MACHAKOS UNIVERSITY

University Examinations for 2019/2020Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FIFTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN ELECTRICAL AND ELECTRONICS ENGINEERING

EEE 503 INDUSTRIAL MANAGEMENT

DATE: 26/10/2020 **TIME: 8.30-10.30 AM**

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (30 MARKS)

a) Explain the theories revolving on demand and supply curve and their effect to industrial management. (4 marks)

b) Production is the key to success for a developing nation. Discuss four factors that affect the production in reference to industrial management. (4 marks)

c) Explain three significances of a well set up organization structure (6 marks)

d) Outline the four factors that affect span of control in a organization. (2 marks)

e) What are the available barriers that are involved in controlling organization? (3 marks)

f) Product manufacturing is defined on different level of classification. Discuss in details. (3 marks)

g) Objectives are always formulated for the benefits of the organization set up to achieve its vision. In reference to Industrial Management Engineering describe how they have been formulated. (4 marks)

h) Delegation is the ability to get result through others develop guidelines for effective delegation. Discuss. . (4 marks)

QUESTION TWO (20 MARKS)

a) Several theories from different scholars have been envisaged to describe how industrial management has adversely affected the production and the growth of different nation economy. In reference to Kenya set up, explain how, and when will the nation reach the level of sustainability. (10 marks)

b) Discuss the various approaches that need to be enhanced and hence outline the key role for each player that he should undertake to optimize the resource and work towards achieving the vision and the mission of entities set up in Kenya (10 marks)

QUESTION THREE (20 MARKS)

a) Explain the four pillar that are used to build formal organization, state its characteristic, advantages, disadvantages and the difference between its counterpart informal structure. (12 marks)

b) Industrial set up comprises both skilled and nonskilled. Describe the process that is taken into consideration to bring onboard the right personnel.as the Engineer in charge of technical department. (8 marks)

QUESTION FOUR (20 MARKS)

a) Organization cannot optimize its goals without having a proper budget in place. Explain the importance of having budgetary control tool. (6 marks)

b) Discuss various budgetary control techniques involved in controlling the operation of the industry to ascertain its goal. (10 marks)

c) Our parastatals firms that are involved in production, processing and services provision are operating on deficit. Discuss the main reason that has resulted to that and to have the effecting control on them what are the requirement that the management and board of trustee should put in place? (4 marks)

QUESTION FIVE (20 MARKS)

a) Project Engineers play vital roles in executing, analysis and examining the progress of the project & conformance with the performance requirements. Explain how quality control process techniques help them to evaluate the given project. (8 marks)

b) Forecasting techniques is a tool that ascertain the future of industry in the line to production and services provision. Explain the following tool used in forecasting: (12 marks)

i. Replacement models

ii. Queuing theory

iii. Transport and simulation models

iv. Game theory