



## 12 Pages

1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right, fold the book in half and seal down (using the label provided) to hide your name.
3. The answers must be legibly written. The Examiners can either read your handwriting 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                   | P140466              |
| 2 | Title of Examination Paper       | Advanced<br>Roosting |
| 3 | Module Code                      | MBX0108F             |
| 4 | Date and Time of Examination     | 15/1/18<br>12.00pm   |
| 5 | Examination Venue                | GYM                  |
| 6 | Seat Number                      | 9046                 |
| 7 | Number of Answer Books handed in | 1                    |

(Gweler yr ochr arall am y fersiwn Cymraeg)

| List the numbers of the questions you have attempted | Office Use     |
|------------------------------------------------------|----------------|
| 1                                                    | 26             |
| 3                                                    | 4              |
| 4                                                    | 5              |
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|                                                      |                |
| Total                                                | 25 / 25<br>33% |

**Complete, fold and seal**  
(see note 2 below)

SURNAME: Chowdhury

FORENAME(S): KUMEN

[illegible]

(See the other side for English version)

guddio'ch enw.

- Rhaid i'r atebion fod mewn llawysgriften ddarllenadwy. Gall yr Arholiwr 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 rhwgo 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 gwyllwrr/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 amgylchadaw.

|                                                                        |                                                                                                                                 |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <p>1. Rhwch yr holl wybodaeth y gofynnir amdani yn y blychau isod.</p> | <p>2. Rhwch eich enw yn y lle a ddarparwyd ar y dde, plynghwch et a'i selfio i lawr (gan ddefnyddio'r label a ddarparwyd) i</p> |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|

## Cyfarwyddiadau i Ymgeiswyr

12 Tüdalen

## Llyfr Atebion Arholiadau



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

**Llenwch, plygwrch a seliwrch**  
**(gweler nodyn 2 isod)**

**CYFENW:**

ENW(AU) CYNTAF:

- Q1a) Neighbor table - where the router keeps the discovered neighbors such as it's connected interfaces that have been established. 2 ✓
- ii) Topology table - shows an overview of the links that have been established for the routing protocol, including IP addresses, routes, metrics. info about neighbor networks 1 ✓
- iii) Routing table - Display the eigrp routes between connected interfaces on routers. Display directly ~~connected~~ connected and eigrp routes. route/port 2 ✓
- iv) Advertised distance - the cost between the next hop router and destination, usually lowest path. 2 ✓
- v) Feasible distance - the cost between local and next hop router pos destination. 2 ✓

Q1b) Hello packets, used to discover and for adjacencies between connected interfaces.

Request - router will send a specific request to specific interface. 5 ✓

Reply - router will reply based on request

Query - router sends a specific query

Acknowledge - router acknowledges the packets received and/or queries received.

Q1c) Router 1 has a key id of 1  
Router 2 has a key id of 2

The Key ID is different, must be the same in order to authenticate.

Q1d) Router 1 has a different subnet mask than the one being sent as an update. R2 will still acknowledge it and send a reply stating R2 doesn't know, R1 will have to be reconfigured.

Q3a) Router ID is the local ID given in the process of ~~that~~ configuring OSPF, it is local to that router only.

3b) It's prefix, its local

3b) Distance Vector

EIGRP

OSPF

ULSM

CLASSLESS

Low cost / best path

Link-State

RIP-1-2

CLASSFUL

NO ULSM

IS-IS

3c) Looks at the lowest metric/cost for best path  
Designated Router - the router that is chosen for the path selection to which the traffic is going towards.

Backup Designated Router - backup of the designated router, the traffic will be passed to the BDR if the DR fails.

Q4a) Administrative distance is the cost between the connected interface for path selection between routers.

Connected interface - 100

Static route - 90

EIGRP - 150

OSPF - 125

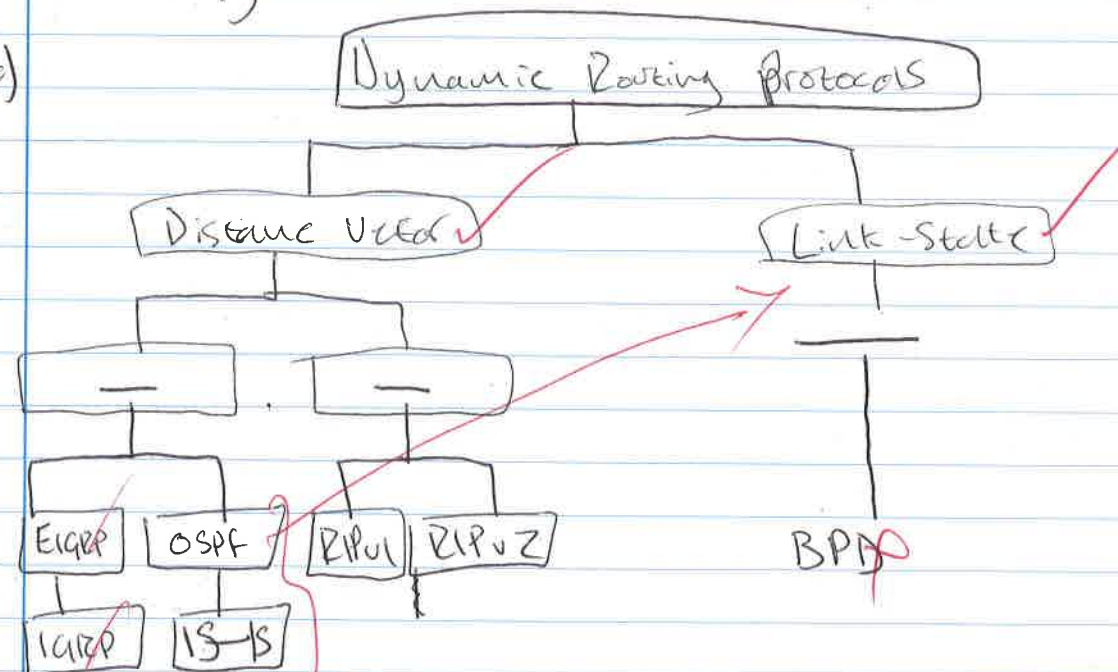
Unknown - 0

Q4b) R1 is not including the backup link within its EIGRP routing process.

R2 is also not including the backup link in its routing process.

The static link and EIGRP link could collide, the bandwidth could be modified to run a superior topology.

Q4c)



Question No.

Examiner Only

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Arbeitsvertrag

Arholwr yn unig Rhif y Cwestiwn

Rhif y Cwestiwn

Question No.

Examiner Only

Arbeitsvertrag

Rhif y Cwestiwn