

# UNIVERSITY OF NAIROBI

## FEE 582: MANAGEMENT FOR ENGINEERS

08<sup>th</sup> MAY 2017

16:00 – 18:00

### INSTRUCTIONS

Answer ALL questions

### Q1 PROJECT MANAGEMENT

- a) The project manager is responsible for everything that is required to make the project a success, whether directly or indirectly, because project management is a complex undertaking with many stages and processes. Explain the stages to be followed in project management. (4 marks)
- b) An engineering project has the following activities. Assuming that the project team will work a standard working week (5 working days in 1 week) and that all tasks will start as soon as possible

Activity	Description	Duration (Working Days)	Predecessor/s
A	Requirements Analysis	5	
B	Systems Design	15	A
C	Programming	25	B
D	Telecoms	15	B
E	Hardware Installation	30	B
F	Integration	10	C, D
G	Systems Testing	10	E, F
H	Training and Support	5	G
I	Handover and Go-live	5	H

- i. Draw the critical path analysis of the project. (6 marks)
- ii. Calculate the planned duration of the project in weeks. (2 marks)
- iii. Determine the critical path of the project. (3marks)

## Q2 INTRODUCTION TO ACCOUNTING

- a) Discuss the merits of keeping proper books of accounts in a business. (5 marks)
- b) MKZ Engineering Firm has the following balances in their books of accounts for the period ended 31st December 2016.

	<b>Debit KSH '000</b>	<b>Credit KSH '000</b>
Share Capital		10,000
Bank loan		3,000
Furniture and Fixture	2,000	
Building	7,500	
Equipment	2,500	
Creditor		1,000
Debtors	2,500	
Cash	500	
Bank balance	1,200	
Sales		12,000
Cost of Sales	8,000	
Salaries and Wages	1,300	
General Administration Expenses	500	
	26,000	26,000

- i. Prepare MKZ Engineering Firm Profit and Loss Account for the period ended 31st December 2015. (6 marks)
- ii. Prepare MKZ Engineering Firm Balance Sheet firm for the period ended 31st December 2015. (4 marks)

**Q3** List and discuss the sources of conflict when working in a team, and explain the strategies available for resolving team conflict. (10 marks)

**Q4** Discuss the benefits of having a business plan before starting a business. (10 marks)