



12 Pages

1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right, fold over and seal down (using the label provided) to hide your name.
3. The answers must be legibly written. The Examiners can either ignore illegible script or have it typed and the expense of typing charged to the candidate.
4. Write your answers in ink.
5. Begin each answer on a fresh page. Do all rough work in the answer book and cross it through.
6. No part of this book is to be torn out; it must be handed in complete.
7. If more books than one are used, fasten them together using the tags available from the invigilator(s).
8. Every book must be handed in. In no circumstances may answer books, used or unused, be taken out of the examination venue.

[illegible]

(Gweir y'r ochr arall am y fersiwn Cymraeg)

SURNAME: Jones

FORENAME(S): Bailey

(See the other side for English version)

7	Nifer y Llyfrau Atebion a gyflwynwyd	
6	Rhif Sedd	
5	Lleoliad yr Arholiad	
4	Dyddiad ac Amser yr Arholiad	
3	Cod y Modwl	
2	Tali y Papur Arholiad	
1	Rhif Myfyrwr	

[illegible]

1. Rhowch yr holl wybodaeth y gofynnir amdani yn y blychau isod.
2. Rhowch eich enw yn y lle a ddarparwyd ar y dde, plygchw ef a'i selio i lawr (gan ddefnyddio'r label a ddarparwyd) i guddio'ch enw.
3. Rhaid i'r atebion fod mewn llawysgriften ddarlledadwy. Gall yr Arholwyr naill ai anwybyddu sgript annarllenedadwy, neu drefnu llddi gael ei theipio a chael yr ymgelysidd i dalu.
4. Ysgriftennchw eich atebion mewn inc.
5. Dechreuwch bob ateb ar dudalen newydd. Gwnewch unrhyw ffras nodiadau yn y llyfr atebion a thynnw llinell drwyddynt.
6. Ni ddylid rhwygo unrhyw ran o'r llyfr hwn; rhaid ei gyflwyno yn gyfan.
7. Os defnyddir mwy nag un llyfr, rhwymwch hwy gyda'i gilydd gan ddefnyddio'r tagiau sydd ar gael oddi wrth y gwyllwyr/gwythwyr.
8. Rhaid dychwelyd pob llyfr. Ni chaniateir mynd â llyfrau atebion, wedi eu defnyddio neu heb eu defnyddio, allan o'r lleoliad arholi o dan unrhyw amgylchladau.

Cyfarwyddiadau i Ymgeiswyr

12 Tudalen

Llyfr Atebion Arholiadau



Prifysgol Cymru
University of Wales
Trinity Saint David

CYFENN:

ENW(AU) CYNTAF:

Llenwch, plygwch a selwch
(gweler nodyn 2 isod)

128	64	32	16	8	4	2	1
0	0	0	1	0	1	1	1
1	1	0	1	1	0	1	0

1a a) A1) 23

$$\begin{array}{r} 23 \\ - 16 \\ \hline 07 \end{array} \quad \begin{array}{r} 07 \\ - 04 \\ \hline 03 \end{array} \quad \begin{array}{r} 03 \\ - 02 \\ \hline 01 \end{array} \quad \begin{array}{r} 01 \\ - 01 \\ \hline 00 \end{array}$$

1a a) A1) 00010111

1a b) A2) 218

$$\begin{array}{r} 218 \\ - 128 \\ \hline 090 \end{array} \quad \begin{array}{r} 90 \\ - 64 \\ \hline 26 \end{array} \quad \begin{array}{r} 26 \\ - 16 \\ \hline 10 \end{array} \quad \begin{array}{r} 10 \\ - 08 \\ \hline 02 \end{array}$$

1a b) A2) 11011010

1b a) B1) 10101101

$$\begin{array}{r} 10101101 \\ \downarrow \quad \downarrow \\ 128 \quad 64 \quad 32 \quad 16 \quad 8 \quad 4 \quad 2 \quad 1 \\ \downarrow \\ 128 + 32 + 8 + 4 + 1 = 170 \end{array}$$

1b a) B1) 170

1bb 11011

 $= 23$

$$\begin{array}{r}
 11011 \\
 168421 \\
 \downarrow \\
 16+8+2+1 \\
 \downarrow \\
 27
 \end{array}$$

$$\begin{array}{r}
 100 - 90 \\
 10 - 9 \\
 1 - 0.9 \approx 1 \\
 10 \div 36
 \end{array}$$

1bb 27

/3

1e 1, 2, 4, 8, 16

$$\begin{array}{r}
 2.5 \\
 19 \quad 8 \overline{) 20.0}
 \end{array}$$

19 2 seconds

Question No.

Examiner Only

Question No.

Examiner Only

Arholwr yn unig Rhif y Cwestiwn

Rhif y Cwestiwn

Arholwr yn unig

ai) 250 GB

3

aii) 1TB

aiii) 500GB

1/2

1/2

3

c) A hub is like a central point, so as there could be several devices connected to a switch. There would be several switches connected to a hub

3

d) A MAC address is a series of numbers, similar to a IP address to identify a system although unlike the IP address, MAC is on the mother board and can not be "refreshed" / changed

4

a) i3-3200 CPU

I have chosen the i3-3200 Intel CPU as it is now a very cheap CPU due to it being on the lower side of the i3 gens but is still plenty capable for the intended use of this system without any "hiccups"/performance spikes, all while being compatible with most boards.

b) Crucial 8GB RAM

I have chosen Crucial as they are very known and reliable. I believe 8GB will be plenty RAM for the intended use, making sure there will be enough for when they're multitasking if needed.

c) Crucial 500GB HDD

Crucial for the same reasons above. 500GB should be plenty space for storing several HD movies along side general files.

d) 2 USB type A, 1 USB type C, 1 ethernet, 1 optical drive.

2 USB type A for general use such as hard drives, etc, 1 type C for the connected

4 d) connection to a external TV/monitor while allowing high resolution, ethernet for a smooth streaming experience, and an optical drive for the use of CD's/DVD's.

e) I would recommend using the onboard graphics on the CPU as this would be plenty enough for the intended use.

1/12