

EXAMINATION FOR THE ISSUE OF AUTHORISATION 'A' - LICENCE 'A'

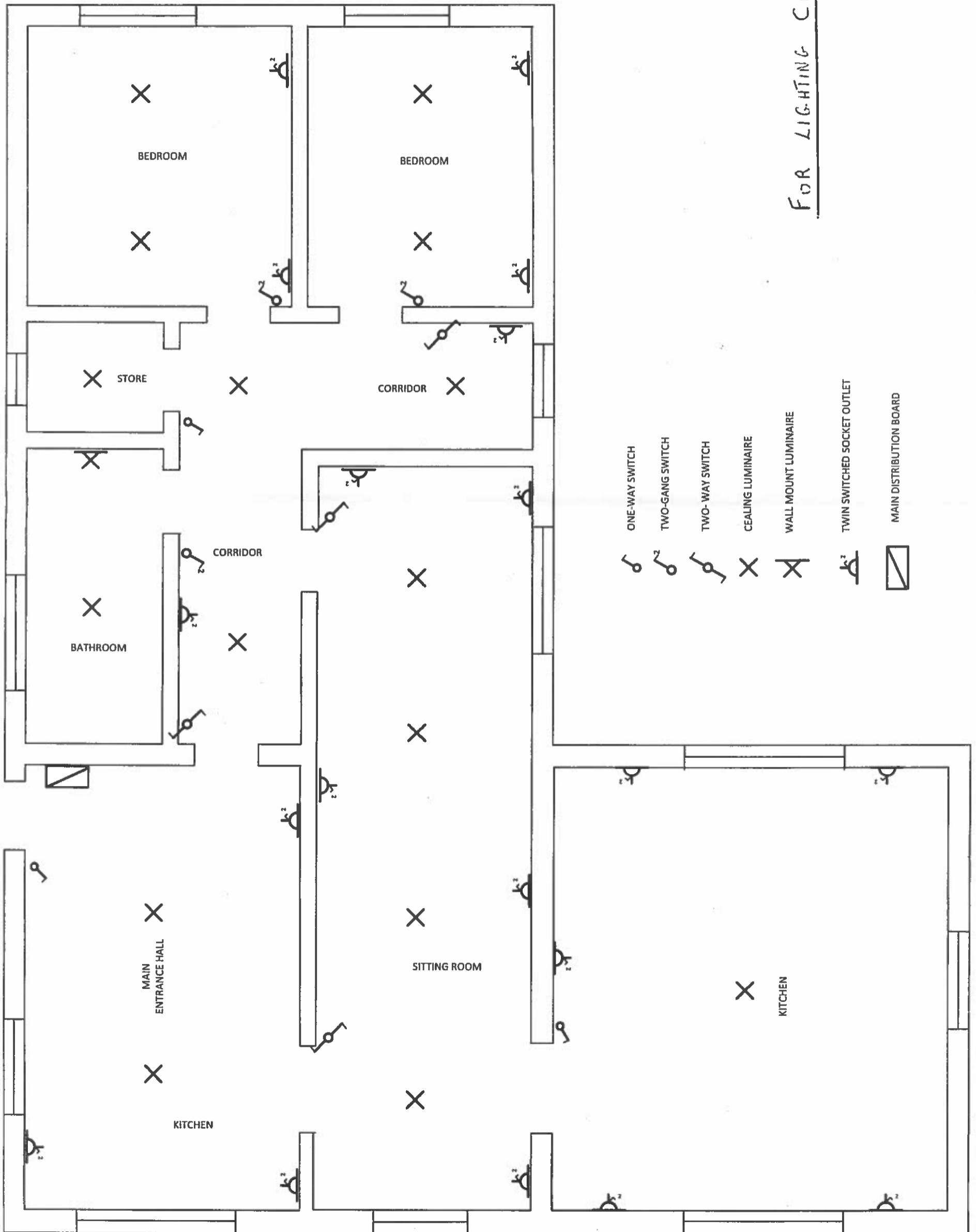
Practical Test **September 2016** **Time Allowed: 1 Hr**

NAME & SURNAME _____

INDEX NO. _____

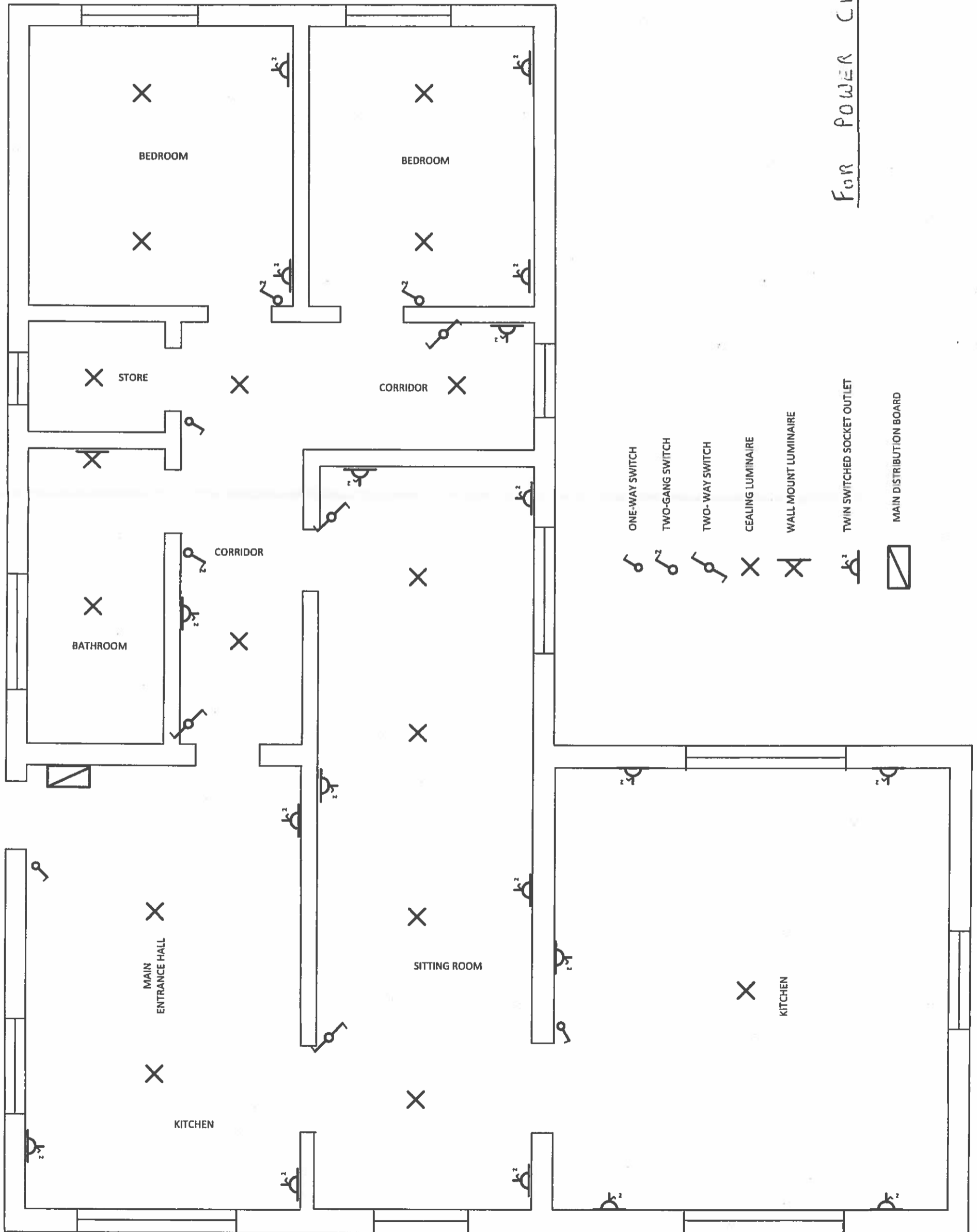
1. The attached drawings show the building plan for an apartment. The owner has marked on the building plan the electrical points he require for the electrical installation. The electrical installation is to be supplied from a 230V, 50Hz single-phase supply.
 - A. State how many circuits do you suggest for this electrical installation and clearly specify the area (rooms) that each circuit will be protecting **(4 marks)**
 - B. Indicate on one of the attached drawings, the proposed circuits and conduit routes for the lighting circuits from the distribution board. **(5 marks)**
 - C. Indicate on one of the attached drawings, the proposed circuits and conduit routes for the power circuits from the distribution board. **(5 marks)**
 - D. Draw a suitable Consumer Unit Layout for the above installation showing the MCB's, Main Switch, RCD and any other protection that may be required for the installation. **(8 marks)**
 - E. List the sequence of tests that need to be performed before energising the installation **(6 marks)**
 - F. List the sequence of tests that need to be performed after energising the installation. **(6 marks)**
 - G. Describe how you would perform an insulation resistance test for this installation. **(6 marks)**

END OF PAPER



FOR LIGHTING CIRCUITS

- ONE-WAY SWITCH
- TWO-GANG SWITCH
- TWO-WAY SWITCH
- CEILING LUMINAIRE
- WALL MOUNT LUMINAIRE
- TWIN SWITCHED SOCKET OUTLET
- MAIN DISTRIBUTION BOARD



FOR POWER CIRCUITS