Candidate's	Humber	

THE UNITED REPUBLIC OF TANZANIA MINISTRY OF EDUCATION AND CULTURE FORM TWO SECONDARY EDUCATION EXAMINATIONS, 1992

0081

ELECTRICAL INSTALLATION

TIME: 2.00 Hours

INSTRUCTIONS TO CANDIDATES

- 1. Attempt all 25 questions.
- 2. Answers for questions 11 25 should be written in the arswer sheets provided and attached at the end of this paper.

This paper consists of 4 printed pages.

	- ' 3 - Candidate's Number
	9. A saddle is a fitting used on
	o. For proper operation of a transistor forward bias the emitter-base junction and reverse bias the
1	Questions 10 - 20 require short answers in the answer sheets provided.
11	. What is the equivalent capacitance of two 2000µF capacitors connected in parallel?
12	. Mention four types of wiring systems.
13	. Avometer is a combination of three instruments. Mention *hem.
14	c lateder deinte
15	of a resistor if a voltage of 4.5v between its ends
16	The three forms of Ohm's law are
17.	Three materials used for battery separators are:
18.	Mention four types of cables.
19.	durations of using circuit breakers over rewirable fuses.
20.	Draw the symbol of the following devices.
	(i) Zener diode
	(ii) Photo diode
	(iii) npn transistor.
	SECTION B (35 marks)
	or should be written in the answer sheet provided.
25	Answers to questions 21 - 25 should be a s
	The state of the S
22	the difference between the coulomb and the damped
22.	A resistor is marked or colour coded as follows:
23.	1st band Brown 18 1000CR.
	2nd band black C

3rd band orange

		*		. "	No	
1	. 3	_	Candidate's	,	NO.	 -

- 24: (a) Explain the difference between primary and secondary cell
 - (b) A conductor is marked 25/0.14mm. What does this mean?
- 25. An electrical appliance is connected to 220v supply through one-way switch.

 Draw a simple circuit to show how you would connect your ammeter and voltmeter to measure current and voltage of the appliance.