

EAST AFRICAN SCHOOL OF AVIATION EXAMINATION

END - TERM I

ENGINEERING SECTION

EXAMINATION FOR THE AWARD OF DIPLOMA IN AERONAUTICAL ENGINEERING

SUBJECT: INDUSTRIAL ORGANIZATION AND MANAGEMENT

STREAM: TEP YEAR 3 Duration: 3 Hrs.

INSTRUCTIONS TO CANDIDATE:

- 1. This paper consists of **THREE** (3) printed pages.
- 2. All questions carry equal marks.
- 3. Maximum marks for each part of a question are as shown
- 4. Attempt all **FIVE** questions.
- 5. Cheating will lead to exam cancellation.
- 6. You should have the following:-
 - Mathematical Tables

1 (a) State SIX functions of organizational charts

(6 marks)

(b) Explain the following terms as used in organizational theory

(6 marks)

(5 marks)

(2 marks)

- (i) Staff relationship
- (ii) Delegation
- (iii) matrix organization
- (c) (i) Explain the term "decentralization"
 - (ii) Outline two advantages of decentralized organization over centralized organization (8 marks)
- 2 (a) State FIVE characteristics of batch production
 - (b) Outline the differences between production planning and production control (6 marks)
 - (c) Discuss factors affecting the plant layout (9 marks)
- 3 (a) Define "work study"
 - (b) Explain the procedure of carrying out a method study (6 marks)
 - (c) A project consists of 9 activities and the three time estimates are given below

Activities		Days		
i	j	То	TL	TP
10	20	5	12	17
10	30	8	10	13
10	40	9	11	12
20	30	5	8	9
20	50	9	11	13
40	60	14	18	22
30	70	21	25	30
60	70	8	13	17
60	80	14	17	21
70	80	6	9	12

4 (Differentiate between milestone charts and bar charts in project management (2 marks)			
(l	Explain the stages of production planning and control	(10 marks)		
((Outline 8 symptoms of a plant layout which need to be redesigned for production planning and control 	the advantage of (8 marks)		
5 (a) Outline six factors used to control a quality design	(6 marks)		
(b	Explain the advantages of a good plant layout in an organization	(6 marks)		
(c) Explain the advantages and limitations of process (functional layout)	(8 marks)		