## 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

2006/10/11 p.m.

## Instructions

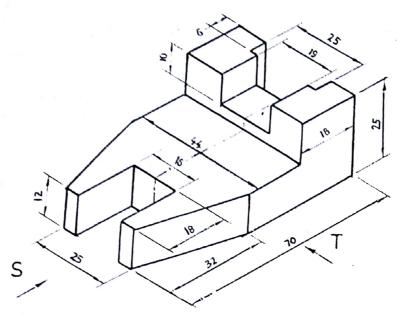
- 1. This paper consists of six questions.
  - 2. Answer question number 1 and any other three (3) questions.
- 3. Electronic calculators are not allowed in the examination room.
- Cellular phones are not allowed in the examination room.
- 5. Write your Examination Number on every page of your answer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

This paper consists of 2 printed pages.

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The pictorial diagram shown below is a guide. Draw full size in THIRD ANGLE orthographic projection, the following views as shown:

- (a) Front elevation in direction of arrow T.
- (b) End elevation in direction of arrow S.
- (c) Plan view projected from view (a).



(40 marks)

- 2. Make sketches of the following electronic logic circuit gates and electronic devices:
  - (a) NOR
  - (b) AND
  - (c) NAND
  - (d) OR
  - (e) Zenerdiode
  - (f) Capacitor
  - (g) Diode
  - (h) Transformer.

(20 marks)

- 3. Draw a one-line diagram of a single light/bulb controlled from two different positions (stations).

  (20 marks)
- 4. (a) List eight (8) major types of drawings commonly used in the electronics industry.
  - (b) Name four (4) sizes of drawing papers.

(20 marks)

5. Sketch a cable laying schemes using the correct symbols.

(20 marks)

- 6. (a) State six logical sequence of steps used to draw a block diagram.
  - (b) Define the following terms:
    - (i) Reference designator
    - (ii) Crossover
    - (iii) Dogleg.

(20 marks)

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