## 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 afternoon 17/10/2007

## Instructions

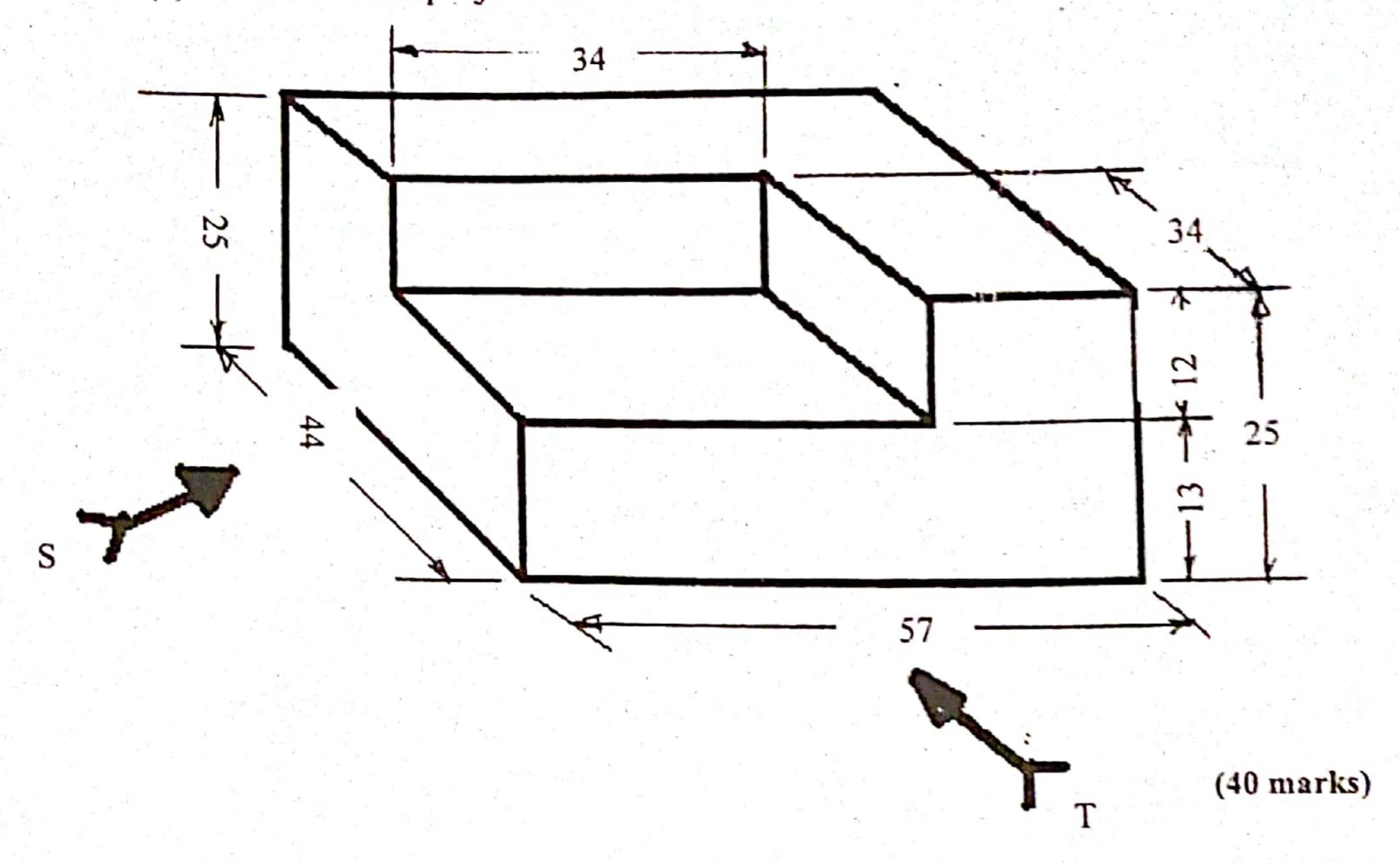
- 1. This paper consists of six (6) questions.
- 2. Answer question number 1 and any other three (3) questions.
- 3. Electronic calculators are not allowed in the examination room.
- 4. Cellular phones are not allowed in the examination room.
- 5. Write your Examination Number on every page of your answer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

This paper consists of 3 printed pages.

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S4S

- 1. Draw full size in third angle orthographic projection the following views of as shown:
  - (a) Front elevation in direction of arrow T
  - (b) End elevation in direction of arrows S
  - (c) Plan view projected from view (a)



- 2. Sketch the conventional figures of the following titles:
  - (a) Straight knurling
  - (b) Diamond knurling
  - (c) Square on shaft
  - (d) Hole on a circular pitch.

(20 marks)

3. The sketch shown in fig. 1 is an installation diagram of intermediate switching controlling two lighting points. Draw the assembled representation circuit diagram for the systems.

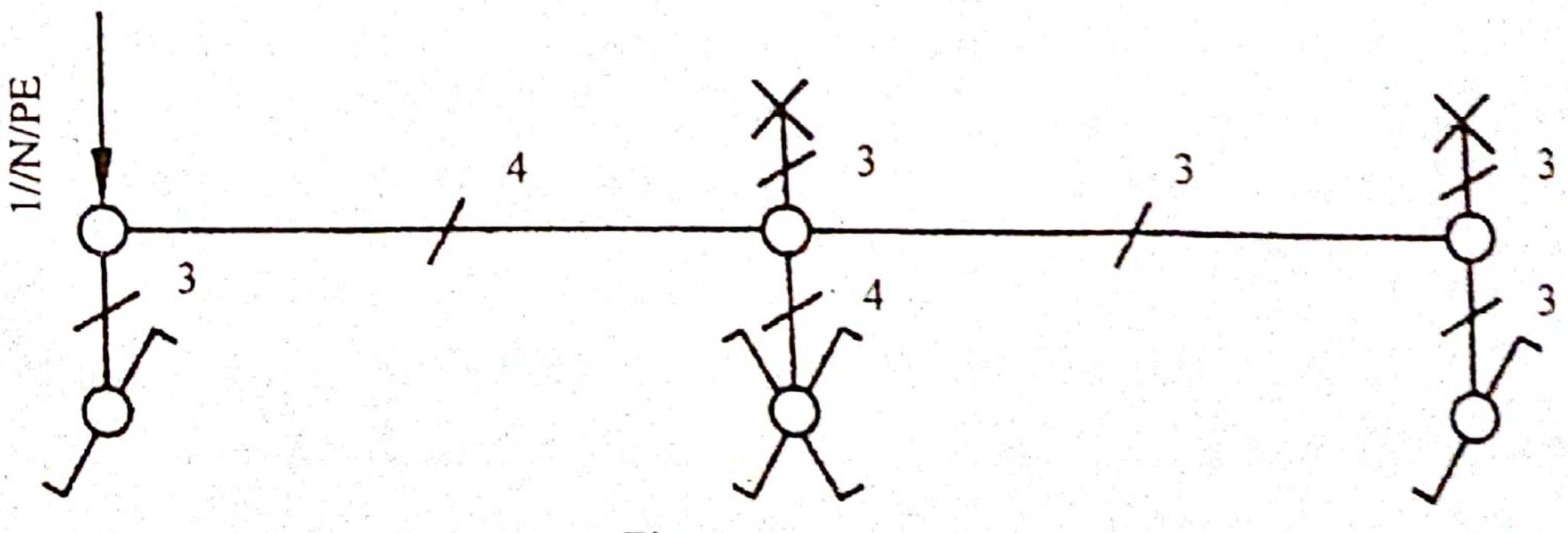


Fig. 1

(20 marks)

4.	Draw a simple stable amplifier using the following components:  1 NPN transistor  4 Resistors  3 Capacitors  Use common emitter transistor configuration.  (20 marks)		
5.	Sketch the symbols of the following accessories:		
	(a)	Immersion heater with thermostat	
	(b)	Fixed radiator	
	(c)	Thermostat	
	(d)	Filament lamp	
	(e)	Wall socket outlet.	(20 marks)
6.	Sketch the symbols of the following components:		
	(a)	Zener diode	
	(b)	PNP transistor	
	(c)	Rectifier	
	(d)	Thyristor	
	(e)	Photoelectric cell.	(20 marks)

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