

EXAMINATION: AUTHORISATION A

SUPPLEMENTARY PAPER - April 2022

Practical Test

Time Allowed – 1½ Hr

Name & Surname _____
(In Block letters)

Index No. _____

The attached plans (Figure 1 – Ground Floor and Figure 2 – 1st Floor) are for a Three Bedroom House which has been bought in shell form. You have been entrusted to carry out the electrical installation for this house. The owner has agreed with the proposed electrical points marked on the building. You are asked to propose an installation design for this house. The electrical installation is to be supplied from a 230V, 50 Hz single-phase supply.

- (a) For the three-bedroom house state the number of circuits required. It is important to specify the area (rooms) for each respective circuit. (8 marks)
- (b) Indicate where to place the Main Distribution Board for the three-bedroom house installation. (4 marks)
- (c) Indicate on the attached drawings the proposed circuits and conduit routes for the lighting circuits and smoke detectors only. (12 marks)
- (d) Draw a suitable Consumer Unit layout for the above installation showing the MCBs, Main Switch, RCD and any other protection required for the above installation. (10 marks)
- (e) List the sequence of tests that need to be performed before energising the installation. (6 marks)

Note:

All diagrams must be neat, clear, and fully labelled.

PLEASE WRITE YOUR ANSWERS AND DRAWINGS HERE

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Figure 2 - 1st Floor

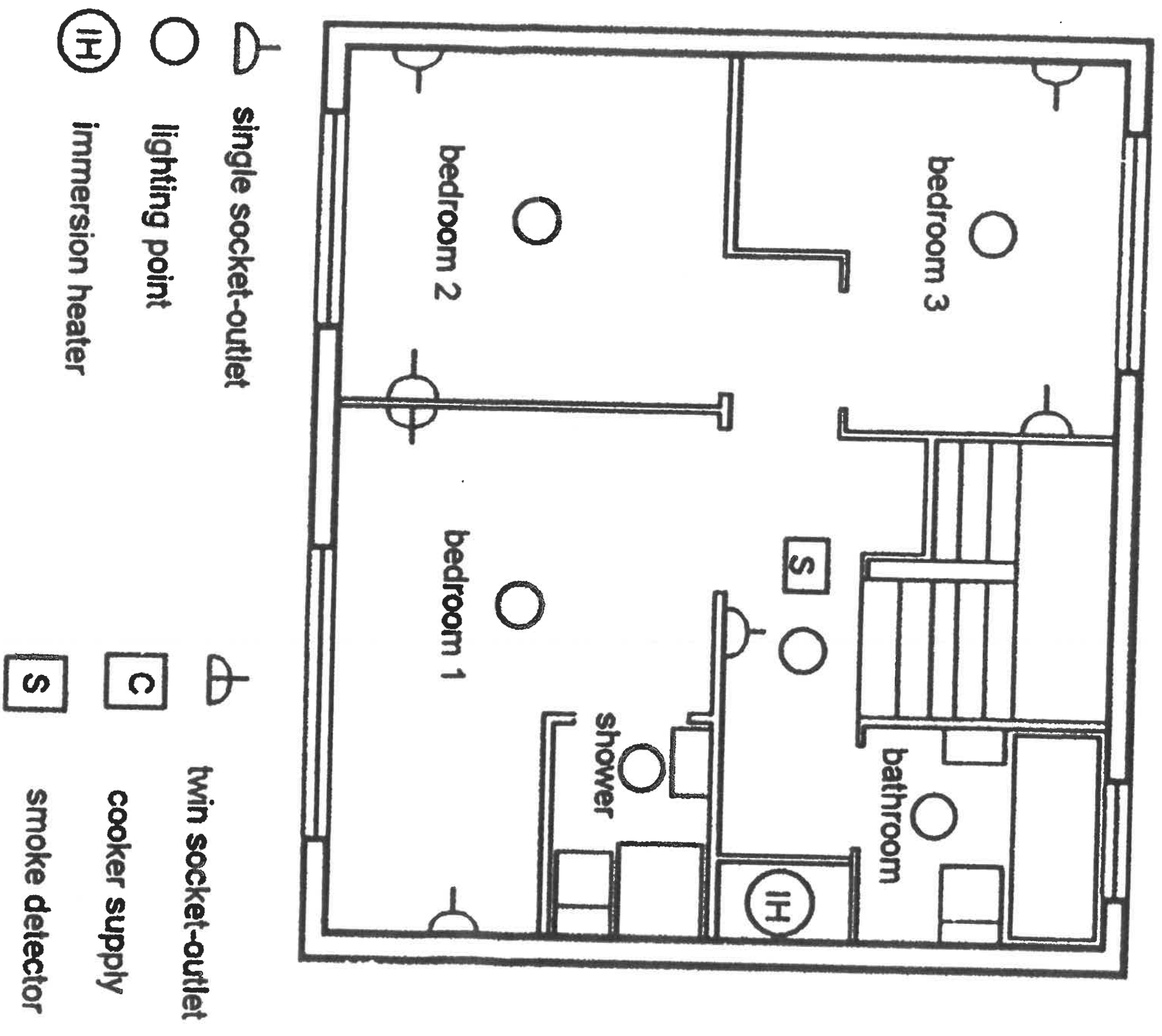


Figure 1 - Ground Floor

