

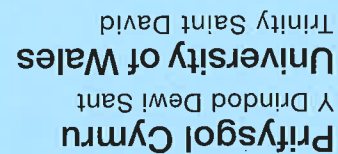


12 Pages

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 refuse to mark or charge 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.**

1	Student Number	2127515
2	Title of Examination Paper	Computer
3	Module Code	ALL4022
4	Date and Time of Examination	22/11/2023
5	Examination Venue	QP
6	Seat Number	E7
7	Number of Answer Books handed in	

(Gweler yr ochr arall am y fersiwn Cymraeg)

[illegible]

12 Tüdalen

1. Rhwch yr holl wybodaeth y gofynnir amdani yn y blychau isod.
2. Rhwch eich enw yn y lle a ddarparwyd ar y dde, plynwch ef a'i seilio i lawr (gan ddefnyddio'r label a ddarparwyd) i guddio'ch enw.

ENW(AU) CYNTAF:

Llenwch, plygwch a seliwch
(gweler nodyn 2 isod)

1. Rhaid i'r atebion fod mewn llawysgrifen ddarllenadwy. Gall yr Arholwyr naill ai anwybyddu sgript annarllenadwy, neu drefnu iddi gael ei theipio a chael yr ymgeisydd i dalu.
2. 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 amgylchiadau.
3. Os defnyddir mwy nag un llyfr, rhwymwch hwy gyda'i gilydd gan ddefnyddio'r tagiau sydd ar gael oddi wrth y gwyllwyr/gwilyr.
4. Ni ddylid rhwgo unrhyw ran o'r llyfr. Hwn; rhaid ei gyflwyno yn gyfan.
5. Dechreuwch bob ateb ar dudalen newydd. Gwnewch unrhyw fras nodiadau yn y llyfr atebion a thynnu llinell drwyddynt.
6. Ysgrifennwch eich atebion mewn inc.

[illegible]

(See the other side for English version)

0 One add

1
2 One benefit of road

3
4 $\begin{matrix} 3 & 2 & 1 & 0 \\ 4 & 2 & 7 & 9 \end{matrix}$

5
6 $(4 \times 16^3 + 2 \times 16^2 + 7 \times 16^1 + 9 \times 16^0)$

7
8
9
A = $\begin{matrix} 2 & 1 & 0 \\ 5 & 0 & E \end{matrix}_{16}$

B =
C = $(5 \times 16^2 + 0 \times 16^1 + 15 \times 16^0) = 1295$

D =

E =

F =

G = $\begin{array}{c|c|c|c} 111 & 010 & 100 & \\ \hline & & & \end{array}$ $\begin{array}{c} 4A2 \\ 4 \quad A \quad 2 \\ \hline 1081 \quad 1010 \quad 010 \end{array}$

0

1

2

3

4

5

6

7

8

9

10 =

A = 11

B = 12

C = 13

D = 14

E = 15

F = 16

One

~~1A(764)~~

~~1A(764)~~₁₀

~~394~~

ir $(764)_{10} = (1000000010)_2$

$764 \div 2 = 382$ remainder = 0

$382 \div 2 = 191$ remainder = 0

$191 \div 2 = 95$ remainder = 1

$95 \div 2 = 47$ remainder = 1

$47 \div 2 = 23$ remainder = 1

$23 \div 2 = 11$ remainder = 1

$11 \div 2 = 5$ remainder = 1

$5 \div 2 = 2$ remainder = 1

$2 \div 2 = 1$ remainder = 0

$1 \div 2 = 0$ remainder = 1

ib $(9A2)_{16} = (10011010010)_2$

$\begin{array}{c} 9 \quad A \quad 2 \\ \hline 1001 \quad 1010 \quad 0010 \end{array}$

ii (87)₁₀

$$97 \div 8 =$$

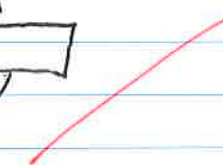


ii (504)₁₀



A

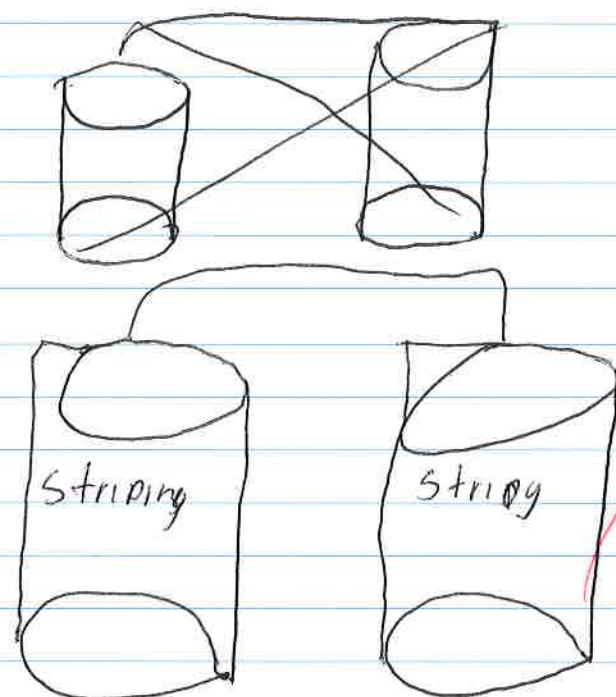
Fetch Execute Cycle



Five

A Raid splits data into two

B Figure Raid One



C One advantage of raid 1 is its ease of use.

One disadvantage of raid 1 is its data security.

One

$$11110101001_2 = (1651)_{10}$$

$$(1 \times 2^9 + 1 \times 2^8 + 1 \times 2^7 + 0 \times 2^6 + 1 \times 2^5 + 0 \times 2^4 + 1 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 0 \times 2^0)$$

001	110	101	001
1	6	5	1

3.5

$$111010101001_2 = (50E)_{16}$$



001	110	101	001
-----	-----	-----	-----

$$111010101001_2 = (50E)_{16}$$

$$(5 \times 16^2 + 0 \times 16^1 + 14 \times 16^0) = (1294)_{10}$$

1294

2.5

$IVA(4278)_{10}$

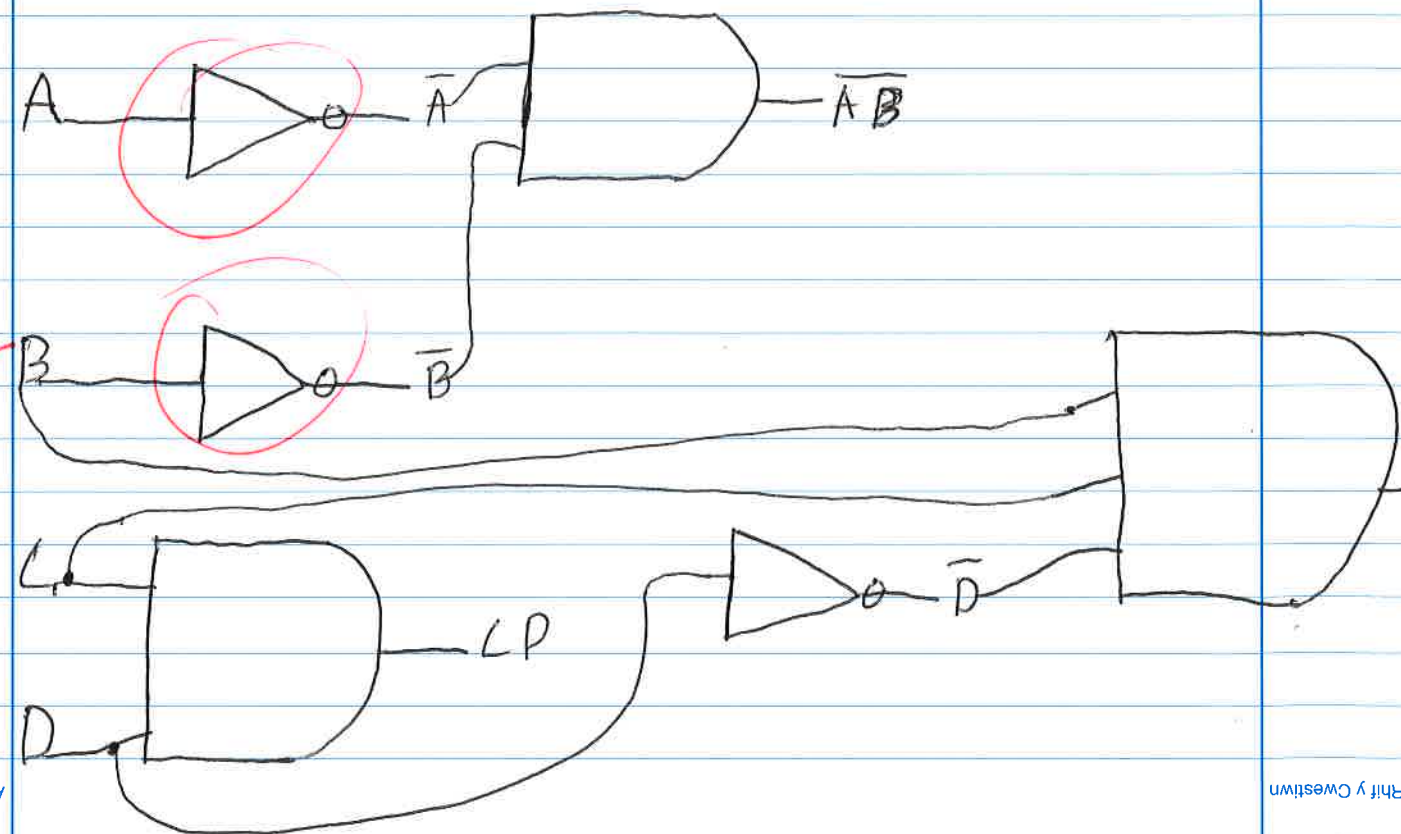
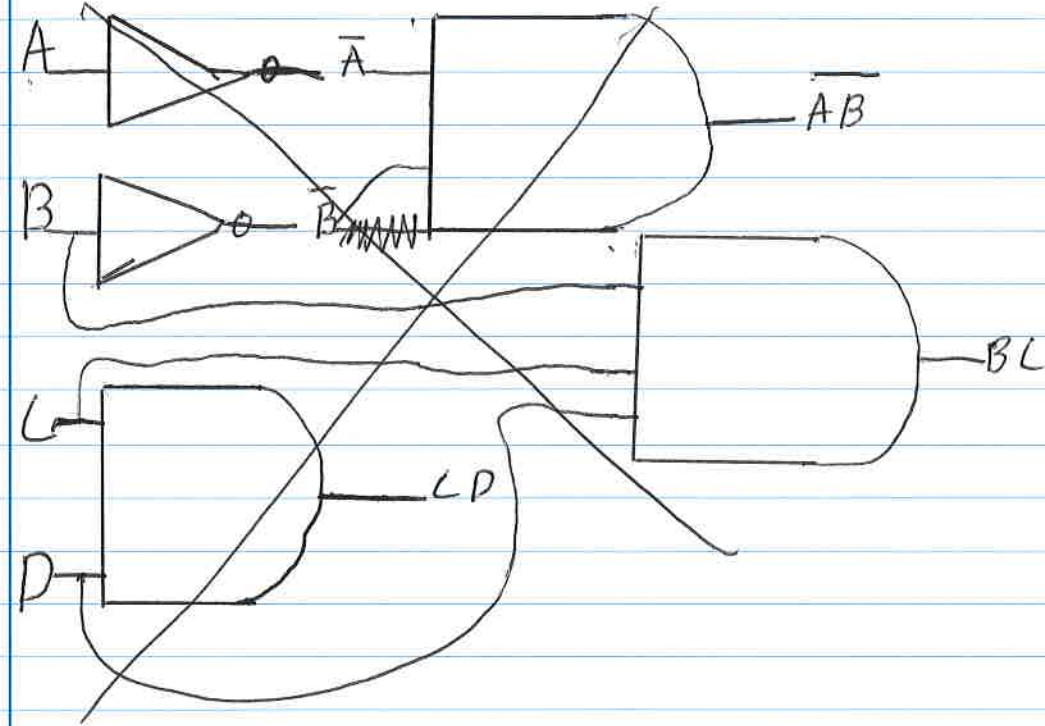
X

-BCD

~~$X = AB$~~

$$X = \overline{A}B + L\overline{D} + BCL\overline{D}$$

A



1v6 (670)g

X

Two

1. RAM - B - Memory
2. ETHERNET PORT - F - Communication Device
3. MICROPHONE - L - Input device
4. FLASH DRIVE - E - Storage Device
5. GAME PAD - L - Input Device

Question No.

THREE

50000