



Question 22.

a) Segment 1 - transmission medium micro-waves

from mobile phone. Appropriate because of wireless transmission over a short, distance.

Segment 2 - transmission medium twisted pair-

twsp is cheap and since ~~it~~ it is across mountains, there will be no interfering signals.

Segment 3 - transmission medium coaxial cable -

because signals are travelling through populated areas, there may be some interference from electromagnetic communications. Coaxial is protected from these.

Segment 4 - transmission medium - fibre-

optic cable - because in city, large volumes of ~~data~~ data are required to be transmitted at a fast speed, and carrying strong signals will not interfere with the transmission.

b) Advantages:

- She does not have to carry a cable around to plug into a phone socket
- She may be travelling to areas with no communication technology, so wireless transmission here is the only option.
- If she were to use a cable and plug into different destinations constantly, this would make it difficult to send information to her.

c) A copy of the dictionary would assist her in the query as in the first step of the query, 'select' she would be able to choose from the list of ~~the~~: 'Field name'. She would also be able to search more accurately in the 'where' stage as the data dictionary would tell her whether the data was numeric or alphanumeric. This would also benefit her in the 'order by' stage.