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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : MANAGEMENT AND PROFESSIONAL ETHICS

COURSE CODE : BNR 37703

PROGRAMME CODE : BND / BNE/ BNF

EXAMINATION DATE : JULY / AUGUST 2023

DURATION : 2 HOURS 30 MINUTES

INSTRUCTION

1. ANSWER ALL QUESTIONS
2. THIS FINAL EXAM 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 **THREE (3)** PAGES

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- Q1** (a) Ethics deals with values which drive our behavior exerting influence over our attitude.
- (i) Elaborate **FIVE (5)** personal values. (5 marks)
- (ii) Elaborate **FIVE (5)** professional values. (5 marks)
- (b) Explain **THREE (3)** ethical issues that may arise in engineering. (6 marks)
- (c) You are working as an equipment engineer in a manufacturing company that produces cooking oil. One of the major process for this product is filling the oil into the bottle and there is a requirement to check the oil level inside the bottle to ensure that the oil reach a certain level. Design a vision inspection system using image processing technique to be placed right after the filling station to check the oil level at each bottle is adequate before the bottle is transferred to the next station. Illustrate your design with hardware components and describe your inspection process. (9 marks)
- Q2** (a) Explain the attribute differences between the goods and services (6 marks)
- (b) Elaborate the **SIX (6)** characteristics of project (6 marks)
- (c) Discuss the **FIVE (5)** phases of project life cycle (5 marks)
- (d) Project management process is a roadmap to plan and execute critical project. Illustrate the project management process in flowchart (8 marks)
- Q3** (a) When designing a product, we must take into consideration all the safety aspects towards the user. Illustrate in graphical form the assessment of risk in design principle to get the optimum product cost and safety. (6 marks)
- (b) Summarize by explaining **FOUR (4)** common behavior traits of a professional engineer. (4 marks)

- (c) As professionals you have the responsibility to certain information in your organization. Explain the differences between these **FOUR (4)** types of information:
- (i) Confidentiality
 - (ii) Privileged information
 - (iii) Propriety information
 - (iv) Patents
- (8 marks)
- (d) You have been offered to start a career as engineer in a multinational electronics manufacturing company. Initiate a 5-year plan to become a professional engineer.
- (7 marks)
- Q4** (a) Illustrate in graphical form the **SIX (6)** phases of Technology Life Cycle-Path.
- (6 marks)
- (b) Explain the difference between Paper Entrepreneurs and Product Entrepreneurs.
- (6 marks)
- (c) Strategic Technology Management System (STMS) is a life cycle approach for strategic management of technology that includes **EIGHT (8)** phases. State and elaborate each of the phases.
- (8 marks)
- (d) Differentiate between managers and leaders. Provide **FIVE (5)** behaviors of managers and leaders in each differentiation.
- (5 marks)

-END OF QUESTIONS -