



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]

(Gweler yr ochr arall am y fersiwn Cymraeg)

SURNAME:

FORENAME(S):

SUCIAN

(See the other slide 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	Tittl 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 ddarlennadwy. Gall yr Arholwyr naill ai anwybyddu sgrifft annarllennadwy, neu drefnu llddi gael ei theipio a chael yr ymgaisydd i dalu.
4. Ysgrifennwch eich atebion mewn inc.
5. Dechreuwch bob ateb ar dudalen newydd. Gwnewch unrhyw ffras nodiadau yn y llyfr atebion a thynnu llinell drwyddymt.
6. Ni ddylid rhwngo 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/gwylwyr.
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 Tüdalen

Llyfr Atebion Arholiadau



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

ENW(AU) CYNTAF:

CYFENN:

Llenwch, plygwh a selwch
(gweler nodyn 2 isod)

(a) 23₁₀ into Binary

$$\begin{array}{r} 32 \ 16 \ 8 \ 4 \ 2 \ 1 \\ 0 \ 1 \ 0 \ 1 \ 1 \ 1 \end{array} \quad 23 = 010111$$

(b) 218₁₀ into Binary.

$$\begin{array}{r} 128 \ 64 \ 32 \ 16 \ 8 \ 4 \ 2 \ 1 \\ 1 \ 1 \ 1 \ 0 \ 0 \ 1 \ 0 \ 0 \end{array} \quad 218 = 11100100$$

$$\begin{array}{r} 124 \\ + 64 \\ \hline 192 \end{array}$$

$$\begin{array}{r} 192 \\ 32 \\ \hline 124 \end{array}$$

$$\begin{array}{r} 124 \\ + 4 \\ \hline 128 \end{array}$$

~~Convert Base 10 numbers~~

(b) Convert binary to base 10.

10101101

$$\begin{array}{r} 128 \\ + 64 \\ \hline 192 \end{array} \quad \begin{array}{r} 160 \\ + 8 \\ \hline 168 \end{array} \quad \begin{array}{r} 168 \\ + 4 \\ \hline 172 \end{array} \quad \begin{array}{r} 172 \\ + 1 \\ \hline 173 \end{array} \quad 10101101 = 173_{10}$$

11011

$$\begin{array}{r} 16 \\ + 8 \\ \hline 24 \end{array} \quad \begin{array}{r} 24 \\ + 2 \\ \hline 26 \end{array} \quad \begin{array}{r} 26 \\ + 1 \\ \hline 27 \end{array} \quad 11011 = 27_{10}$$

①
C
a.

Convert hex to binary.

9B.

9	B
8 4 2 1	8 4 2 1
1 0 0 1	1 0 1 0

$$9B = 10011010$$

9 = 9
10 = A
11 = B
12 = C
13 = D
14 = E

1/2

b. C3.

C	3
8 4 2 1	8 4 2 1
1 1 0 0	0 0 1 1

$$C3 = 11000011$$

1/2

c. How many values can a 5 bit number represent.

32.

1/3

F. (i)

$$\begin{array}{r} 200 \\ \times 100 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 300 \\ \times 16 \\ \hline 1866 \\ + 400 \\ \hline 2266 \end{array}$$

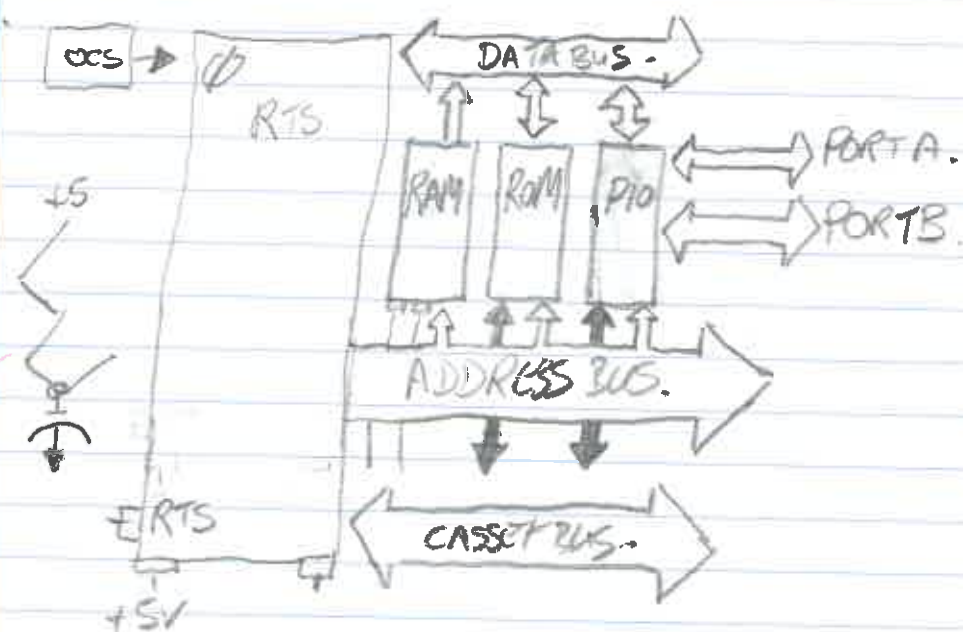
ii $\frac{2266}{10} = 226.6$

g. ~~20 x 5~~ 20 x 5 = 100

$$\begin{array}{r} 20 \\ \times 5 \\ \hline 100 \end{array}$$
 1.20 mins.

(2)

a.



- b
- DATA BUS - Carries data back and forth from RAM and ROM.
- ADDRESS BUS - SORTS out what DATA goes to where in the CPU.
- CASSETT BUS - Stores the Data from the ADDRESS BUS.

(3)

a.

(i) 750 Mb.

(ii) 250 GB.

(iii) 64 GB.

b.

(i)

802

x 20.

802

+ 16240

16240

802

17042

17,042

(ii)

③

C.

A Hub receives all the data traffic.
A Switch sends the data to the right location IP address.

3

d. A MAC Address is a permanent ID cannot be changed it's given at the point of Manufacture.

An IP address is given by your Internet provider so it can be ~~altered~~ change depending on where you are.

1/2

④

a. AMD Ryzen 7.

b. 16gb of Ram is ample for the tasks required of the PC.

c. 1TB Hard drive would be plenty of storage space for all the Family and office requirements.

The motherboard must have a ~~Hz~~ HDMI Port able to connect to the T.V.

4

Question No.

Examiner Only

Question No.

Examiner Only

Arholwr yn unig

Arholwr yn unig Rhif y Cwestiwn

Rhif y Cwestiwn

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