HSC 2002 - Information Processes and Technology Exemplar Sample 1 Question 22

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220)
Segment 1 - the laptop, connected to omobile
phone would use, radio waves as it's transmission
medium. Koo Mobiles are wineless and send
radic waves to a god of cellular stations that
would then go the the country terephone exchange.
Segment Z - Ward Use, microware transmission
between the antannaes on the 2 country
telephone exchange and epicetic the
towers. Microwaive would have to be used as mountains Babling wouldn't be on mountains and towers
are high so allow for clear transmission
of microwave waves.
segment 3 - would use whe transmission,
either culicial or fibre optic. Que to the distance
being 260km fibre optic would be best as
it is not susceptible to signal loss over long
distances and or affected by interference
02WB4

....



segment 4 - would use wire transmission, Cours per probably twisted pair as Missimposa sydney's telephone lines are twisted-pair cable. Twisted pair permits high data vates over shard distances and us it is twisted, wat rough end it is less succe inclined to signal interference. Panelogh Jill using mobile technology to undertake has many advantages her work * reduces costs of travelling to and from office every day & she is able to get in contact with office easily, an where, any time without boaring to lock for a phone box or wait until she is with a land line phone connection * doesn't have to be at a hotel to connect to backline # allows her to see her customers and more efficiently as a "travelling" work

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sales representatives & orders can be immeetially processed in real time, not having to wait until she beturns to office. * She can regieve confermation of orders that day and access any stal information from head office that may otherwise be unknown to her without this mobile technology CAData dictionary sharp would shaw Jill the data type of each field, allowing her to enter the connect data type into her SQL Quey. The one field nze is also shown so jill would know how to enter the data she is searching for brothe A data dictionary is a complete table on the nature of the database By knowing the fold name, size, type and description she would be able the increase the integrite

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accuracy of the data she enters into the SOL.
She would know, what taken to SELECT
file The tobe nome would be het
her correctly select where the salis
searching
By knowing the type of data, eq. numeric for cost
her sol would be more accurate. For eg. entering
the word "fifty dollars" waret block under the cost
field, which is numeric would give her an
inconvect result. It should be \$50
Knowing the field size also helps. Eq. if the
wine type freid is Bodean to either Kenner Kor
W (hed or white) and jill enters wine type = "red"
she won't recieve the results she is locking for.
for.
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