MACHAKOS UNIVERSITY

University Examinations for 2022/2023

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

FIFTH YEAR ……..SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (electrical and electric

EEE 503: INDUSTRIAL MANAGEMENT

DATE: TIME:

<u>Instructions to candidates:</u>

This paper consists of FIVE Questions.

Answer Question ONE [30 Marks] and any other TWO Questions [20 Marks Each].

Write your University number on the answer sheet.

This paper consists of 3 printed pages

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

QUESTION ONE (COMPULSORY) (30 MARKS)

a) Demonstrate various stages that have resulted to the development of industrial management. (8 marks)

b) Define the term macroeconomics and state three issues associated with it. (3 marks)

c) The ultimate objective of industrial management is to produce the right quantity of right quality goods at the right time. In your own context show how is it achieved. (6 marks)

d) Find the partial productivity and total productivity for a company X for which the following data is available: Output = ksh 15000, Labor input =Ksh 4500, Materials input = Ksh 3000, Capital input =4500, Energy input = Ksh 1500. Other input expenses= Ksh 750. Assume the above values are in constant Ksh with respect to a base period (8 marks)

e) Show how Frederick W Taylor principle in industrial management sustained the effort of direction and efficiency improvement through his contribution. (2 marks)

f) Enlist six Factors are Contributing to the Complexity of Control in industrial management. (3 marks)

QUESTION TWO (20MARKS)

a) In your own context, demonstrated how industrial management has helped cooperates world in drawing up an optimal organization structure. (10 marks)

b) Production control is the key element to any organizational structure. In your own context explain eight devised techniques that have necessitate effectiveness of resources optimization (8 marks)

c) Explain how supply and demand curve affect the production. (2 marks)

QUESTION THREE (20 MARKS)

a) Enterprise set up and settling in developing countries has created positive impact to their economy either direct or indirect. Before such ideal are conceptualized during set up and settling there are key element that are considered. Discuss in details.

or

b) Explain various factors that affect the functionality of management in an organizational set up.

QUESTION FOUR (20 MARKS)

a) A good and effective production-control system requires sound organizational structure, reliable information, a relatively high degree of standardization and trained personnel for its success. Discus those factors that have enhanced its success. (8 marks)

b) Production in a well set up organization is one of key aspect in achieving its goal and objectives. Managers and head of section line involved in attributing such production there arise a need to motivate them such that a production is optimized. Describe various ways of motivating such a hardworking employee. (6 marks)

c) Explain the characteristic, advantages and disadvantages of leadership style in our core of organization (6 marks)

QUESTION FIVE (20 MARKS)

a) Describe how the firm set up can be strengthened through capacity planning, resource allocation and scheduling. (8 marks)

b) Explain how aforementioned models have been devised as the forecasting tool (6 marks)

   i. Replacement models
   ii. Queuing theory

c) In your own context, show how forecasting techniques are implemented in operations management. (6 marks)