**How Data is Transmitted**

Page 1 of pdf Question. (write the question out and answer it)



They use simplex.

Page 2 of pdf Question. (write the question out and answer it)



HDMI is only for short distances as it uses parallel data transmission

Page 3 of pdf Question. (write the question out and answer it)



Advantage: packets can be sent quickly.

Disadvantage: it is complex, only good for small messages.

Page 4 of pdf Question. (write the question out and answer it)



DQW

Page 5 of pdf Question. (write the question out and answer it)



Symmetric key encryption, it is not recommended to use on WAN because the data is usually separated into either blocks or streams and will take a long time to send.

Page 6 of pdf Question. (write the question out and answer it)



Text can be put into a dictionary and recalled but images and sounds can only be partially compressed.

Page 7 of pdf Question. (write the question out and answer it)



9781903133781

9+8+9+3+3+7+1=40

7+1+0+1+3+8=20

40+3(20) = 100

100/10=10

Yes

9781405868052

9+8+4+5+6+0+2=34

7+1+0+8+8+5=29

34+3(29)=121

121/10=12.11.2019

No

Only one is a valid ISBN number

Page 8 of pdf Question. (write the question out and answer it)



01000001

01101100

XOR GATE

00101101

Use a seven letter word to demonstrate how to use a Vigenere cipher to encode a word. Write a brief description of how you encrypted the word.

Produce a guide to methods used by computer systems to detect errors from data transmission.

**You should:**

* Explain how a computer system can use parity checks
* Describe and compare how ARQ and FEC are used in error correction systems.