



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

Llyfr Atebion Arholiadau

12 Tudalen

Cyfarwyddiadau i Ymgeiswyr

- Rhowch yr holl wybodaeth y gofynnir amdani yn y blychau isod.
- 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.
- Rhaid i'r atebion fod mewn llawysgrifen ddarllenadwy. Gall yr Arholwyr naill ai anwybyddu sgrïpt annarllenadwy, neu drefnu iddi gael ei theipio a chael yr ymgeisydd i dalu.
- Ysgrifennwch eich atebion mewn inc.
- Dechreuwch bob ateb ar dudalen newydd. Gwnewch unrhyw fras nodiadau yn y llyfr atebion a thynnu llinell drwyddynt.
- Ni ddylid rhwygo unrhyw ran o'r llyfr hwn; rhaid ei gyflwyno yn gyfan.
- Os defnyddir mwy nag un llyfr, rhwymwch hwy gyda'i gilydd gan ddefnyddio'r tagiau sydd ar gael oddi wrth y gwyliwr/gwylwyr.
- 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	

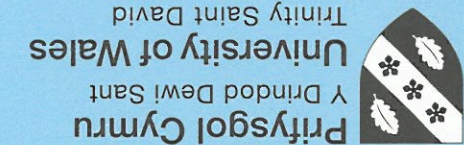
(See the other side for English version)

Llenwch, plygwch a seliwch
(gweler nodyn 2 isod)

CYFENW: _____

ENW(AU) CYNTAF: _____

Rhestrwch rifau'r cwestiynau a ymgeisiwyd gennych	At Ddibenion y Swyddfa
Cyfanswm	



Examination Answer Books

12 Pages

Instructions to Candidates

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.

(Gweler yr ochr arall am y fersiwn Cymraeg)

1	Student Number	
2	Title of Examination Paper	Computer Architecture and operating system
3	Module Code	ACC A4022
4	Date and Time of Examination	19/05/2025 9:30
5	Examination Venue	68860
6	Seat Number	12
7	Number of Answer Books handed in	

Office Use	List the numbers of the questions you have attempted	1a	5
		b	5
		c	3
		d	2
		e	3
		f	1
		g	3
		2a	0
		b	0
		3a	0
		b	2
		c	1
		4	0
		Total	25

Complete, fold and seal
(see note 2 below)

SURNAME: Darnworth

FORENAME(S): Zachary

Alfred

Eric

1 a. a

$$81 - 64 = 17 \quad 17 - 16 = 1$$

$$\begin{array}{r} 16x \\ 12 \\ 32 \\ 64 \\ 128 \end{array}$$

$$\begin{array}{r} 11 \\ 81 \\ 64 \\ 17 \end{array}$$

$$\begin{array}{r} 128 \\ 64 \\ 59 \end{array}$$

1 a. b

$$123 - 64 = 59 \quad 59 - 32 = 27 \quad 27 - 16 = 11 \quad 11 - 8 = 3$$

$$3 - 2 = 1$$

1 a. c

$$128 + 64 = 192 \quad 192 + 16 = 208 \quad 208 + 8 = 216$$

$$216 + 4 = 220$$

$$220 + 1 = 221$$

1 a. d

$$16 + 2 = 18$$

1 a. e

$$96 + 10 = 106$$

1 c. f

$$00111100$$

1 d. a

$$158 + 176 + 3 = 179$$

1 d. b

$$64 + 13 = 77$$

1 e

$$2^4 = 16$$

1 f. i

$$200 \times 300 = 60000$$

$$1/8 \text{ bytes per pixel}$$

$$60000 \div 3 = 20KB$$

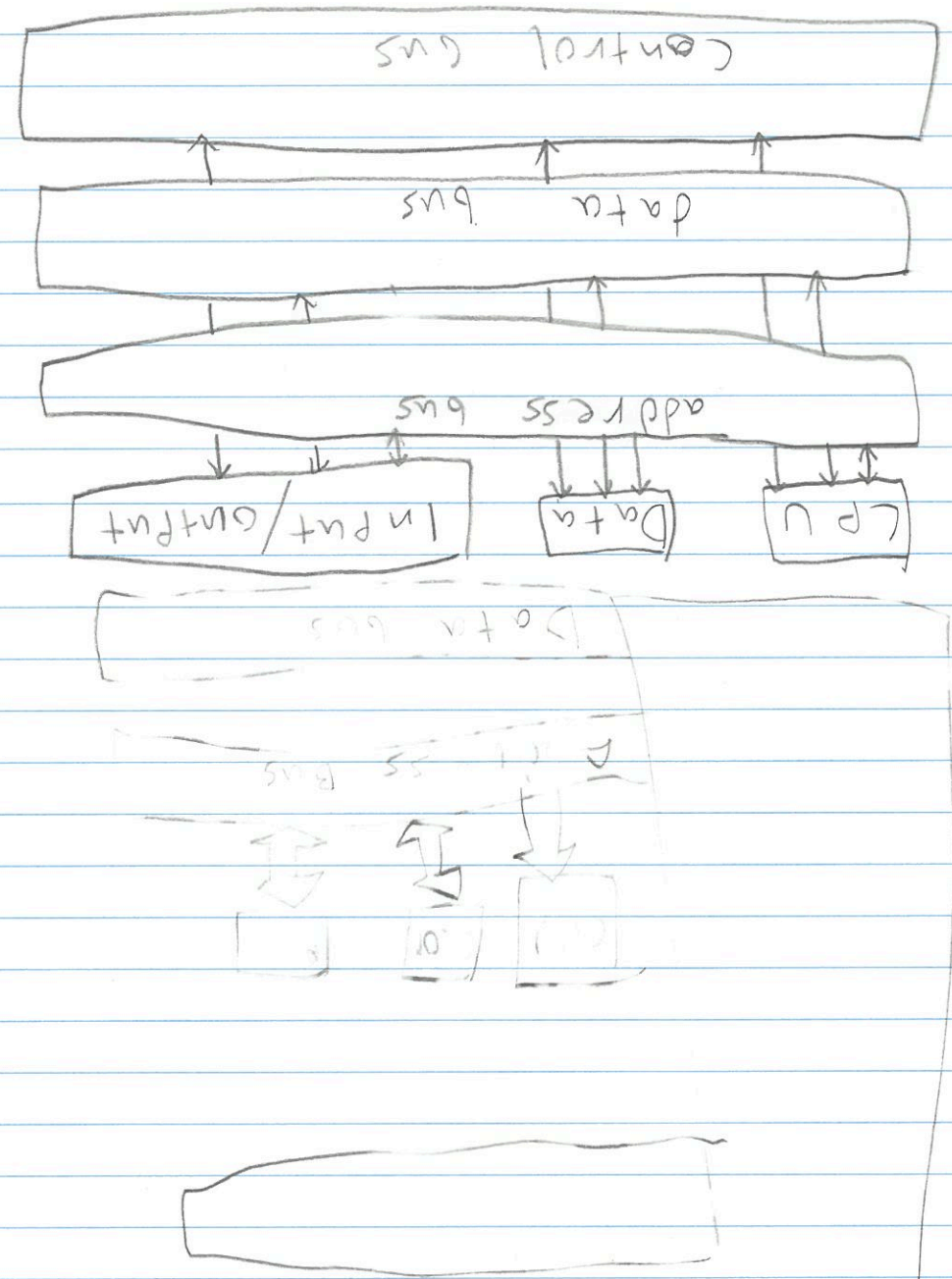
1 f. ii

$$200000 \div 10 = 10KB$$

1 g

$$200 \div 80 = 2.5 \text{ seconds}$$

~~2a~~



2a

2b a CPU is the main processor of a PC

~~2a~~

3 a. i 3000 mb/s 8 GB
3 a. ii 1500 mb/s 900 GB
3 a. iii 3500 mb/s 200 GB
3 b. i 2000 mb/s
3 b. ii 1000 mb/s
3 b. iii 4000 mb/s

DHCP stands for Domain Hyper Computer protocol. Its purpose is to generate an IP address for a PC

4 a. Intel Core 3 or 5. It is cheap and is a suitable processing unit

- b. 200
- c. about 500 400 GB for storing games and movies and work
- d. mouse, key board, monitor, Wi-Fi adapter, gaming controller
- e. Nvidia RTX 20 series since its cost effective

Rhif y Cwestiwn		Arholwr yn unig		Rhif y Cwestiwn		Arholwr yn unig	

