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)

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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