



TRADE DIPLOMA IN ELECTRICAL ENGINEERING

FINAL EXAMINATION - TRIMESTER 1, 2017

**EEE585 ENGINEERING MANAGEMENT**

**Date: Wednesday, 19<sup>th</sup> April, 2017 Time: 9.00am to 12.10 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) Identify the levels of management in a traditional organisation and briefly describe three functions of each level.

(12 marks)

(b) Managing in the present century (21<sup>st</sup>) 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) Identify the traditional constraint in engineering project management and describe each briefly.

(10 marks)

(b) A project involves eight (8) activities identified by the code letters given in table 2 below.

Table 2 identifies the work breakdown structure in sequence in which the activities must be undertaken. Construct a network for the project.

Activity	Code Letter of Any Immediately Preceding Activity or Activities
a	-
b	-
c	b
d	-
e	a
f	a, c, d
g	a, c, d
h	f, g

**Table 2.**



(6 marks)

**Question 3 (16 marks)**

Model forms of contracts 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.

(6 marks)

- (b) Give and 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.

(10 marks)

**Question 4 (16 marks)**

- (a) Write a short account on 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 decides to take a maternity leave because his wife is due in one month of their first child. But the senior 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 with the Ministry of Finance in two weeks' time.

What shall be your decision as his manager? Write notes to support the inclination of your decision.

(6 marks)

**Question 5 (16 marks)**

- (a) Managers are also called upon to be project managers. Give five skills required of a project manager.  
(5 marks)
- (b) Give a brief account of a project budget and state how a project manager can keep track and control of the project cost?  
(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.  
(6 marks)

**Question 6 (16 marks)**

- (a) (i) Name the three types of planning and describe briefly the intensions and two basic elements that each type incorporates.  
(ii) Comment on the statement that Cash Flow Statement is the most important part of a business financial planning.

(8 marks)

- (b) The closing prices of Company Zing from March 21 to 25, 2014 were as in table 2 below.

Date	Closing Prices of Zing (\$)
April 21	90.89
April 22	90.35
April 23	90.27
April 24	90.84
April 25	90.91

What are the moving averages and the weighted moving averages of the company Zing in this given period.

(8 marks)



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