



FUJI NATIONAL UNIVERSITY

College of Engineering, Science and Technology (CEST)
School of Electrical and Electronic Engineering

TRADE DIPLOMA IN ELECTRICAL ENGINEERING

FINAL EXAMINATION - TRIMESTER 1, 2018

EEE585 ENGINEERING MANAGEMENT

Date: Friday, 25th April, 2018 **Time: 2.00pm to 5.10 pm** **Room:**

Instructions to candidates:

1. You are allowed 10 minutes Extra reading time during which you are NOT to write.
2. Begin each question on a fresh page and use both sides of the sheet.
3. Write your candidate – number at the top of each attached sheet.
4. Insert all written foolscaps, drawing paper, etc. in their correct sequence and secure with string.
5. For all sheets of paper on which rough/draft work has been done, cross it through and ATTACH to your answer scripts.
6. Write clearly the number(s) of the question(s) attempted on the top of each sheet.
7. There are six (6) questions altogether. ANSWER ALL QUESTIONS. the marks are indicated clearly for each question and for each part of the questions.
8. No programmable calculators are permitted into the examination room.

Question 1 (20 marks)

- (a) In most cases some companies. use the product manager to assume the following positions: product marketing manager , project manager and program manager p. Write briefly about the functions of the other manager that the Product Manager has to do while supervising a project. (6 marks)
- (b) What does the acronym SMART stand for as it represents the engineering project objectives in any engineering task? (6 marks)
- (c) Engineering Management in this 21st century has evolved dramatically. Briefly give an account of the trends that are most likely to impact the management work this century onward. (8 marks)

Question 2 (16 marks)

- (a) Difficulties are always experienced in any technical task. Name and describe briefly the traditional constraints in any engineering project management . (10 marks)
- (b) A maintenance work involves eight (8) tasks identified by the Roman numerals given in table 2b below.

Table 2b identifies the work breakdown structure in sequence in which the tasks must be undertaken. Construct a network for the maintenance work.

Tasks	Roman numeral of Any Immediately Preceding Activity or Activities
I	-
II	-
III	II
IV	-
V	I
VI	I, III, IV
VII	I, III, IV
VIII	VI, VII

Table 2b. (6 marks)



Question 3 (16 marks)

Contracts model forms may be used by buyers and sellers as the basis for their contractual agreement.

- (a) Identify examples of model contract forms and outline where they are likely to be used. (7 marks)
- (b) Briefly explain two advantages and two disadvantages of the use of standard and model contract forms as the basis of a legally binding agreement between two organisations. (9 marks)

Question 4 (16 marks)

- (a) Give a short account on one of the two integrating trend in modern management theory namely system approach and contingency approach. (5 marks)
- (b) Name and describe briefly the functions of management. (5 marks)
- (c) A senior staff of a government department applies for a paternity leave because his wife is due to give birth in one month time of their first child. But the staff due to his seniority is supposed to prepare a brief of the financial part of the his government department's budgetary plan that should be with the Ministry of Finance in two weeks' time. Even then it is two weeks late.
What shall be your decision as his head of department? Write notes to support the inclination of your decision. (6 marks)

Question 5 (16 marks)

- (a) On some occasions managers are also called upon to be project managers. Name six skills that are required of a project manager. (3 marks)
- (b) Give a brief account of a project budget and state how a project manager can keep track and control the project cost. Explain the validity of the S-curve in project budget. (5 marks)
- (c) In projects Earned value management system (EVMS) is very important in the management and measurement of engineering projects. Name and explain briefly the significance of the three pieces of information that are normally compared in EVMS. (8 marks)

Question 6 (16 marks)

- (a) (i) Name the types of planning used by modern corporate organisations today and describe briefly the intensions and two basic elements that each type incorporates.
(ii) In any business or organization Cash Flow Statement is the most important part of a business financial report. Explain why this is so.

(8 marks)

- (b) The closing prices of Company Wing Zoing Wah from January 24 to 28, 2017 were as in table 6b below.

Date	Closing Prices of Wing Zoing Wah (\$)
Jan 24	90.89
Jan 25	90.35
Jan 26	90.27
Jan 27	90.84
Jan 28	90.91

Table 6b.

- Calculate the moving averages and the weighted moving averages of the company Wing Zoing Wah in this 5 day period.

(8 marks)

The End