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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2021/2022**

COURSE NAME : MANAGEMENT AND PROFESSIONAL ETHICS

COURSE CODE : BNR 37703

PROGRAMME CODE : BND / BNE / BNF

EXAMINATION DATE : JULY 2022

DURATION : 2 HOURS 30 MINUTES

INSTRUCTION :
1. ANSWERS 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 **FOUR (4)** PAGES.

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- Q1** (a) There are **FOUR (4)** main virtues of ethics. Elaborate **TWO (2)** of them. (2 marks)
- (b) Explain the difference between morality and ethics. (4 marks)
- (c) Identify **FIVE (5)** factors that demonstrate a strong work ethics. (5 marks)
- (d) You have discovered a safety flaw in a product that you are manufacturing. However, the recall of the product will affect the financial of the company. As an engineer / technologist, you must make the decision either to keep silence or proceed to call the product. Determine and discuss the ethical steps to resolve the conflict. (10 marks)
- (e) Explain the difference between Paper Entrepreneurs and Product Entrepreneurs. (4 marks)
- Q2** (a) Engineering ethics is the field of applied ethics and system of moral principles that apply to the practice of engineering. Define engineering ethics. Since the definition includes the phrase “personal commitments in professional field” is an important point in engineering ethics. Explain the concept of commitments and how it applies to your field or engineering. (8 marks)
- (b) A project management plan should be realistic for managing a project successfully. Project in business has an allocation for forecasting the costs before starting a project. Project cost forecasting includes the prediction of total cost of the tasks, time and resources required. As a manager, determine **THREE (3)** concepts of estimating the project budget so that the project can be completed on time. (6 marks)
- (c) Explain **THREE (3)** characteristics of service and **ONE (1)** example of a professional service applied to these characteristics. (7 marks)

- (d) Briefly describe the critical factors of supply chain management (SCM) in a general industry.

(4 marks)

- Q3**
- (a) Explain the roles of Engineering Technology Accreditation Council (ETAC).

(3 marks)
 - (b) List **THREE (3)** functions of the Malaysia Board of Technologist (MBOT).

(3 marks)
 - (c) Using a suitable flowchart, describe the application procedure to register as a Professional Technologist.

(5 marks)
 - (d) Under the Board of Engineers Malaysia (BEM), Circular No. 1, one of the Code of Conducts of Registered Person for Engineering Technologist is “Registered Engineering Technologist not to falsify qualification, etc.”. Demonstrate how this Code of Conduct is important to Engineering Technologist.

(6 marks)
 - (e) Differentiate the graduate attribute profiles for engineering and engineering technology students based on their engineering knowledge, problem analysis, design/development of solutions and modern tool usage.

(8 marks)
- Q4**
- (a) Merely 20 years ago, one of the world’s largest mobile phone companies come close to its ultimate goal, capturing the global mobile phone industry and leaving its closest competitors far behind. However, the company’s product almost disappeared from the market today. Predict the reasons to this scenario, from being market dictator to disappearing from the mobile phone market.

(5 marks)

- (b) The research and development in technology life cycle are also called bleeding edge. During this phase, the income from the inputs used to create the technology is negative and the risk of failure is higher. Discover the importance of research and development in organization or business.
(8 marks)
- (c) Founded in 2018, ZTO Water Technologies was one of the leading company focused on water filtration system. After detail option analysis, the executive board had approved the strategic program to introduce new water filtration system. As a member of the project leadership team responsible for the planning and execution of this strategic program, construct the strategic technology management system (STMS) to control this project successfully to ensure its competitiveness in the commercial market. Highlight each cycles' activities involved.
(12 marks)

-END OF QUESTIONS -

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