



MACHAKOS UNIVERSITY

University Examination 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FIFTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (ELECTRICAL AND ELECTRONICS ENGINEERING)

EEE 503: INDUSTRIAL MANAGEMENT

DATE: 17/5/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question ONE and any other TWO Questions.

QUESTION ONE (30 MARKS)

- a) Production is the key factor for the growth of the nation and to have an optimal and sustainability production in our economy, explain the accelerating factors that affect productivity. (3 marks)
- b) Highlight the features of intermittent system in the chain of the production (3 marks)
- c) Describe how Taylor has emphasized on scientific management and states its drawback (4 marks)
- d) Explain the role of manager as per Henry Mintzberg recommendation to organization structure. (4 marks)
- e) Decision making has certain impact to the Incumbent industries and new entrant firms, explain its effect in their organization systems. (4 marks)
- f) Outline the features of a well-defined goals and objectives of a well-structured organization. (3 marks)
- g) State the advantages of having budgetary control techniques to all organizations. (2 marks)
- h) Production Engineer plays a major role in estimating the rate of production and advising the firms on the rightful way of the productivity measurement. (3 marks)
- i) Discuss different kind of measurement adopted by the production Engineer in analyzing the performance of the firms. (4 marks)

QUESTION TWO (20 MARKS)

- a) Explain three different kinds of measuring productivity in a processing sector (6 marks)
- b) Discuss the features of a continuous type of manufacturing system hence explain how it differs with intermittent system. (8 marks)
- c) Explain how supply and demand curve affect the production. (6 marks)

QUESTION THREE (20 MARKS)

- a) A group of Engineers are intending to set up a small business enterprise to give supports to other organization. Explain various factors that need to be considered by them before setting their business. (8 marks)
- b) Planning is an intellectual process that conscious determine the course of action. Describe how planning process a attributes to goal realization in an organization (5 marks)
- c) Organization process establishes the relationship among the members of enterprise where by organization gets involved in group identification, dividing them among the individual and creating authority and responsibility among them to accomplishment of organization objective. Describe the devised step in achieving the organization process (7 marks)

QUESTION FOUR (20 MARKS)

- a) 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. (8 marks)
- b) Discuss various metric tools that are used by any organization to have an optimal efficiency. (4 marks)
- c) Discuss the characteristic, advantages and disadvantages of leadership style in our core of organization (8 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 (12 marks)
 - i. Replacement models
 - ii. Queuing theory
 - iii. Transport and simulation models