



BOARD OF STUDIES
NEW SOUTH WALES

(a) Laptop connected to mobile phone will transmit data through radio to the country telephone exchange. ~~This with then send via microwave to the next country~~ This is appropriate because the laptop transmits through radio and can do so successfully over long distances. The ~~country~~ country telephone exchange will then send to the next country telephone exchange through radio also because the maintains would make it hard for installation of cables. The country telephone exchange then sends to Sydney telephone exchange through radio also since the distance spans 260km and is along rural and suburban areas. This is then passed through optical fibre to the Head office building and is appropriate because it's a security area and is a short distance.

(b) The use of mobile technology gives advantages of portability and continuing to be able to work. Since work is largely based on communication the



mobile technology will allow her to have a phone to make and answer calls and also use it to transmit data through connecting with her laptop.

Also, if the phone is WAP enabled Jill could check mail, stocks and browse the internet even if she did not have her laptop. Through the combination of both she can access the internet and intranet if she has access to the net. Also the transmission speeds available now including GPRS allow for faster data transmission which saves time.

(c) The data dictionary will allow Jill to remember which fields contain what kind of data by the field name, data type and description. She could also if she wanted check field size to see how much space it needs. Jill can input the field names into the SELECT, FROM, WHERE and ORDER BY commands for SQL and therefore conduct her queries more effectively.