QUESTION 5 (10 marks)

You are the Manager of Electrical Engineering at an underground coal mine that intends to purchase equipment for an additional development panel. The equipment will be mining a seam known to contain methane and carbon dioxide which will be pre-drained prior to mining.

The panel is to comprise a remote controlled continuous bother miner, 2 electric shuttle cars, auxiliary fan and ratio feeder. The equipment is to be powered from a substation located outside the hazardous zone and a distribution and control box (DCB) located within the featardous zone.

- Draw a single line diagram from the aubstation to the DCB, then from the DCB to all machines within the section nominating: (5 marks)
 - 6 Cable stress
 - ii) Approximate max lengths of cable
 - 10. Size of substation in XVA.
 - iv). Approximate maximum demand for each item of plant.
- Draw a single line diagram for the distribution and control tox and nominate on the single line diagram the types of protection that you would specify and expected fault levels at the (if marks).
 - i) Secondary side of the substation
 - DOB.
 - Mr. Buller miner

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L Reisser

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