

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.

List the numbers of questions you have attempted	Total
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Office Use	08

(Gweler yr ochr arall am y fersiwn Cymraeg)



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

Llyfr Atebion Arholiadau

12 Tudalen

Cyfarwyddiadau i Ymgeiswyr

1. Rhowch yr holl wybodaeth y gofynnir amdani yn y blychau isod.
2. Rhowch eich enw yn y lle a ddarparwyd ar y dde, plygwch ef a'i selio i lawr (gan ddefnyddio'r label a ddarparwyd) i guddio'ch enw.
3. 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.
4. Ysgrifennwch eich atebion mewn inc.
5. Dechreuwch bob ateb ar dudalen newydd. Gwnewch unrhyw fras nodiadau yn y llyfr atebion a thynnu 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 gwyliwr/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 amgylchiadau.

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

(See the other side for English version)

[illegible]

Llenwch, plygwch a seliwch (gweler nodyn 2 isod)

CYFENW: _____

ENW(AU) CYNTAF:

question two.

categorise the following hardware based on its usages into following categories

a) CPU monitor - mouse.

b) memory - Ram

c) input device - modem

d) output device - flash drive

e) storage device - ethernet port

Device (f) communication device.

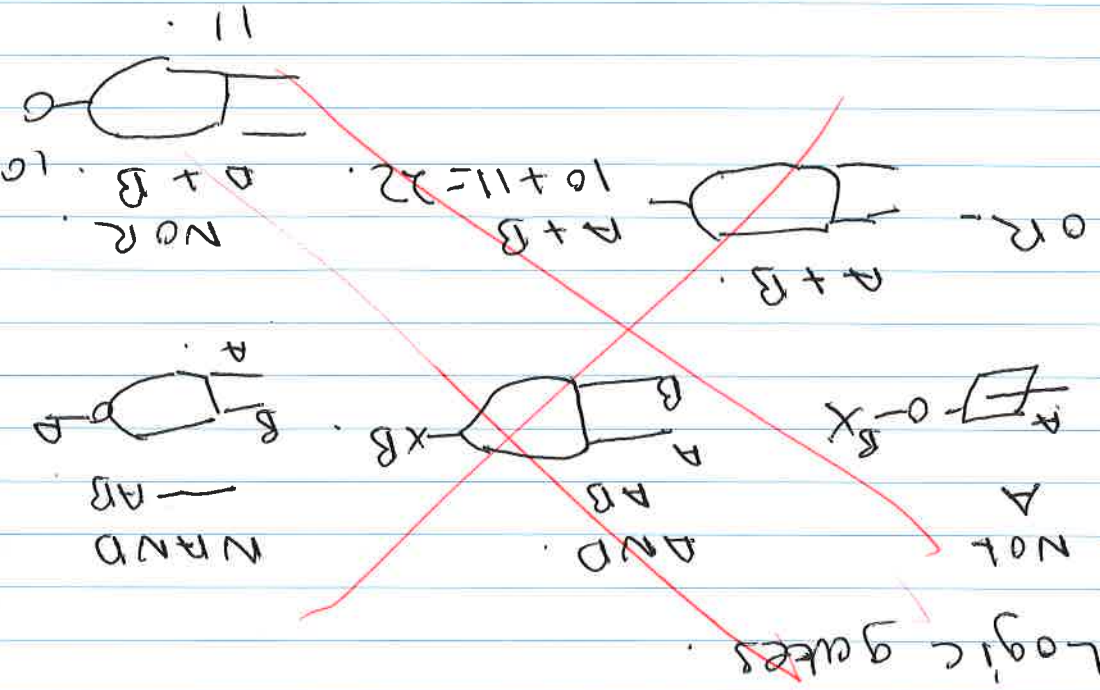
microphone.

question three.

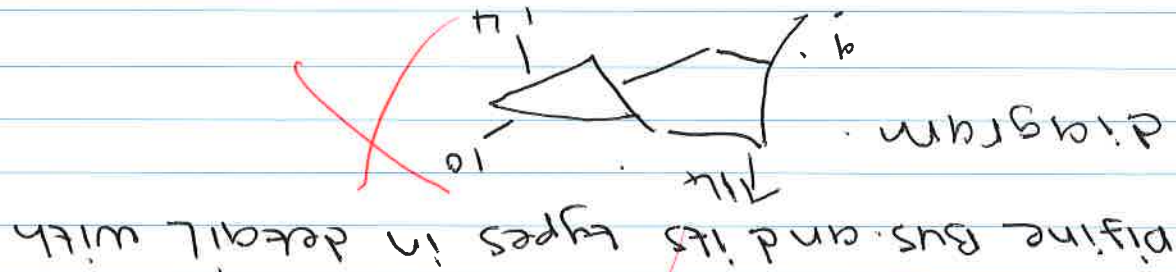
determining the time required to complete 1000 instructions by a single core CPU performs one instruction per clock cycle of 3.8 GHz. $(1 \text{ GHz} = 1 \times 10^9 \text{ Hz})$ $2.8 \text{ GHz} = 2.8 \times 10^9 \text{ Hz}$

construct logical circuit from the given logical expression and construct a truth table.

~~$a = b$~~



state at least five differences between Harvard and von Neumann architecture



question five

a. Define RAID and its levels in detail. a suitable diagram



$$q = \overline{A+B} \text{ CD} = 9 + 10A + 13 = 44$$

$$\begin{array}{r|l} 1 & 1 \\ 0 & 1 \\ \hline & X \end{array}$$

$$\begin{array}{r|l} 1 & 0 \\ 2 & 0 \\ \hline & B \end{array}$$

$$\begin{array}{r|l} 1 & 0 \\ 2 & 0 \\ \hline & B \end{array}$$

$$\begin{array}{r|l} 1 & 0 \\ 2 & 0 \\ \hline & B \end{array}$$

$$\begin{array}{r|l} 1 & 0 \\ 2 & 0 \\ \hline & B \end{array}$$

$$\begin{array}{r|l} 1 & 0 \\ 2 & 0 \\ \hline & B \end{array}$$

$$\begin{array}{r|l} 1 & 0 \\ 2 & 0 \\ \hline & B \end{array}$$

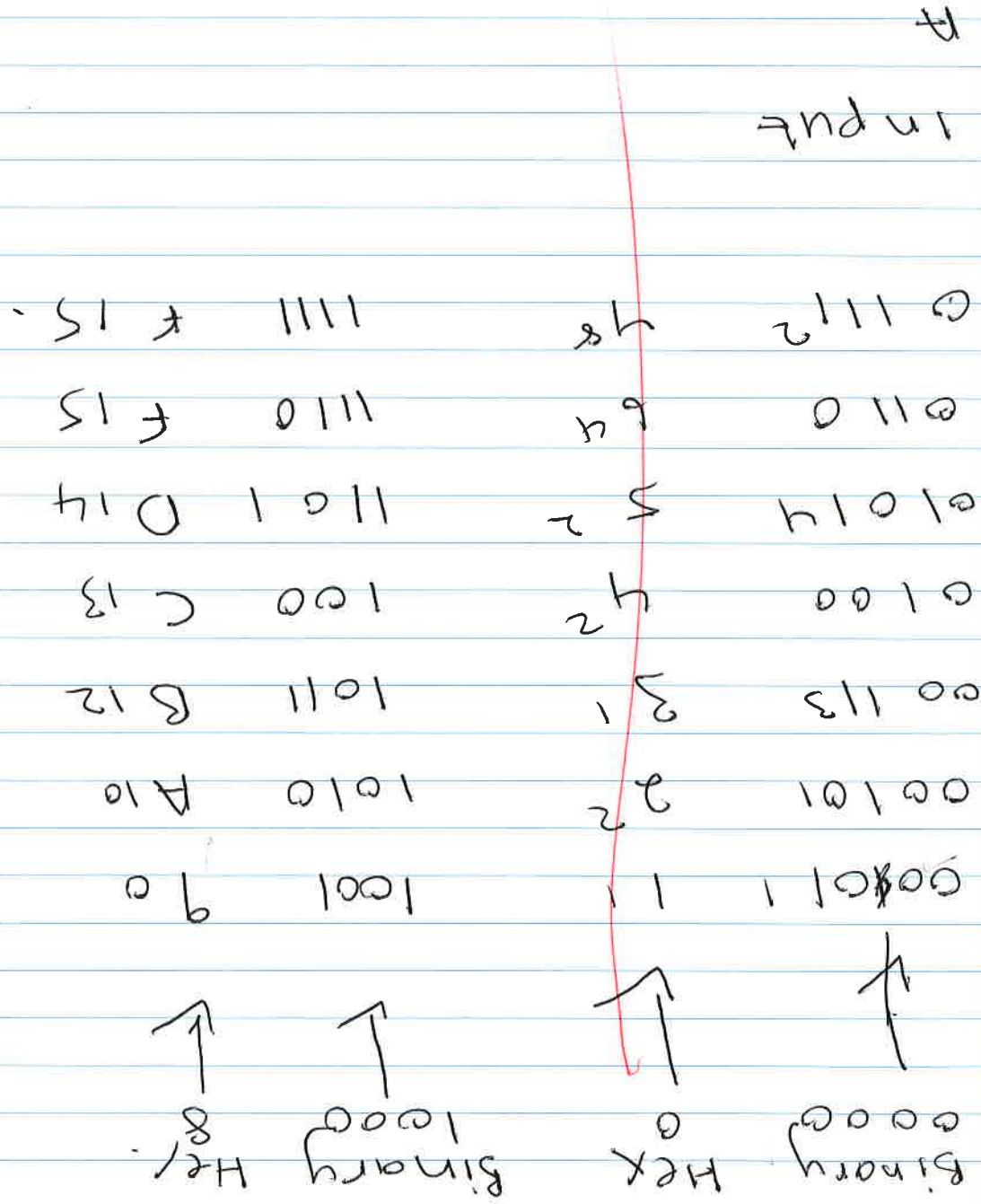


Diagram showing a 4x4 grid of inputs (A, B, C, D) and outputs (out put 5). The inputs are labeled A, B, C, D and the outputs are labeled out put 5. The grid contains handwritten numbers and arrows indicating a mapping or transformation.

Inputs	A	B	C	D	out put 5
1	1	1	1	1	1
2	1	1	1	1	2
3	1	1	1	1	3
4	1	1	1	1	4
5	1	1	1	1	5
6	1	1	1	1	6
7	1	1	1	1	7
8	1	1	1	1	8
9	1	1	1	1	9
10	1	1	1	1	10
11	1	1	1	1	11
12	1	1	1	1	12
13	1	1	1	1	13
14	1	1	1	1	14

