

NOTES  
NW – 5/5  
MD – 3/5.

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Section 1 Mark:

32 / 37 88 %

Section 2 Mark:

17 / 30 57 %

Section 1 – Networks

Out of 37 marks

Question 1

Name the series of Protocols for wireless communication

(1 marks)

Wifi

Question 2

Cat 5 cable is also known as?

(1 marks)

ethernet

Question 3

Name three forms of guided media and discuss an advantage of each

(6 marks)

- i) Fibre Optic – as the cable contains optical 2  
strands the information travels at the speed of light through it
- ii) Coxial – is a robust cable useful for 2  
large data
- iii) ethernet / Cat 5 cable – is widely accepted for its 2  
fast and reliable speeds on with a durable cable



#### Question 4

(6 marks)

Name three forms of unguided media and discuss an advantage of each

4. SAME
- i) Radio - while it can't transmit large amounts of data it has ~~out~~ a long range making it great for radios
  - ii) Infrared - this ~~used~~ uses a infrared led to ~~transmit~~ <sup>transmit</sup> data, it is cheap and usually low interference in a normal use case
  - iii) WiFi - while range is limited the ~~data~~ <sup>transmit</sup> rates are great for a network with enough range to cover a house

#### Question 5

(10 marks)

WiFi is a radio wave.

A homeowner is setting up a personal network that will include the devices below, make a

recommendation about the topology that should be utilised and draw a diagram to represent how

the devices would be best set up on the network and consider what frequencies they would be best

set to and method of connecting

Modem/Router 2.4Ghz and 5Ghz

Smart TV

PS5 Game Console

Smart Phone

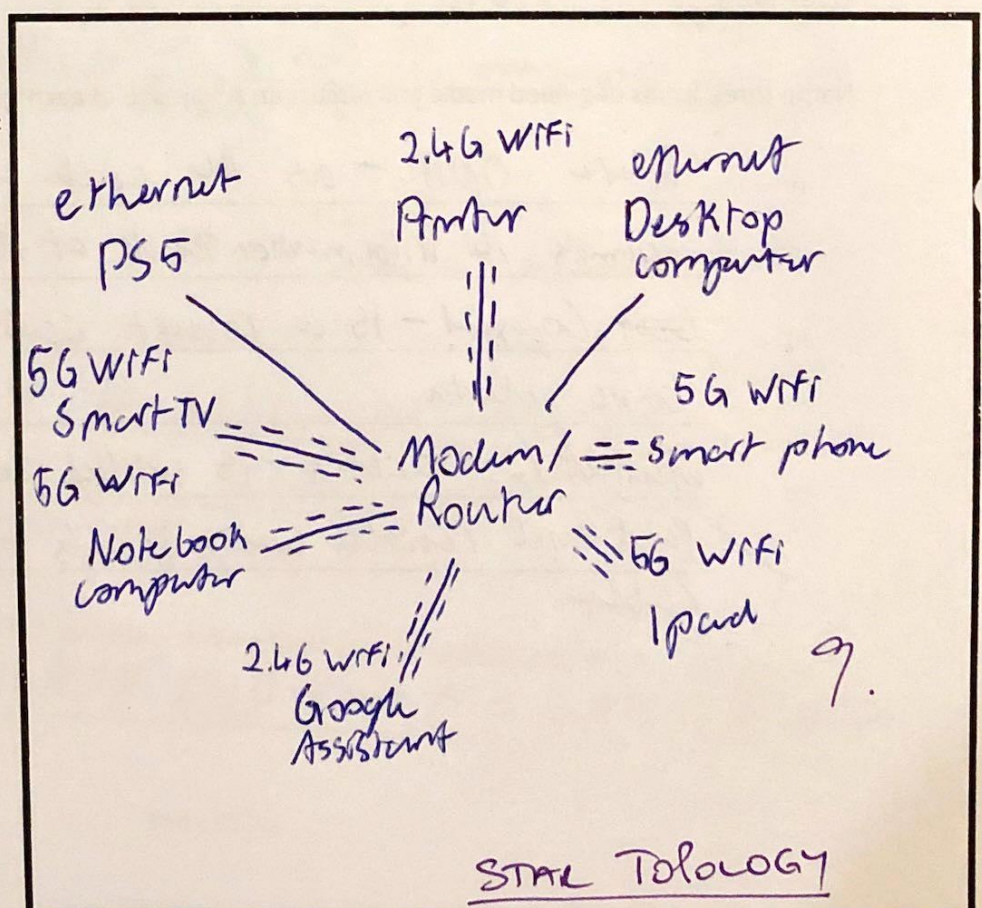
Ipad

Google Assistant

Desktop Computer

Printer

Notebook Computer





Question 6

Describe a Bus topology

(2 marks)

It starts at one terminating end stretching to another branching out to devices on the way

2

Question 7

Describe what a WAN is

(2 marks)

wide area network being the thing that connects networks in e.g. a city

2

Question 8

What device transmits digital data to and from a DSL line?

(1 marks)

home phone

Modem

X

Question 9

Describe the purpose of a NIC?

(2 marks)

Network interface card or NIC can be put in a computer usually through port to give the computer the ability to connect to the network

2



### Question 10

Discuss three (3) disadvantages of Networking

or ~~other~~ other threat (6 marks)

- i) Security as a virus could spread over the network or other threat ✓
- ii) privacy as a virus could spread over the network ✓
- iii) there is a single point of failure ✓ 6.  
meaning the whole network could go down