

**QUESTION 1 (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 boiler 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 hazardous zone.

- a) Draw a single line diagram from the substation to the DCB, then from the DCB to all machines within the section nominating: (5 marks)
  - i) Cable sizes
  - ii) Approximate max lengths of cable
  - iii) Size of substation in KVA
  - iv) Approximate maximum demand for each item of plant
  
- b) Draw a single line diagram for the distribution and control box and nominate on the single line diagram the types of protection that you would specify and expected fault levels at the: (4 marks)
  - i) Secondary side of the substation
  - ii) DCB
  - iii) Boiler miner

# Engineering Science N1 Question Paper And Memos

**AN Whitehead**



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*Serials Holdings* Linda Hall Library,1983      **Ethical Issues in Business** Peg Tittle,2000-04-13 The core of this text comprises chapters on all the key issues of business in Canada today Each chapter includes a hypothetical case study and an introduction highlighting key ethical points two academic essays and a real life case study Questions for discussion accompany the essays and case studies The author has also included a general introduction to ethical issues and an overview of ethical theory a section on institutionalizing ethics discussing ethics officers programs codes etc and appendices providing excerpts from important classic contributions to ethical theory and from relevant Canadian law      **Scientific and Technical Aerospace Reports** ,1968-03 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      **alternative press index** ALTERNATIVE PRESS INDEX,2002      **Nature** Sir Norman Lockyer,1901      *The Mechanical World* ,1919      *U.S. Government Research & Development Reports* ,1968      **Research in Education** ,1971  
*Current Index to Journals in Education* ,1999      **The Athenaeum** ,1848      *Resources in Education* ,1996      **Serials Holdings in the Linda Hall Library** Linda Hall Library,1986      **Aero/space Engineering** ,1962      *Government Reports Announcements & Index* ,1984      **English Mechanic and Mirror of Science** ,1883

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