



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020**

COURSE NAME : WATER RESOURCES AND TREATMENT

COURSE CODE : BPF 41003

PROGRAMME CODE : BPC

EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020

DURATION : 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

TERBUKA CONFIDENTIAL

- Q1** Water is a natural resources. The pure water has created a variety of ecosystems where living and non-living beings are connected in complex interdependencies. *Source: Ang (2015)*
- (a) Discuss with examples **FIVE (5)** main water resources available in Malaysia. (10 marks)
- (b) Describe **FIVE (5)** categories of pollutants that cause water pollution problems in Malaysia. (15 marks)
- Q2** (a) Explain the functions of a water piping system for a building. (10 marks)
- (b) Explain with the aid of sketches, the indoor water supply system and the sanitary system for double-storey building. (15 marks)
- Q3** (a) The process of water treatment is different from one source to another. Illustrate processes involved in the initial processing process. (15 marks)
- (b) Disinfection is the final process in raw water treatment while, chlorine is the most commonly used chemical for disinfection. Discuss **FIVE (5)** needs for chlorine dosage. (10 marks)
- Q4** (a) Discuss the activity that acts as a function of drinking water to ensure that the quality of drinking water does not have any adverse effect on health. (10 marks)
- (b) Analyze the factors that need to be considered when choosing a water sources to ensure that the public service is not affected. (15 marks)

- END OF QUESTIONS -