



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY
EXAMINATIONS
2018/ 2019 ACADEMIC YEAR
SECOND YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF URBAN AND REGIONAL
PLANNING**

**COURSE CODE: URP 2202
COURSE TITLE: INTRODUCTION TO
TECHNICAL
DRAWING**

**DATE: 23RD APRIL 2019
1100 - 1300 HRS**

TIME:

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **THREE** in section **B**.

This paper consists of 3 printed pages. Please turn over

SECTION A: ANSWER ALL QUESTIONS (25 MARKS)

1 a) Define the following terms

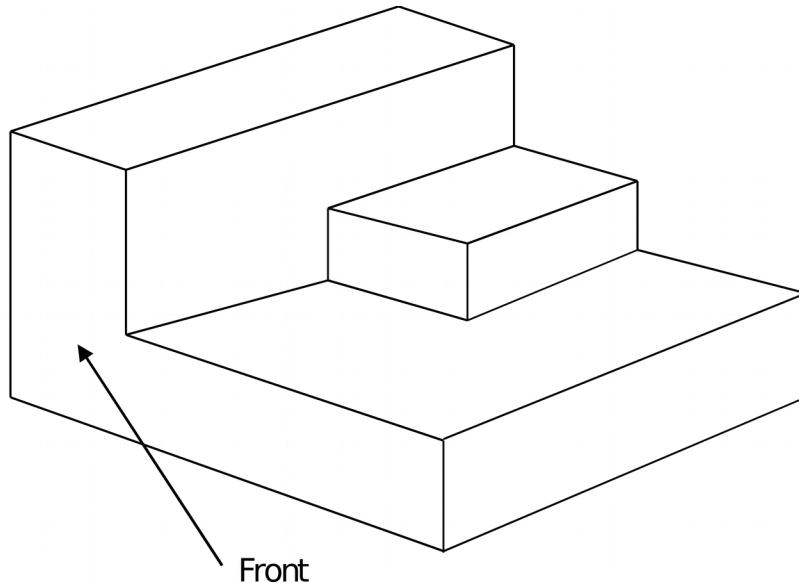
- i. Graphics language (1 mark)**
- ii. Icon (1 mark)**
- iii. Projection (1 mark)**
- iv. Geographic Information System (GIS) (1 mark)**
- v. Symbol (1 mark)**

b) Discuss the **three** aspects of graphic language
(6 marks)

c) Explain the **four** elements of visual expression
(4 marks)

d) Illustrate the **three** conventional orthographic views of the diagram below

(6 marks)



e) The set of all points is determined by their stated conditions.
Draw :

- i. The locus of a point 'P' equidistant from two fixed point 'A' and 'B'

**(2
marks)**

- ii. The locus of point 'P' about another point 'O' in such that the distance from 'O' is constant

(2 marks)

SECTION B: ANSWER ANY THREE QUESTIONS (45 MARKS)

2 a) Clearly indicating the degrees measure of angles used, demonstrate the following dimensional views using a cuboid

- i. Oblique **(3
marks)**

- ii. Perspective **(3
marks)**

- iii. Isometric **(3
marks)**

b) The choice of materials is a vital part in artists' final results. Explain any **two** pencil drawing instruments while clearly

stating an advantage and a disadvantage of each
(6 marks)

3 a) Explain the meaning of the concept 'Computer-Aided Design (CAD)'

(1 mark)

b) Discuss any **five** applications of Geographic Information System (GIS)

(10 marks)

(10 marks)

c) Describe the use of the following types of drawings for building design

i. Block plan **(1 mark)**

ii. Elevation plan **(1 mark)**

iii. Floor plans **(1 mark)**

iv. Cross-sectional plans **(1 mark)**

4 a) Discuss any **five** basic elements of design
(10 marks)

b) Describe **five** considerations that should be made when drawing reinforced concrete plans for slabs, stairs and footings
(5 marks)

5. You have hired by the Narok County Council government to prepare a building plan

a) Identify important information that you will include in the plan **(6 marks)**

b) Explain any **four** materials you will require for tracing and reproduction of blue prints
(4 marks)

c) Describe the drafting paper sizes you will need for your plan
(5 marks)

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