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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

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

**COURSE NAME : WATER RESOURCES AND TREATMENT**

**COURSE CODE : BPF36003/BPF41003**

**PROGRAMME CODE : BPC**

**EXAMINATION DATE : JULY /AUGUST 2023**

**DURATION : 3 HOURS**

**INSTRUCTIONS**

- 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 TWO (2) PAGES**

**TERBUKA**

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- Q1** Water resources management is a significant challenge in Malaysia, given the country's limited freshwater resources and the growing demand for water due to population growth, urbanization, and industrialization.
- (a) Discuss **FIVE (5)** main challenges facing water resources management in Malaysia.  
(10 marks)
- (b) Analyse **FIVE (5)** impacts of climate change on water resources in Malaysia.  
(15 marks)
- Q2** In Malaysia, water quality is regulated by the Department of Environment (DOE) under the Environmental Quality Act 1974 and the National Water Services Commission (SPAN) under the Water Services Industry Act 2006. These agencies set standards for water quality to protect human health and the environment.
- (a) Examine the water quality standards in Malaysia based on the intended use of the water.  
(12 marks)
- (b) Illustrate the typical treatment process for drinking water in Malaysia.  
(17 marks)
- Q3** Drinking clean water is one of the best practices for keeping the body healthy. The party that manages the water supply also guarantees that the supplied water is safe to use. But there are many who are still doubtful about the quality of the water supply.
- (a) Discuss **FOUR (4)** methods that can be done to test the cleanliness and quality of the water supplied.  
(8 marks)
- (b) Categorize the potential impacts of water pollution on human health in Malaysia, specifically in terms of causing various waterborne diseases.  
(18 marks)
- Q4** Water supply in Malaysia is a complex issue that affects both urban and rural areas.
- Analyse **FIVE (5)** key issues related to water supply in Malaysia  
(20 marks)

-END OF QUESTIONS -