



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 read your answers in your own 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 the questions you have attempted	Office Use
1	20
3	8
4	20
Total	48 / 20 64%

(Gweler yr ochr arall am y fersiwn Cymraeg)

FORENAME(S): Rhys

Prysgol Cymru
Y Prindod Dewi Sant
University of Wales
Trinity Saint David



Cyfarwyddiadau i Ymgeiswyr

12 Tudalen

ENW(AU) CYNTAF:

CYFENN:

Лленвч, рлгвч а селвч
(гвелер нodyn 2 isod)

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

3. Rhaid i'r atebion fod mewn llawysgriften ddarlennadwy. Gall yr Arholwyr naill ai anwybyddu sgript annarlenadwy, 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 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 gwyllyll/wr/gwyllyr.

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.

arholi o dan unrhyw amgylchiadau.

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

(See the other side for English version)

[illegible]

neighbor table

1. a) The ~~neighbor table~~ in EIGRP lists all of the ~~ne~~ routers that are directly connected to the router. The topology table contains a list of all the networks connected to the routers in the neighbor table. The routing table contains the route information for the networks made using DUAL algorithm.

The advertised distance is the distance ~~from a~~ router to a network that is sent out in its routing information.

The feasible distance is the distance to that network from another router. It is the distance from one router to the other plus the advertised distance.

- b) EIGRP uses 5 different packets and they are:

- Hello
- Acknowledgment
- Update
- Query
- Reply

- c) The key id's on the links are different this can be fixed by either changing R1 to use key ID 2 or R2 to use key ID 1.

- d) R2 Thinks that it is connected to 10.0.0.0/8 already because of auto-summary. Disabling auto-summary will fix the issue.

3 a) i) The router ID is used to work out the DR and the BDR.

ii) The three criteria for working out the router ID are, the lowest IP address, the highest interface and

c) OSPF uses a Designated Router and a Backup DR for routing updates. This prevents chaotic traffic in a network since any topology changes the router will inform the DR. The DR then sends the update out to other routers. The BDR takes over if the DR fails.

b) Distance vector routing protocols send out either the initial set up send out periodic updates so if a link goes down it will take a little while for the information to be sent out. Distance vector protocols are also less intensive on the router hardware. Whereas link state protocols send out updates whenever there is a change. This makes running link state protocols very intensive on the router hardware.

3

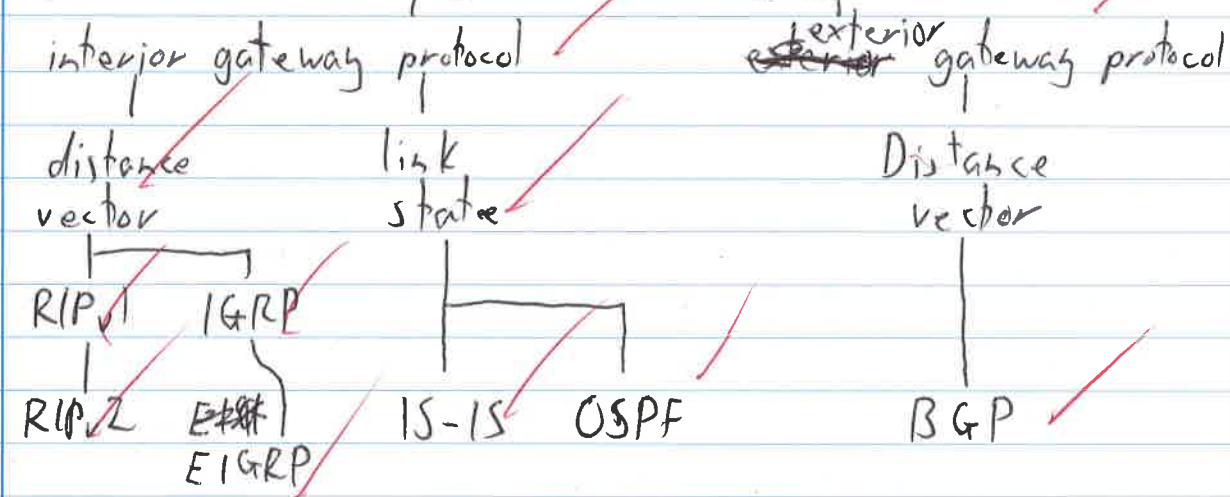
9

8

4. a) Connected interface: 0
static route: 81
EIGRP: 90
OSPF: 110
Unknown: 255
External EIGRP: 170
EIGRP summary route: 5

b) The router will use the ~~static route~~ over the ~~router~~ routes learned through EIGRP over the static since they were configured with a AD higher than EIGRP's. The static routes were configured as floating static routes.

c) dynamic routing protocols



3

12

20

Question No.

Arbeitsvertrag

Examiner Only

Rhif y Cwestiwn

Question No.

Arbeitsvertrag

Examiner Only

Rhif y Cwestiwn

[illegible]

Arholwr yn unig

Arbeitsvertrag