduce the impact of human activities on natural resources. (15 marks)
 - (ii) Discuss any limitations or potential drawbacks of each design and consider the wider implications of their implementation. (6 marks)
 - (iii) Compare the three designs in terms of their overall effectiveness in promoting sustainable practices and conserving natural resources. (2 marks)

TERBUKA

- Q3** (a) Organize **THREE (3)** plans to address the challenges faced by mangrove ecosystems in Malaysia. (9 marks)
- (b) As a technologist graduate candidate with an interest in environmental sustainability, propose a waste-to-wealth project that you would like to venture into in the future. In the proposal, discuss the below:
- (i) Technical aspects of the project, such as the engineering design, materials and processes involved. (6 marks)
- (ii) Its contribution to reducing waste and promoting circular economy. (5 marks)
- (iii) Challenges that may need to be addressed during its implementation. (5 marks)
- Q4** (a) Suggest **FOUR (4)** examples of technologies and their applications in disaster response. Explain on how these technologies help in mitigating the effects of disasters and improving disaster response. (10 marks)
- (b) Assume you are a manager in the construction industry and your company wants to prioritize environmental sustainability. Your company will look at new green technologies that can be used to fulfill your aim. Choose and describe **THREE (3)** best-known green technologies in construction industry that suit environmental sustainability. Explain the reasons for each of your choice. (15 marks)

- END OF QUESTIONS -

TERBUKA