



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) 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

(12 Marks)

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(b) With the aid of a sketch Describe a typical provision of Mason's scaffolding.

(18Marks)

i)

SECTION B (Attempt any TWO questions)

QUESTION TWO (20 Marks)

(a) Explain **FOUR** measures for reduction of wastage of materials on a construction site

(8 Marks)

(b) Briefly describe the location of the following facilities on a given site under site organization:

(i) Administrative office

(ii) Storage compounds

(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 procedure used to procurement material 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) Explain **FIVE** responsibilities of the following members of a design and construction project:

i) Client

ii) Architect

iii) Contractor

(14Marks)

QUESTION FIVE (20 Marks)

Using the data given, determine the amount of the following materials that would be required for construction of the foundation base of a residential building:

- (a) Cement in 50 Kg bags (7Marks)
- (b) Coarse aggregates in tones (8 Marks)
- (c) Sand in tones (5 Marks)

A plan and a section of the foundation is as shown in figure 1.

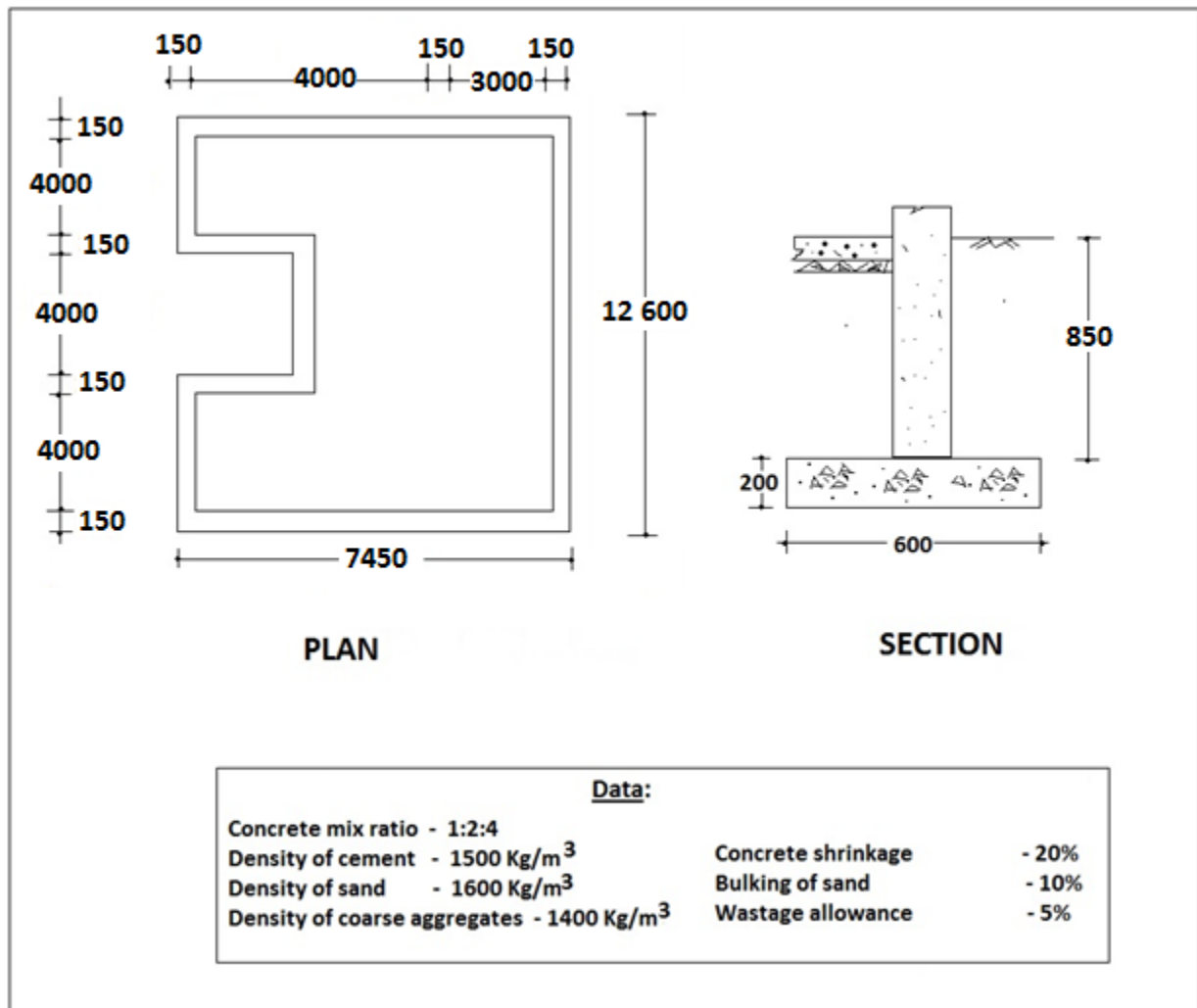


Fig.1