

EXAMINATION: AUTHORISATION A

April 2017

Practical Test

Time Allowed - 1Hr

Name & Surname _____
(In Block letters)

Index No. _____

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The attached drawings show the building plan for an apartment. The owner has marked on the building plan the electrical points he requires for the electrical installation. The electrical installation is to be supplied from a 230V, 50Hz single-phase supply. Air conditioning unit has not been included in the installation for simplicity.

- 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 test that need to be performed before energising the installation. (6 marks)
- f. Describe how you would perform a polarity test for this installation. (6 marks)
- g. Describe how you would perform an insulation resistance test for this installation. (6 marks)

END OF PAPER

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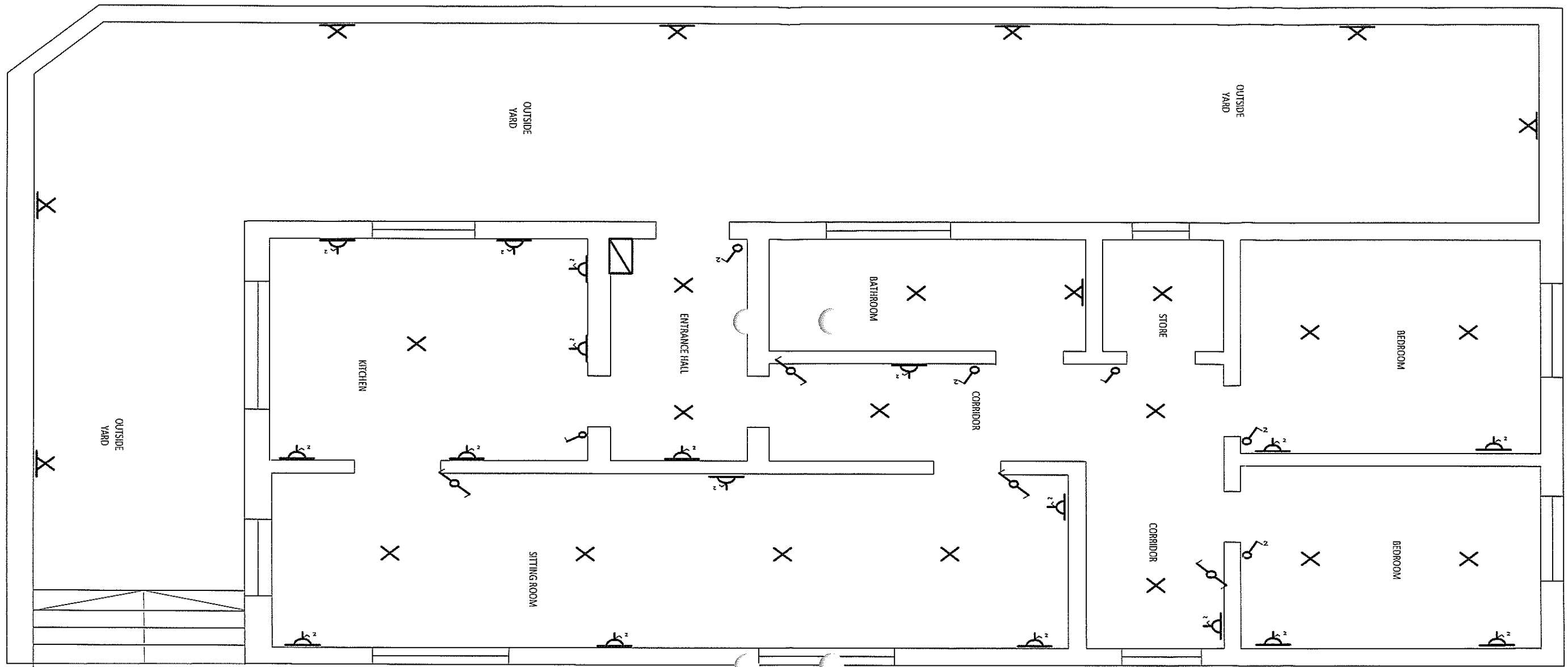
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



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Power Circuit Layout



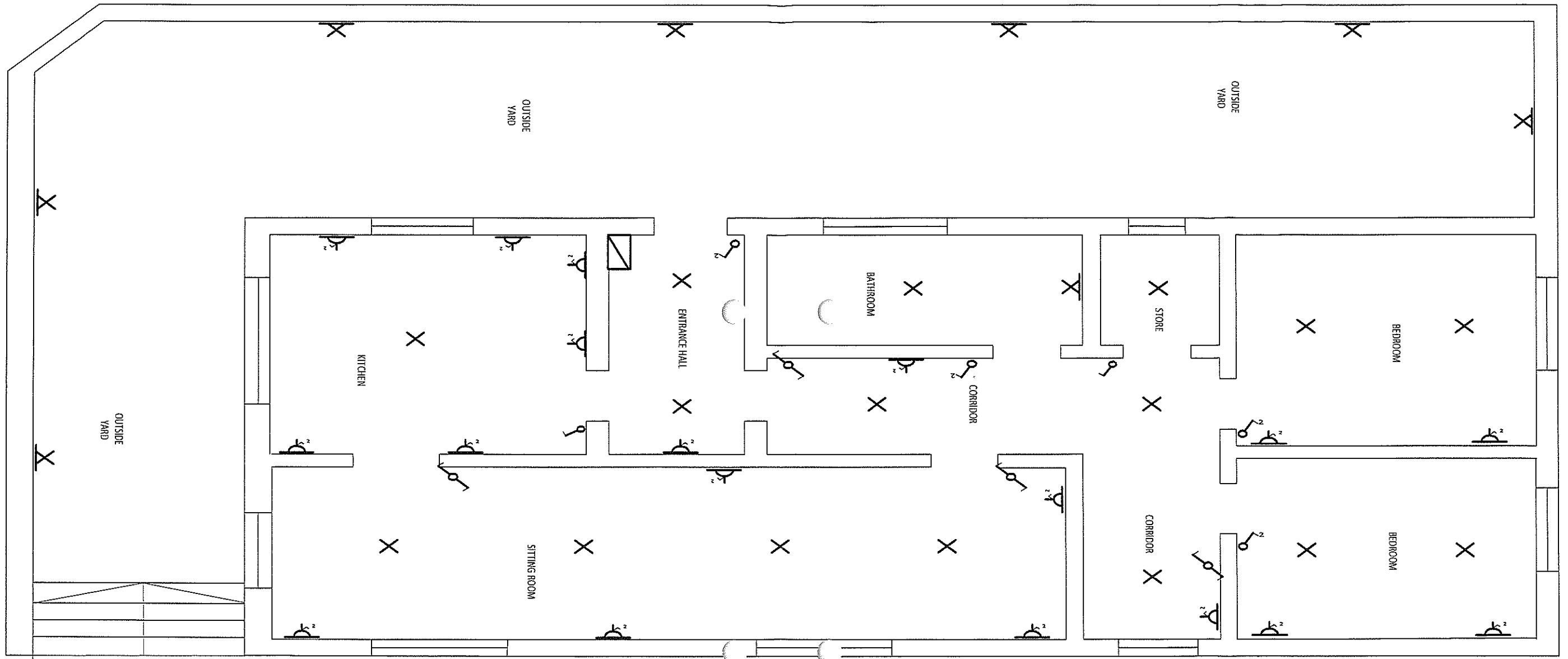
LEGEND

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








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Lighting Circuits Layout



LEGEND

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