## **EXAMINATION: AUTHORISATION B**

## April 2017

Practical Test	Time Allowed - 1Hr	
Name & Surname(In Block letters)		Index No.

## EXAMINATION: AUTHORISATION B

## April 2017

Pra	actical Test	Time Allowed - 1Hr	
	ne & Surname Plock letters)	Index No	
assume taken in	der that a new vocational college laboratory workshop the layout of the college laboratory workshop. How into account to safeguard the students. The college lab Single-phase main switches.  Three-phase machines which include a Pillar Drill (Socket outlets.  Lighting luminaries and  Three educational working benches, each equipperstops along each respective bench.  Seven other Emergency stops are also installed a installed adjacent to each of the 3-phase machines machine.  Sove is supplied from a 400/230 Volts, 50 Hz 4-wire symptoms.	wever, it is expected that safety considerate oratory workshop consists of the following:  3-phase) and a Grinding Machine (3-phase).  ed with three Main Switches and two emergence of the following:  around the laboratory workshop, two of we mentioned above i.e. the pillar drill and a	tions are  :  ergency  hich are
The fol	llowing loads are installed:		
1. 2. 3.	Nine single-phase main switches rated 20 amps. Two three-phase motors rated 7 amps each. Eighteen fluorescent luminaries 58 watts each.		
Questic	ons:		
	Draw a circuit diagram of the emergency stop b contactor.  State the requirements of the IEE regulations concer	(7 ma	-
		(4 ma	rks)
	Refer to the Figure 1 attached: Indicate on the attached Figure 1, the proposed con from the distribution board.	(6 ma	rks)
	Draw a layout for the above vocational college laboureat, clear and fully labelled.  Draw a schematic diagram of the installation, show	(5 ma	rks)

(18 marks)

rating of the protective devices, and the size of wires to be used.

**EXAMINATION: AUTHORISATION B** 

April 2017

Practical Test	Time Allowed - 1Hr	
Name & Surname(In Block letters)		Index No

EXAMINATION: AUTHORISATION B

April 2017

Practical Test	Time Allowed - 1Hr	
Name & Surname(In Block letters)		Index No.

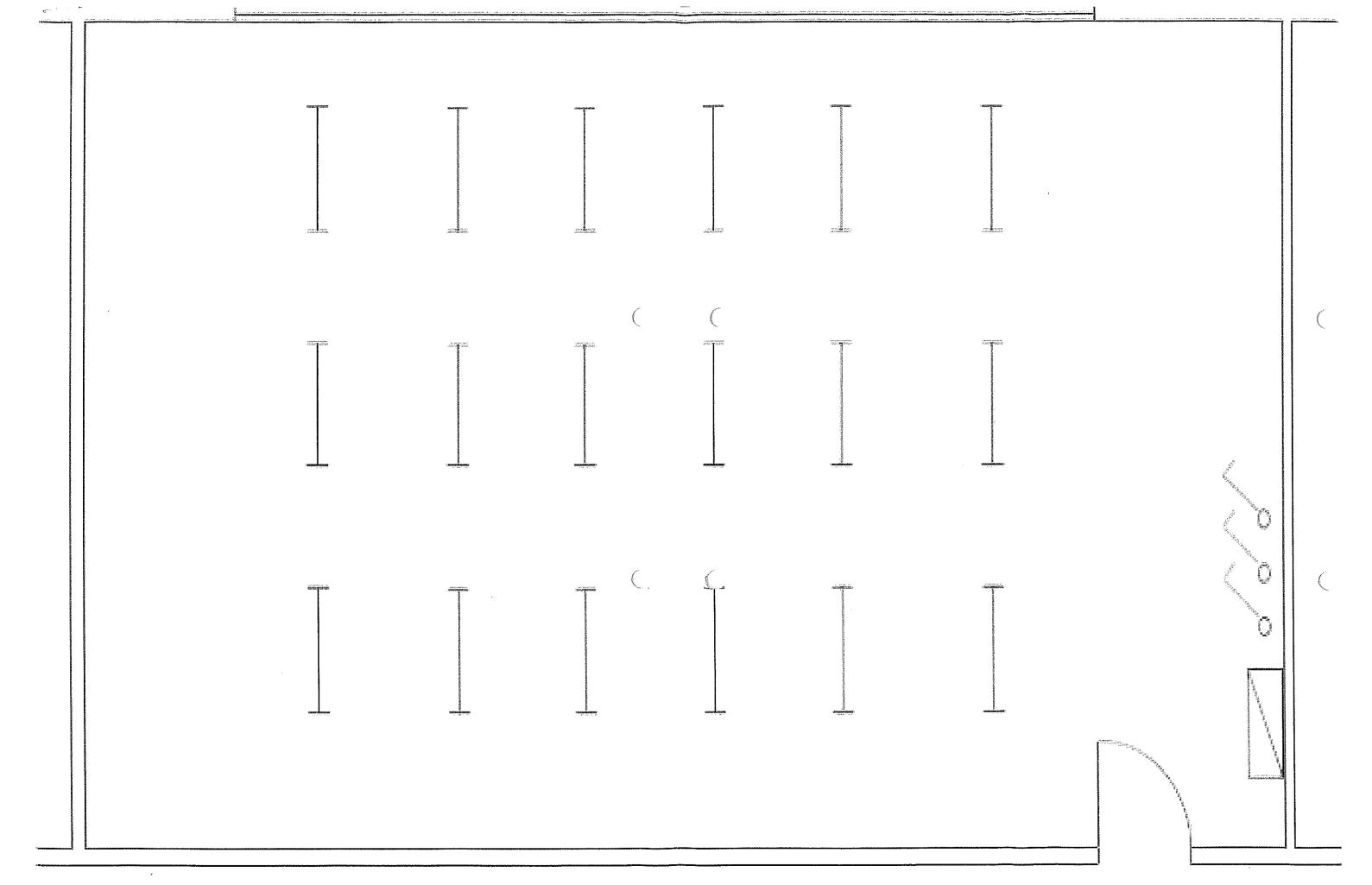


Figure 1.