

**THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATIONS COUNCIL  
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION**

**084**

**ELECTRICAL DRAUGHTING**  
(For Both School and Private Candidates)

**Time: 3 Hours**

***Wednesday, October 12, 2005 p.m.***

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**Instructions**

1. This paper consists of **six (6)** questions.
2. Answer question **number 1** and other **three (3)** questions.
3. Electronic calculators are **not** allowed in the examination room.
4. Cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

CPB

This paper consists of **2** printed pages.



1. Draw an isometric drawing from the views shown in Figure 1. The arrows show the direction in which the object is to be viewed.

(All dimensions may be scaled directly on to the isometric drawing drawn as a, b and c).

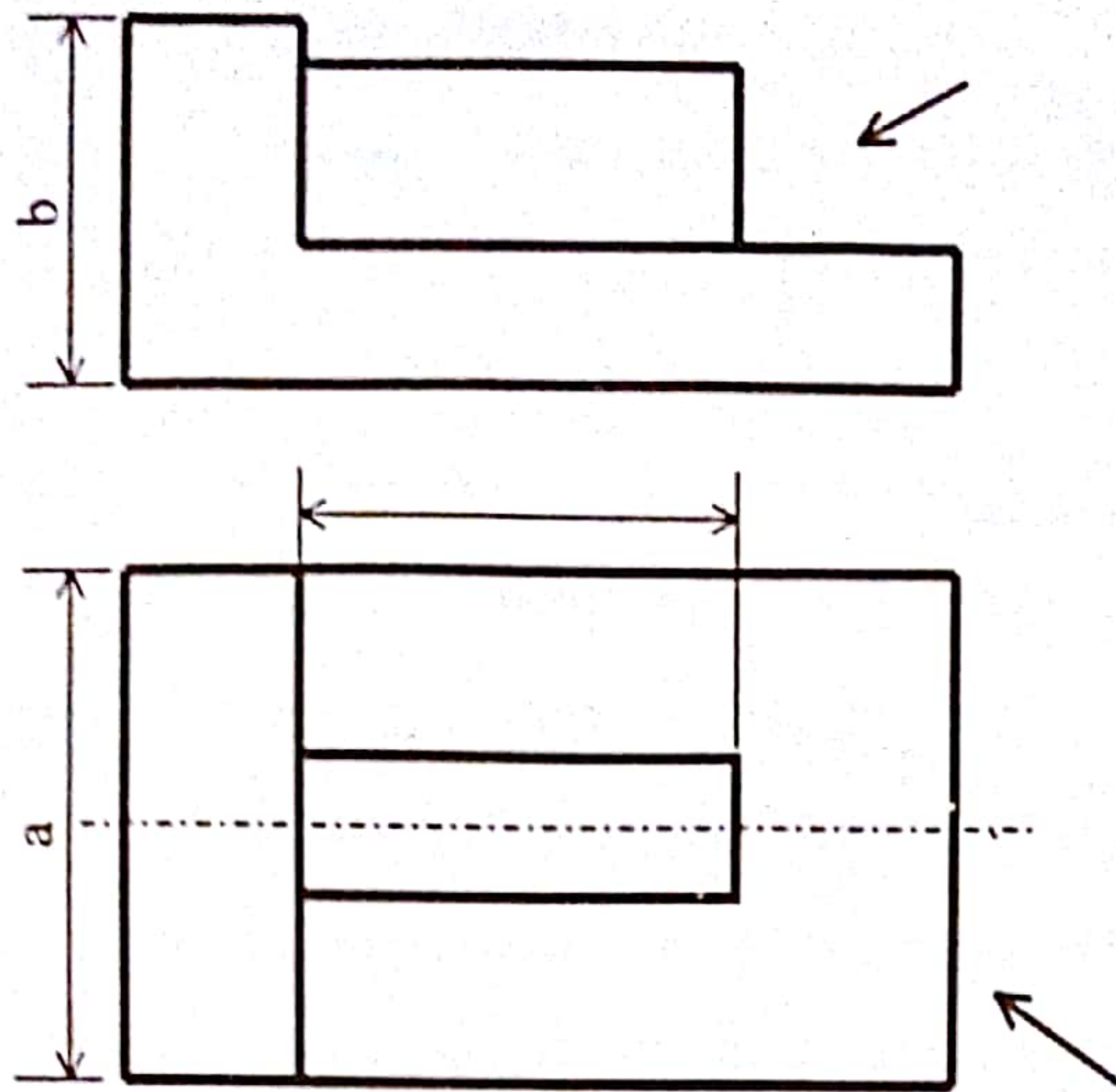


Fig. 1

2. Sketch the conventional symbols of the following subjects:
- (a) Round (solid) (b) Round (tubular) (c) Rectangular (d) Bearings
3. Define the following terms as applied in Electrical Draughting:
- (a) Wiring diagram (b) Schematic diagram (c) Installation diagram  
(d) Plan of installation
4. Write the meaning of the following:
- (a) CSK (b) CRS (c) C'BORE (d) RDHD  
(e) HEX HD
5. (a) Draw a clear labelled, smoothed rectifier system, by using two semiconductor diodes. The circuit should be connected from a step-down transformer and the load resistor should be shown (connected).  
(b) Draw a labelled superheterodyne block diagram of a receiver.
6. Write the abbreviations of the following terms:
- (a) Chamfered  
(b) Outside diameter  
(c) Threads per inch  
(d) Across flats  
(e) Centre line