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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAM
SEMESTER II
SESSION 2018/2019**

COURSE NAME : ENGINEERING TECHNOLOGIST AND SOCIETY

COURSE CODE : BNP 30302

PROGRAMME CODE : BNA/BNB/BNC

EXAMINATION DATE : JUNE / JULY 2019

DURATION : 2 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

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

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- Q1** (a) The Accreditation Board for Engineering and Technology (ABET) and The National Society of Professional Engineers (NSPE) have described the difference between engineering and engineering technology. Explain **FIVE (5)** contributions of engineering technology in early years.
(10 marks)
- (b) Describe **ONE (1)** importance of Code of Ethics. Differentiate **TWO (2)** advantages and **TWO (2)** disadvantages of Code of Ethics.
(5 marks)
- (c) Discuss **FIVE (5)** ethical values in which engineering technologist are expected to uphold in developing and improving people's lifestyle all around the world.
(10 marks)
- Q2** (a) Define the meaning of science, engineering, and technology.
(3 marks)
- (b) Explain the role of engineering technologist in government and private sector.
(10 marks)
- (c) The world civilisation has evolved from an agriculture based society to an industrialised society. Demonstrate **FOUR (4)** social effects of the Industrial Revolution. Discuss the reasons for them.
(12 marks)
- Q3** Career as engineering technologist is very important to nation for application of science and technology towards improving the environment and enhancing quality of human life.
- (a) Discuss technologist roles toward improving of environmental quality?
(4 marks)
- (b) Under Environmental Quality Act 1974, there are a few regulations involved. Explain what are the purpose of this act and discuss how this act and its regulations can prevent environmental pollution in Malaysia.
(9 marks)

- (c) Describe the meaning of professionalism for technologist and exhibit **TWO (2)** characteristics of professionalism technologist.
(6 marks)
- (d) Differentiate between **THREE (3)** roles of engineering technologist and engineer.
(6 marks)
- Q4** Engineer Technologist plays an important role in the development of the country. They involve in both research and development, and ready for globalization.
- (a) Name and explain **THREE (3)** different types of production cycle with the aid of a diagram.
(6 marks)
- (b) You work as an Engineer Technologist for housing construction contractor. State and discuss **THREE (3)** roles you can contribute for the housing development project.
(9 marks)
- (c) Technology globalization is transforming not only the location and organization services, but also social and economic patterns. Explain and interpret **FIVE (5)** benefit of globalization of technology to human life.
(10 marks)

- END OF QUESTIONS -