



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering & Technology

DEPARTMENT OF CIVIL AND BUILDING ENGINEERING

CERTIFICATE IN CONSTRUCTION TECHNICIAN I

SEMESTER II EXAMINATIONS

APRIL/MAY 2010 SERIES

BUILDING DRAWING

TIME: 2 HOURS

Instructions to Candidates

You should have the following for this examination:-

- Answer booklet
- Calculator
- Drawing instruments

This paper consist of **FIVE** Questions in **ONE** Section, **A** and **FOUR** in Section **B**.

Answer any **THREE** Questions choosing **ONE** from Section **A** (Compulsory) and any **TWO** from Section B.

Questions in Section **A** carry **30 Marks** and Section **B** carry **20 Marks** each.
Maximum marks for each part of a question are as shown.

SECTION A – COMPULSORY (30 Marks)

Question ONE

- (a). Briefly describe the **TWO** methods of building drawing presentation.
(6 Marks)
- (b). Using sketches describe the **TWO** methods of Drawing described in 1(a) above.
(12 Marks)
- (c). Briefly describe the duties of the following members of the Building team in specification writing during the design stage:
- (i). Architect
 - (ii). Civil Engineer
 - (iii). Quantity Surveyor
- (6 Marks)**

SECTION B -ANSER ANY TWO QUESTIONS (20 Marks each)

Question TWO

- (a). State the importance of using standard signs and symbols in the design of buildings.
(4 Marks)
- (b). With the aid of a sketch describe the following conventional sign and symbols:
- (i). Stone walling
 - (ii). Concrete
 - (iii). Timber
 - (iv). Hardcore
 - (v). Earth
- (10 Marks)**
- (c). State the importance of using models in the design of Buildings.
(5 Marks)

Question THREE

- (a). State the importance of technical drawing as a design technique.
(4 Marks)
- (b). Describe the components of technical drawing in building drawing presentation.
(10 Marks)
- (c). State the importance of detail drawing.
(6 Marks)

Question FOUR

- (a). Briefly describe the **TWO** main types of services in buildings. **(6 Marks)**
- (b). With the aid of a sketch describe the indirect method of Water supply to residential buildings. **(8 Marks)**
- (c). State the advantages of direct Cold water supply system in domestic supply. **(6 Marks)**

Question FIVE

- (a). Describe the process of submission and approval of building Plans. **(9 Marks)**
- (b). State the role of the inspectorate in the design and approval of building drawings and construction process. **(6 Marks)**
- (c). State the reasons for approving building drawings. **(5 Marks)**