



# EXAMINATION: AUTHORISATION A

April 2021

**Practical Test**

**Time Allowed – 1½ Hr**

**Name & Surname** \_\_\_\_\_  
*(In Block letters)*

**Index No.** \_\_\_\_\_

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1. The electrical installation of a flat consists of the following circuits:
- Two lighting circuits - Both circuits supply 6 lamps.
  - Two power circuits – Both circuits having 6 double poles switched socket outlet.
  - A 2.5kW cooker unit
  - One Air condition unit rated at 2.5 kW
  - Supply to wash room, where there are a power circuit for the washing machine and a lighting circuit.

The electrical supply to the flat 230V 50Hz single phase supply.

- Draw a schematic drawing of the installation showing the consumer units, all outlets and switches. **(15 marks)**
- The rating of the MCB's used for each consumer unit and cables. **(15 marks)**
- The block consists of 6 flats and a common part. Explain how the main earthing arrangement is done for these flats. **(5 marks)**
- List the sequence of test that need to be performed before energising the installation. **(5 marks)**

**Note: no calculations for cable sizes are required.**

**PLEASE WRITE YOUR ANSWERS AND DRAWINGS HERE**

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