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071305T4EOP

ELECTRICAL OPERATION (POWER OPTION) LEVEL 5

ENG/CU/PO/CR/05/5/A

Install Security System

Nov/Dec 2024

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

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PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. Do not write on the question paper
2. DO NOT switch ON power without assessor's permission
3. A separate plain paper will be provided
4. Return the question paper to the assessor at the end of practical.

Figure 1 shows a layout diagram of a call and alarm circuit to be installed using PVC sheathed cable wiring system on surface such that, push buttons A and B controls bell 1 through a 240V relay, push button C and cord operated switch D controls bell 2 through a 12V relay, indicator lamp glows when bell 2 is ringing and siren sounds when bell 2 is ringing

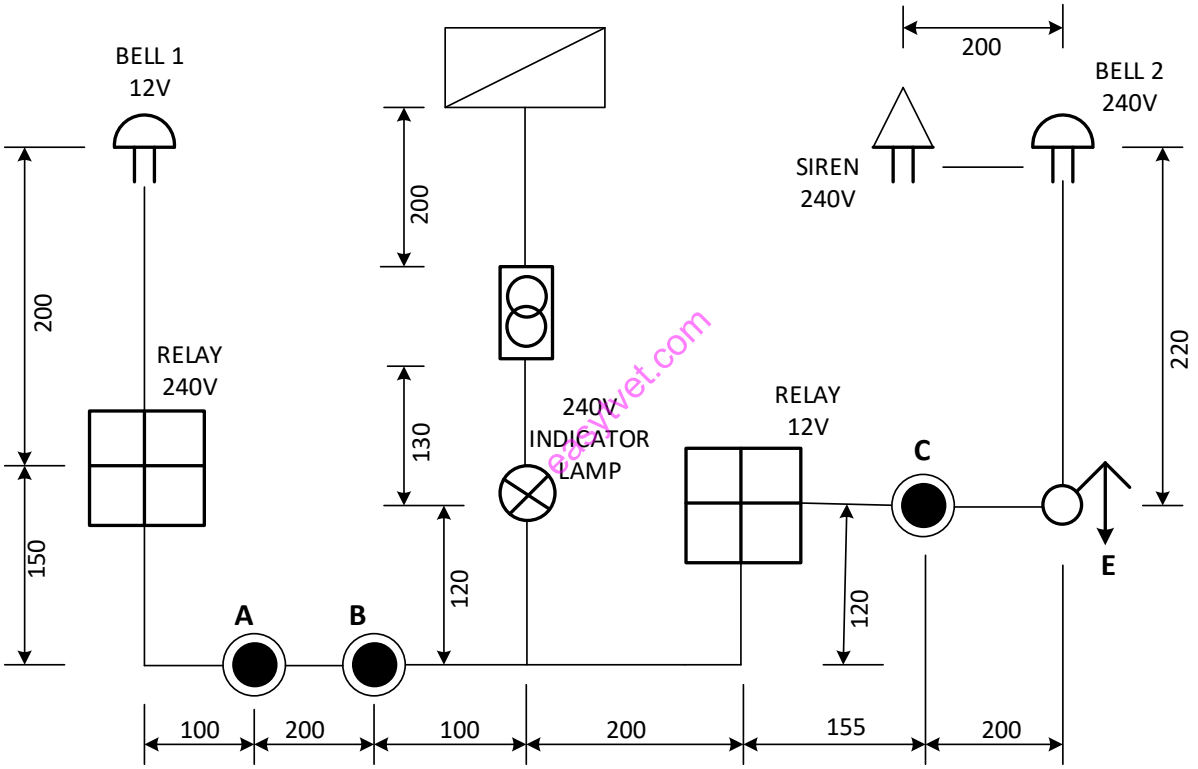


Figure 1

You will be provided with enough materials, tools and equipment to carry out the following tasks

Task 1

Draw a NEAT wiring diagram for the arrangement (8 Marks)

Task 2

Estimate materials required for the project completion (4 Marks)

Task 3

Install the circuit to conform with the IEEE regulations requirements (24 Marks)

Task 4

Carry out the following tests in the presence of the assessor

i. Continuity test
ii. Polarity test (4 Marks)

Task 5

Power the circuit for correct operation as instructed by assessor (10 Marks)

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