

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2016/2017

COURSE NAME

: ENGINEERING MANAGEMENT

COURSE CODE

: BNR35203 / BNR42603

PROGRAMME CODE :

BND/BNE/BNF

EXAMINATION DATE :

JUNE 2017

DURATION

2 HOURS 30 MINUTES

INSTRUCTION

ANSWERS ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1	(a)	Differentiate planning, organizing, leading and controlling in the function of management. (8 marks)
	(b)	Briefly explain why we need for engineers in management. (6 marks)
	(c)	Gary, an engineering technologist graduate is appointed as a production line supervisor in a television manufacturing company. Discuss his tasks as the production line supervisor.
		(6 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)
03	(a)	In order to provide quality for products and services total quality management

Q3 (a) In order to provide quality for products and services, total quality management (TQM) is very important. Apply and explain FIVE (5) pillars of TQM to ensure the good quality of the products and services.

(10 marks)

(b) Assume that you are a quality department manager for a company and required to implement quality management and continous 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)



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Q4 (a) Define the meaning of project.

(3 marks)

(b) James is a project manager for construction company. He needs to plan and build a factory for bicycle manufacturing company. Develop and breakdown suitable plan for James to start his project.

(6 marks)

- (c) A project consists of eleven activities, A to K. The duration (in days), and the activities preceding each of them show in **Table Q4**.
 - (i) Construct an activity network diagram for the project. The early start, late start, early finish and late finish for each activity must be stated.
 - (ii) Find the critical path in this activity network.
 - (iii) Calculate the duration of completion time of the project

(11 marks)

Q5 (a) Marketing is an important element in producing products and providing services. Explain briefly the FOUR (4) P's in marketing

(8 marks)

(b) Explain differences between breakdown maintenance and scheduled maintenance.

(6 marks)

(c) In order to monitor occupational safety and health issues, risk assessment is very important. One of tools for risk assessment is HIRARC. Discuss steps to be done in HIRARC.

(6 marks)

- END OF QUESTIONS -

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Table Q4

Preceding Activities	Activities	Duration (Days)
C, F, J	A	7
Е	В	6
-	С	9
В, Н	D	7
C,J	E	3
-	F	8
A, I	G	4
J	H	9
E, F	I	9
-	J	7
В, Н, І	K	5

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