

**Question 1 (10 marks)**

You are the Manager of Electrical Engineering at an underground mine. The mine is to install a dewatering pumping system at the rear of the longwall blocks. The pumping system will be installed within a cased borehole from the surface to an area in the goaf which will become flooded and therefore not be able to be inspected.

Your Mine Operator has requested that you advise him of the requirements to complete the project and an expected time frame. Include the following information:

- a) What type of certification will be required for the installation? (1 mark)
- b) In relation to the electrical installation:
  - i) Which items are 'safety critical' for the electrical installation? (2 marks)
  - ii) Briefly explain why each item in i) above is 'safety critical'? (2 marks)
  - iii) Which items will require a SIL assessment? (1 mark)
- c) On the spreadsheet provided develop an expected project plan from the start of the project to the completion, giving the expected time frames and project tasks (4 marks) (See spreadsheet over page)

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**Annelies Wilder-Smith**

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