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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2014/2015**

COURSE NAME : ENGINEERING TECHNOLOGIST AND SOCIETY
COURSE CODE : BNP 30302/BNQ 40102
PROGRAMME : BNB/BNN
EXAMINATION DATE : DECEMBER 2014 / JANUARY 2015
DURATION : 2 HOURS
INSTRUCTION : ANSWER ANY **FOUR (4)** QUESTIONS ONLY.

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

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Q1 Engineering technologist has evolved and developed as practical art and a profession over more than 50 centuries.

- (a) Explain the roles and development of engineering technology in society.
(4 marks)

- (b) Describe the important of Code of Ethics. Differentiate the advantages and disadvantages of Code of Ethics.
(5 marks)

- (c) Discuss how would a "builder" during the period of King Hammurabi be dealt with if the building he constructed collapses?
(5 marks)

- (d) List the great achievements of Egyptians, Greeks and Romans.
(6 marks)

- (e) Exhibit any contribution to science & technology by early civilisations in Malaysia.
(5 marks)

Q2 Engineering technologists have played an important part in developing and improving people's lifestyle all around the world.

- (a) Explain the role of engineering technologist in government and private sector.
(6 marks)

- (b) What is the implementation of technologist's development in society?
(6 marks)

- (c) Demonstrate the social effects of the Industrial Revolution. Discuss the reasons for them.
(8 marks)

- (d) What engineering technologist practices would you say contributed significantly to the modern 20th (and 21st) century lifestyle?
(5 marks)

- Q3** An important step in a career of engineering technologist is the achievement of a professional qualification.
- (a) Discuss why does the engineering technologist must aware on the environment and current issue?
(4 marks)
 - (b) Explain how an engineering technologist would be control? Why is such a law important?
(9 marks)
 - (c) What is the professionalism of technologist? Exhibit the characteristics of professionalism technologist.
(6 marks)
 - (d) Differentiate the role of engineering technologist and engineering.
(6 marks)
- Q4** Research & Development (R&D) was a part of development of the nation which spend 2 – 3 % of the national GDP. Define the term of gene transfer.
- (a) Name and explain 2 type of R&D.
(6 marks)
 - (b) Explain how the nation got to get the new technology for the Research & Development.
(8 marks)
 - (c) You are a researcher and tend to patent the product that you have produce. Exhibit steps that to be taken to patent your product R&D.
(11 marks)
- Q5** Technologist play an important role in the development of the country. They are involved whether in research, development or both areas.
- (a) State **FIVE (5)** Technologist roles in the development area.
(5 marks)
 - (b) There are two types of research namely fundamental research and applied research. Explain **THREE (3)** different type of production cycle depending on the volume of end-product with the help of diagram and examples.
(10 marks)
 - (c) Technology transfer is the acquisition and adaptation of production techniques from one country or firm to another and its application in a local production process. In your opinion, what are the reasons countries practice technology transfer and what is the drawback of it?
(10 marks)