

Word Processor cover sheet

Please read the attached notes before completing this form.

Examination series

Centre No 68860

Candidate No 0000

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Examination for which a word processor was used

Awarding body	Specification title	Specification entry code	Unit/ component
Pearson	Computer Architecture and OS	ACCA4022	

Comments (if appropriate):

Some questions were answered in the answer booklet.
(Please select the appropriate response)

Yes ☒ No ☐

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Computer Architecture & Operating Systems

Please see blue book for workings out as half of questions are on here, half on the paper.

128 | 64 | 32 | 16 | 8 | 4 | 2 | 1

0000 = 0

0001 = 1

0010 = 2

0011 = 3

0100 = 4

0101 = 5

0110 = 6

0111 = 7

1000 = 8

1001 = 9

1010 = A

1011 = B

1100 = C

1101 = D

1110 = E

1111 = F

Question 1:

E.)

A 5 bit number can be represented from the following:

1, 2, 4, 8, and 16.

G.)

5MB File

20Mb/s upload speed

$5/20 = 4$

Answer = 4 seconds

Question 2:

B.)

The three separate buses spoken of in Von Neumann architecture are the data bus which is responsible for transferring data back and forth, the control bus which is responsible for the control of everything and the transport bus which transports everything around the architecture.

Question 3:

A:

- i.) 460Mb for a single layer, doubling it makes it 920Mb which means double layer DVD disc is 920Mb.
- ii.) A typical £80 rotating hard disk will normally feature around 1 terabyte of storage.
- iii.) A £10 flash drive normally features around 2 to 5Gb of storage.

B:

- i.) An 802.11g - wifi link has a transfer speed of
- ii.) An average rotating hard disk has the transfer speed of around 200Mbps
- iii.) An NVME M.2 SSD typically features transfer speeds of 500 - 600Mbps

C.)

A switch is used as a kind of extension lead if you will to allow devices on the network like computers for example to communicate with one another where there aren't many slots

available on the router. A hub works as a router allowing devices to be connected both wireless and wired to the network.

An example of where you would use a switch is when you are installing a CCTV system and there aren't enough ports on the router or the network video recorder, you would then get a switch to hook up the rest of the cameras.

An example of where you would use a hub is when you are installing a WiFi system and want to start connecting things up to the WiFi, you would then use a hub.

D.)

An IP Address is a line of numbers that is assigned to a local area/device.

✓ 600.

A MAC Address is similar to an IP address except is it assigned to a device.



Question 4:

Low cost PC for family use, word processing, accounts, email, surfing the net and watching full HD movies on modern 42" TV.

Suitable CPU:



For a suitable CPU I would recommend going with an i5 Intel Core 96000f and the reason for this is that while this CPU isn't very new or top of the market, from personal experience

It is a nice CPU especially for the requirements of the family. I chose this CPU over others as

I believe this is a cost effective, future proof CPU in the sense of if the family decides to branch out and invest into for example, PC gaming then the CPU will be able to handle not only the work load that the family will be doing such as word processing and the full HD movies but also more CPU intense games.

Sensible amount of RAM:

I believe that a sensible amount of RAM would be in the ranges of 8 to 16Gb of RAM storage. The reason I specified this range of storage would be due to the family probably having a lot of things happening at once on the PC as an example, word processing, accounts, emailing, watching videos, surfing the web meaning that they will need a comfortable RAM size in order to do all of this at once.

Type and size of non-volatile storage:

The type of non-volatile storage I would go for would be 1TB HDD of storage. The reason why I have gone for this and not gone for something more modern like a 500gb SSD is that the family are going to be doing word processing and other work on here meaning that file sizes will be quite large here and there in turn taking up quite a lot of storage space. This to me means that a family who are looking for a low cost PC would be dipping out of that low cost to middle cost range if they start looking in to things like M.2 SSDs and the such.

The input/output features/ports needed:

Some of the features this PC will need would be things like a WiFi card so that the family

can access the internet to surf the web, a disc tray that can play blu-rays in the event the family are watching movies on their 42" TV (the blu-ray addition is for future proofing and isn't expensive at all). They will need USB ports in order to plug things like keyboard and mice in especially if they are going to be doing work.

A suitable GPU:

A suitable cost effective GPU I recommend would be something like a GTX 1060. I could have went with something more cost effective but the reason I have chosen this one is not only due to my own experiences with this GPU but also that with the way GPU prices are at the moment, these are doing just fine for low end PCs.

As mentioned prior with the CPU chosen, this GPU allows the family to branch out to more graphically intense things like gaming as well as allowing the family to stream movies in full HD to their television.

Overall, I think the above specifications would be suitable for the family and their usage while also allowing the aspect of future proofing if they ever want to branch out to more intense workload on the PC while not amping the budget up too much allowing the PC build to stay low cost and cost effective.

