



**Part C**

1. A high-grade steep (80°) to flat (25°) dipping orebody, 10 m to 35 m wide is hosted in a highly jointed, strong rock mass, 1000 m to 2300 m below surface.
  - a) What mining method would you choose to extract this orebody and why would you use it in preference to other mining methods? [5 Marks]
  - b) Describe the mining method, layout and stope access with the aid of sketches. [5 Marks]
  - c) Discuss the purpose of sill pillars in this mining method, the extraction of sill pillars. [8 Marks]
  
2.
  - a) There is a slow trend from the late 20th century towards open pit mining operations. As you think what are the reasons for that? [6 Marks]
  - b) 'Prospecting' is one of a common word that is used to describe one initial stage of mine area selection process. what is the difference between 'Exploration' and 'Prospecting'? [5 Marks]
  - c) State the advantages and limitations of Reverse Circulation (RC) drilling. [7 Marks]