



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering and Technology

DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING

DEPE5, DCNE5
DEAE5, DTIE5

EEP 2316

INDUSTRIAL ORGANIZATION & MANAGEMENT

SEMESTER EXAMINATIONS

SERIES: FEBRUARY 2011 SERIES

TIME: 2 HOURS

Instructions to Candidates:

1. Answer Question **ONE (COMPULSORY)** and any other **TWO** Questions.

(COMPULSORY)

Question ONE

- a) Using the following demand and supply functions of a commodity X, compute the equilibrium price and quantity.
Qd = 100 – 2P
Qs = 40 + 4P (4 marks)
- b) Discuss any THREE reasons supporting the adoption of price control as an economic policy by a Government. (6 marks)
- c) State any FOUR serial responsibility of a business. (4 marks)
- d) Differentiate between C.P.M. and PERT on project engineering techniques. (4 marks)
- e) Discuss the process of undertaking effective delegation in a large organization. (8 marks)
- f) Suggest any FOUR policy recommendations you would make to the Government to reduce regional development imbalance in Kenya. (4 marks)

(ANSWER ANY OTHER TWO QUESTIONS)

Question TWO

- a) The table 1 below shows the time duration and preceding activities for a project which is to be subjected to C.P.M. analysis.

		Duration in wks	Immediate predecessor
1 – 2	Product design	6	-
1 – 3	Plan market research	2	-
2 – 5	Routing (manufacturing Engineering)	3	1 – 2
2 – 4	Build prototype	5	1 – 2
2 – 3	Prepare market brochure	3	1 – 2
5 – 7	Cost estimate	2	2 – 5
4 – 7	Preliminary testing	3	2 – 4
3 – 6	Market survey	4	1 – 3, 2 – 3
6 – 7	Pricing report	2	3 – 6
7 – 8	Final report	2	5 – 7, 4 – 7, 6 – 7

Required:

Sketch the project network indicating the critical path and determine project completion time. (8 marks)

- b) Outline any FOUR objectives of network analysis. (4 marks)
- c) Explain any FOUR characteristics of a good Engineering product design. (8 marks)

Question THREE

- a) “Planning is the backbone of management and without it an organization is forced to operate on trial and error”. In the light of this statement, discuss the role of planning. (10marks)
- b) Define the following terms:
- i) Authority
 - ii) Accountability
- c) Describe the following styles of management
- i) Despotic
 - ii) Laissez faire (6 marks)

Question FOUR

- a) i) Outline the key pre-requisites to planning an effective preventive maintenance programme in an industrial organization.
- ii) State FOUR advantages of such a programme. (8 marks)
- b) i) Explain the meaning of the term “automation” as used in manufacturing.
- ii) State FOUR benefits of automation. (6 marks)
- c) Define the following terms as used in international trade
- i) Dumping
 - ii) Ad valorem tax
 - iii) Balance of payments. (6 marks)

Question FIVE

- a) State TWO factors that influence the demand for:
- i) Labour
 - ii) Capital (4 marks)

b) Table 2

Price	Quantity Demanded (kg)	Quantity supplied (kg)
10	120	10
20	80	30
30	60	50
40	50	70
50	40	90
60	30	120
70	20	140

- i) Draw the demand and supply curves on the same graph.
- ii) From the graph, determine the equilibrium price and quantity. (10marks)
- c) Explain any THREE methods used by Central Bank to control the lending capacity of Commercial Banks in Kenya. (6 marks)