



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

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                   | 141652                             |
| 2 | Title of Examination Paper       | Network + Data Centre Management   |
| 3 | Module Code                      | ACCA6001                           |
| 4 | Date and Time of Examination     | 12 <sup>th</sup> Jan 2018<br>12:00 |
| 5 | Examination Venue                | Gym                                |
| 6 | Seat Number                      | G014                               |
| 7 | Number of Answer Books handed in | 1                                  |

| List the numbers of the questions you have attempted | Office Use |
|------------------------------------------------------|------------|
| 1                                                    | 742        |
| 2                                                    | 5          |
| 4                                                    | 4          |
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| Total                                                | 165        |

(Gweler yr ochr arall am y fersiwn Cymraeg)

Q1

- i. Fault - this is to identify possible faults ~~which~~ which could ~~occur~~ occur and provide solutions to maintain Network ~~connectivity~~ connectivity and reduce the probability of a Network disruption 2

Performance - this area is for managing the performance of a Network for example the speeds in which you can access data/apps also monitoring of performance to identify problems 1 1/2

Accounting - this area is to gather information about the Network, by this I mean who accessed the Network, what were they doing, when they ~~accessed~~ accessed the ~~Network~~ network, how long they were connected, what resources they used, 2

Security - this area is ~~based~~ based for the security of a Network, this could be anything from ~~identifying~~ identifying possible weak points in a Network and providing solutions, identifying specific Network attacks and how they could affect the Network then providing plans on how to handle such attacks, ~~general~~ general implementation of ~~security~~ security configurations 2

Management - this area is to manage the Network this could be ~~anything~~ anything ~~from~~ from general day to day management to planning Network expansion

11 —

Q2

- a
1. There's only 1 layer (core) with everything connected to it.
  2. two separate Internet ~~con~~ connections to core with only 1 Firewall.
  3. Servers are connected directly to the core which has Internet connections without ~~firewall~~.
  4. no distribution layer.
  5. only 1 core switch (no redundancy)  
If the core switch goes down the whole Network is down.
  6. IP addressing scheme and Subnetting is a mess  
Massive amount of IP addresses wasted
  7. multiple IP conflicts
  8. wide range of devices used, could cause incompatibility issues
  9. no ~~redundant~~ redundancy links for each area
  10. very poor Network design/layout

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b

- ii Network manager - final say on upgrades/expansions, recommending further network improvements

Network admin - general day to day maintenance responsible for any implementations, generally ~~Security~~ Security maintenance, identifying network issues

c -

Q4 Server load balancing is a solution used to ~~ease~~ ease the work load of servers depending of the size of the enterprise multiple servers could be required

- ii better performance

- better speeds
- Increased number of user can access at the same time

(5)

2

2

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