



TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

KIBIT EXAMINATIONS FOR:

HIGHER DIPLOMA IN BUILDING AND CIVIL ENGINEERING

(BUILDING ECONOMICS OPTION)

EBC 3207: SITE ORGANIZATION, ADMINISTRATION

AND WORK STUDY I

YEAR 2 SEMESTER I

SERIES: DECEMBER 2017

TIME: 2 HOURS

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

-Pocket calculator

This paper consists of **FIVE** questions. Attempt question **ONE** (Compulsory) and any other **TWO** questions.

Do not write on the question paper.

Mobile Phones are NOT allowed inside the examination room.

SECTION A (COMPULSORY-30 MARKS)

QUESTION ONE

(a) State **FIVE** duties and responsibilities of the following members of the in the design and construction of a project:

- i) Client
- ii) Architect
- iii) Contractor

(15Marks)



(b) Briefly explain the location of the following facilities on a given site under site

Organization:

- i) Administrative office
- ii) Operatives and Sub contractors Huts
- iii) Storage compounds

(15 Marks)

SECTION B (Attempt any TWO questions)

QUESTION TWO (20 Marks)

(a) State **SIX** measures to reduce wastage of materials on a construction site **(8 Marks)**

(b) Explain the consideration to be made in site layout planning with regard to the following:

- i) Adjoining property
- ii) Site boundary
- iii) Access to site and traffic flow
- iv) Site Security

(12 Marks)

QUESTION THREE (20 Marks)

(a) State **SIX** duties of a building inspector. **(6 Marks)**

(b) With the aid of a sketch explain the use of a delivery note. **(6 Marks)**

(c) Outline material procurement procedure for a construction site. **(8 Marks)**

QUESTION FOUR (20 Marks)

(a) State **SIX** considerations to be made before purchasing of land for construction purposes. **(6 Marks)**

(b) With the aid of a sketch explain the use of a Mason's scaffolding. **(14Marks)**

QUESTION FIVE (20 Marks)

Figure 1 shows a plan of a building and a section of the foundation. Using the data given, determine the amount of the following materials that would be required for construction of the foundation base:

- (a) Cement in 50 Kg bags (8 Marks)
- (b) Sand in tones (6 Marks)
- (c) Coarse aggregates in tones (6 Marks)

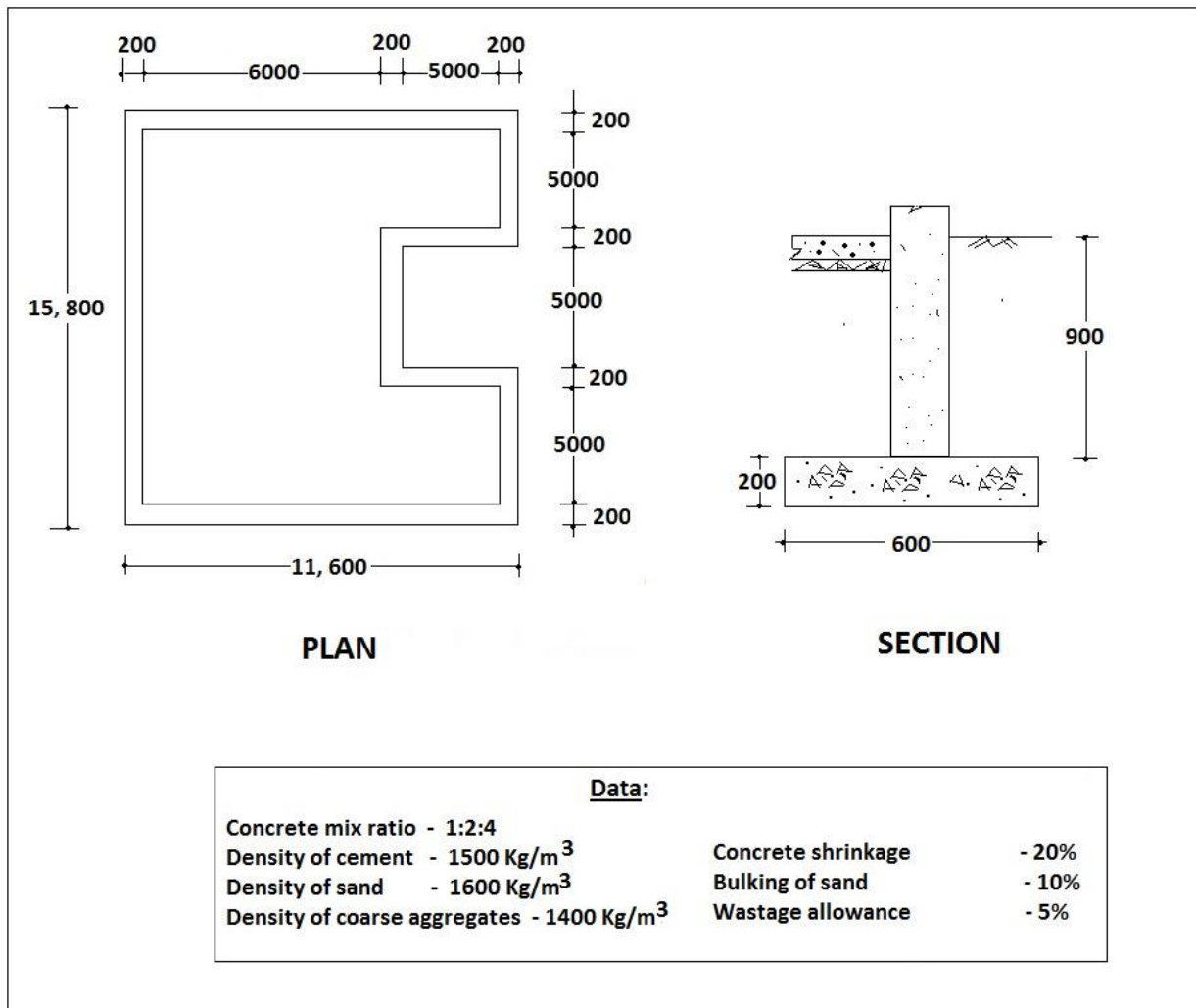


Fig.1