



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.**

1	Student Number	
2	Title of Examination Paper	Computer Architecture and network
3	Module Code	04x00002
4	Date and Time of Examination	30.04.18
5	Examination Venue	Tycoo College Main hall
6	Seat Number	5
7	Number of Answer Books handed in	1

List the numbers of the questions you have attempted	Office Use	
1	10	10
3	8	8
4	9	9
5	0	~~7~~
6	4	4
Office Use	31	31

(Gweler yr ochr arall am y fersiwn Cymraeg)

SURNAME: WILLIAMS

FORENAME(S): KIERON

DAVID

Nifer y Llyfrau Atebion
a gyflwynwyd

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	Teitl y Papur Arholiad	
1	Rhif Myfyriwr	

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

6. Ni ddylid rhwgo 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/gwilyr.
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.

3. Rhaid i'r atebion fod mewn llawysgriften ddarlennadwy. 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.

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

Cyfarwyddiadau i Ymgeiswyr

12 Tudalen

Llyfr Atebion Arholiadau



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

Llenwch, plygwch a seliwch

(gwele'r nodyn 2! isod)

CYFENN:

ENW(AU) CYNTAF:

(A)

Raid 0 - Striping

which holds two hard drives or data but if one hard drive fails then the array will collapse.

Raid 1 - mirroring

which holds to drives both with the same data, so if one fails ~~and~~ the array will be fine as the other drive has ~~the same~~ a backup of data

Raid 0+1 - Striping + mirroring

Raid 5 - hold 3 hard drives with data spread across them all so if one fails no data is lost.

Raid 5 should be used for this scenario as the data can be stored across multiple hard drives so if some computer is damaged or stolen then no data is lost and the array won't suffer

(B)

Disk Cleanup - is used to remove unwanted and unused files to free space on the HDD

Defragmentation - goes through the HDD and either deletes unused files or moves them so they are in a contiguous fashion

Fragmentation is when data is stored in a non-contiguous fashion.

(a)

i The Address bus - allocates IP addresses to the computer

ii Control bus - controls where the data is going

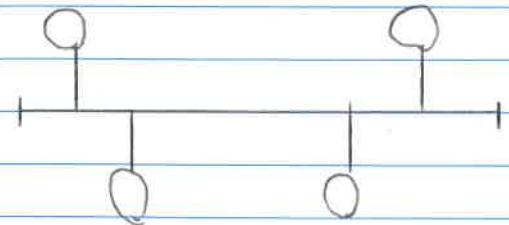
iii Data bus - allows data to be sent from one place to another

(B)

The Data bus is considered to be Bi-directional as Data travels in both ways also the control bus is Bi-directional as it needs to control the data going back and forth.

(C)

- Can hold upto 127 devices ✓
- it is not swappable ✓
- a portable source of data ✓
- holds multiple files
- Easy to lose
- damages easily
- data can be lost
- its limited to what it can do



(A)

- easy to communicate to other PCs
- easy to add computers to the network
- easy to access other people's work
- easy to have

(C) The session layer - shuts down when the session is over. and the transport layer allows data to travel across the network

0

