



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2016/2017**

TERBUKA

COURSE NAME : ENGINEERING MANAGEMENT
COURSE CODE : BNR 42603
PROGRAMME CODE : BND
EXAMINATION DATE : DECEMBER 2016
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

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

- Q1** (a) Differentiate planning, organizing, leading and controlling in the function of management. (8 marks)
- (b) Briefly explain definition of engineering management. (4 marks)
- (c) Gary is a senior engineer in a television manufacturing company. Recently he has been appointed as a production line manager. Discuss his tasks. (8 marks)
- Q2** (a) You are a CEO of a new company and required to plan and prepare for company's objectives. Discuss **FOUR (4)** criteria for planning the objectives. (8 marks)
- (b) State the **TWO (2)** advantages and disadvantages of wider span of control and narrow span of control organization. (6 marks)
- (c) Explain briefly the motivator factors for employee in an organization. (6 marks)
- Q3** (a) In order to provide quality for products and services, total quality management (TQM) is very important. Apply and explain **TWO (2)** elements of TQM to ensure the good quality of the products and services. (6 marks)
- (b) Assume that you are a quality department manager for a company and required to implement quality management and continuous improvement process in a production line. One of the elements for continuous improvement is PDCA. Discuss processes involved in PDCA cycle and draw suitable diagram. (10 marks)
- (c) Differentiate between ISO 9001 and ISO 14001. (4 marks)

- Q4** (a) Define the meaning of project. (4 marks)
- (b) James is a project manager for construction company. He needs to plan and build a factory for bicycle manufacturing company.
- (i) Develop suitable Work Breakdown Structure (WBS) for bicycle manufacturing. (10 marks)
- (ii) Distinguish **THREE (3)** types of project resources to be managed by the project manager. (6 marks)
- Q5** (a) Assets are important for any company financial. Compare between fixed assets and current assets. (6 marks)
- (b) Marketing is an important element in producing products and providing services. Explain briefly the **FOUR (4)** P's in marketing. (8 marks)
- (c) In order to monitor occupational safety and health issues, risk assessment is very important. One of tools for risk assessment is HIRARC. Apply steps to be done in HIRARC. (6 marks)

- END OF QUESTION -