



FIJIANATIONAL UNIVERSITY

College of Engineering, Science and Technology (CEST)

School of Electrical and Electronic Engineering

TRADE DIPLOMA IN ELECTRICAL ENGINEERING

FINAL EXAMINATION - TRIMESTER 2, 2016

EEE585 ENGINEERING MANAGEMENT

Date: August, 2016

Time: -----

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 script.
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 shown clearly for each question and each part of the questions.
8. No programmable calculators are permitted into the examination room.



Question 1 (20 marks)

(a) Name the levels of management in a traditional organisation and describe briefly three functions of each level.

(12 marks)

(b) Managing in the 21st century has evolved dramatically. Give a brief account of the trends that are most likely to impact the management work in future.

(8 marks)

Question 2 (16 marks)

(a) What are the traditional constraints in engineering project management and describe each briefly.

(9 marks)

(b) A project involves eight (8) activities identified by the code letters given in table 1 below.

Table 1 identifies the work breakdown structure in sequence in which the activities must be undertaken. Construct a network for the project to show the sequence of the activities.

Activity	The Roman numerals 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 1

(7 marks)

Question 3 (16 marks)

Model forms of contracts may be used by buyers and sellers as the basis for their contractual agreement.

- (a) Name institutions which use model contract forms and outline where they are likely to be used.

(9 marks)

- (b) Explain **TWO** advantages and **TWO** disadvantages of the use of standard and model form contracts as the basis of a legally binding agreement between two organisations.

(7 marks)

Question 4 (16 marks)

- (a) Write a short account on **one** of the two integrating trend in modern management theory namely system approach and contingency approach.

(5 marks)

- (b) Identify and describe briefly the function of management.

(5 marks)

- (c) A senior staff wants to take a paternity leave because his wife is due to give birth in one month time of their first child. But in the same month the senior staff due to his seniority is supposed to prepare a brief of the financial part of his government department's budgetary plan that should be with the Ministry of Finance in two weeks' time. Even then the submission is already two weeks late.

What shall be your decision as his managerial supervisor? Write notes to support your decision.

(6 marks)

Question 5 (16 marks)

- (a) At the time of needs managers are also called upon to become project managers. Name five skills that a project manager should possess in order to function properly.

(3 marks)

- (b) Give a brief account of a project budget and show how a project manager can monitor and control the project budget. What is the significance of the S-curve in project budget control?

(5 marks)

- (c) Earned value management system (EVMS) is very important in the management and measurement of success 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 and describe briefly the intensions and two basic elements that each type incorporates.

- (ii) Comment on the business advice that Cash Flow Statement is the most important part of a business financial planning.

(8 marks)

- (b) Closing prices of Zoing Company from May 24th to 28th, 2015 were in table 2 below.

Date	Closing Prices of Zoing (\$)
May 24	91.89
May 25	91.35
May 26	91.27
May 27	91.84
May 28	91.91

Table 2

Calculate the moving averages and the weighted moving averages of Zoing Company in this period.

(8 marks)

The End

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Particulars	Details/Comments (To be filled by Unit Lecturer)	Tick if present on EQP (To be filled by exams staff)
Cover Page	/	
Fiji National University with Logo	/	
College	/	
School	/	
Program	/	
Unit Code	/	
Unit Name	/	
Examination Period	/	
Duration of Examination	/	
Instructions	/	
Total Number of Pages	/	
Other Pages	/	
Footer	/	
Page Number	/	
Unit Code	/	
Examination Period	/	
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Unit Coordinator/Principal Lecturer's Name	SAMUELA ROKO CARAU	

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