

FACULTY OF ENGINEERING AND TECHNOLOGY IN CONJUCTION WITH KENYA INSTITUTE OF HIGHWAYS AND BUILIDNG TECHNOLOGY (KIHBT)

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR:

HIGHER DIPLOMA IN BUILDING ECONOMICS

EBE 3109: SITE ORGANIZATION AND ADMINISTRATION I A

END OF SEMESTER EXAMINATIONS SERIES: OCTOBER 2016

TIME: 2HOURS

Instruction to candidates

You should have the following for this examination

- Answer booklet
- Pocket Calculator

This paper consist of five question.

Answer any three questions of the five questions

All question carry equal marks

Maximum marks for each part of a question are as shown

This paper consist of two printed pages

QUESTION 1.

a)	List five roles of each	h of the following	g parties as	pertains to	site safety,	health a	ınd
welfare	2:-						

- (i) Safety officer/manager
- (ii) Site supervisors
- (iii) Safety committees
- (iv) Safety representatives

(20 marks)

QUESTION 2

- a) Highlight the Three main objectives of an effective site safety management system (3 marks)
- b) Briefly describe the term "site tidiness" citing any five steps followed in achieving it (7 marks)
- c) Outline Five causes of accidents resulting from excavation work (5 marks)
- d) By use of a sketches show the safety precautions suitable to prevent the causes of accidents mentioned in (c) above. (5 marks)

QUESTION 3.

- a) Outline the precautions that should be taken before anyone is allowed in a deep trench or an excavation (7marks)
- b) Highlight five safety precautions a worker is supposed to take to avoid danger/accident from underground services (5 marks)
- c) Outline Eightways in which a tower scaffold may cause accidents when in use (8 marks)

QUESTION 4

- a) Defferentiate the following terms:
 - i) Independent scaffold
 - ii)Putlog scaffold (2 marks)
- b) Briefly explain four factors that/which affect safe use of a crane on site. (8 marks)
- c) Highlight Ten basic considerations made when selecting, using and maintaining portable hand tools in a construction site (10 marks)

QUESTION 5.

- a) Discuss five vital considerations which act as a general guide for a standard sanitary facility installation in a construction site (10 marks)
- b) When an accident occurs on a construction site and someone gets injured, how would you help him/her? (4 marks)
- c) Briefly explain any Three safety precautions used in preventing collapse of deep excavations in a new building project (6 marks)