

LOCATION: SWANSEA

LLEOLIAD: ABERTAWE

LEVEL 6

LEFEL 6

EXAMINATION PERIOD
MAY 2016

CYFNOD ARHOLIADAU
MAI 2016

MODULE CODE: M3X8644
Network Management

TIME: 2 HOURS

ANSWER THREE QUESTION OUT OF FOUR

Equipment or materials required – None

Adnoddau neu ddefnyddiau sydd eu hangen - Dim

ANSWER THREE QUESTIONS

1. First Exam Question

- (a) In reference to network Management, what is the difference between:
- i. Reactive system **(2 Marks)**
 - ii. Proactive system **(2 Marks)**
- (b) Name and discuss the three parts of the simple network management protocol (SNMP) framework. **(15 Marks)**
- (c) A network management system is built from two major components:
- i. Name them **(2 Marks)**
 - ii. State the steps a practical approach should follow **(4 Marks)**

2. Second Exam Question

- (a) You are responsible to monitor a network for a company, write the commands to implement NetFlow on R1 in figure 1 below.

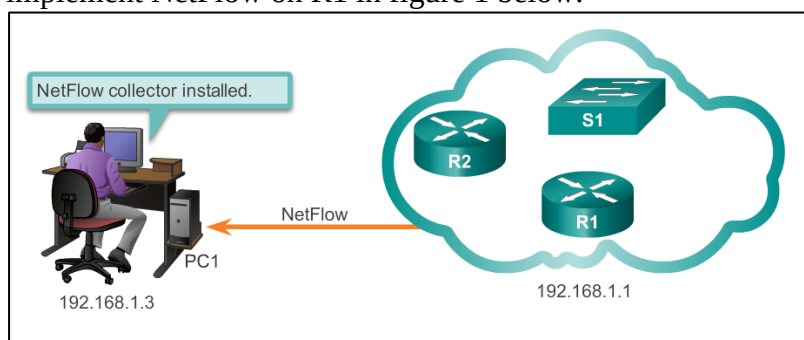


Figure 1

- (6 Marks)**
- (b) What is the purpose of NetFlow? State the combination of key fields use by it. **(11 Marks)**
- (c) In reference to Syslog for network monitoring what are the purposes of the following
- i. Service timestamp **(4 Marks)**
 - ii. Syslog server **(4 Marks)**

3. Third Exam Question

(a) In figure 2 below, a wireless client is not connecting to the WLAN

i. If there is no connectivity, how would you troubleshoot the problem?

(10 Marks)

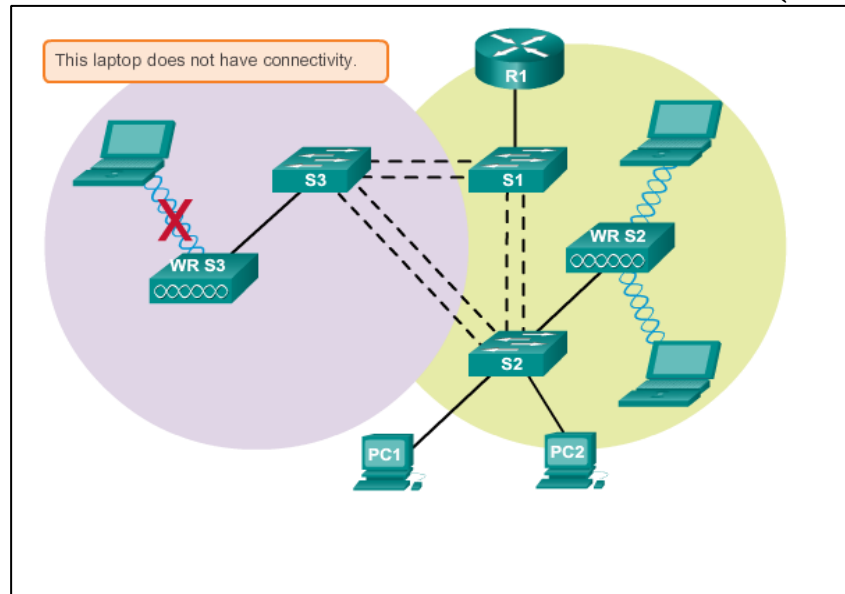


Figure 2

ii. How would you defend the WLAN against wireless networks attack?

(9 Marks)

(b) What are three main troubleshooting approaches used to resolve network problems?

(6 Marks)

4. Fourth Exam Question

(a) As a Network Specialist you are asked to upgrade a network infrastructure that consists of 4 departments. You are also required to implement Wireless Network for each department. Each department operates on a different subnet for ease of identification and network management.

- Propose a wireless network design of your choice for each department. The maximum number of users in any department is 30.
- The IP network address used is 172.17.21.0 and subnet mask 255.255.255.0
- Outline all the necessary requirements that would be needed for the new design.
- Provide a labelled network diagram to aid in your proposal.
- State any assumptions made

(25 Marks)

Diwedd/End