

## BAIT1013 Introduction To Computer Networks

### Tutorial 6: Network Layer

Q1. a) With reference to Figure 1-2, answer the following questions: (202003 TAR UC Resit)

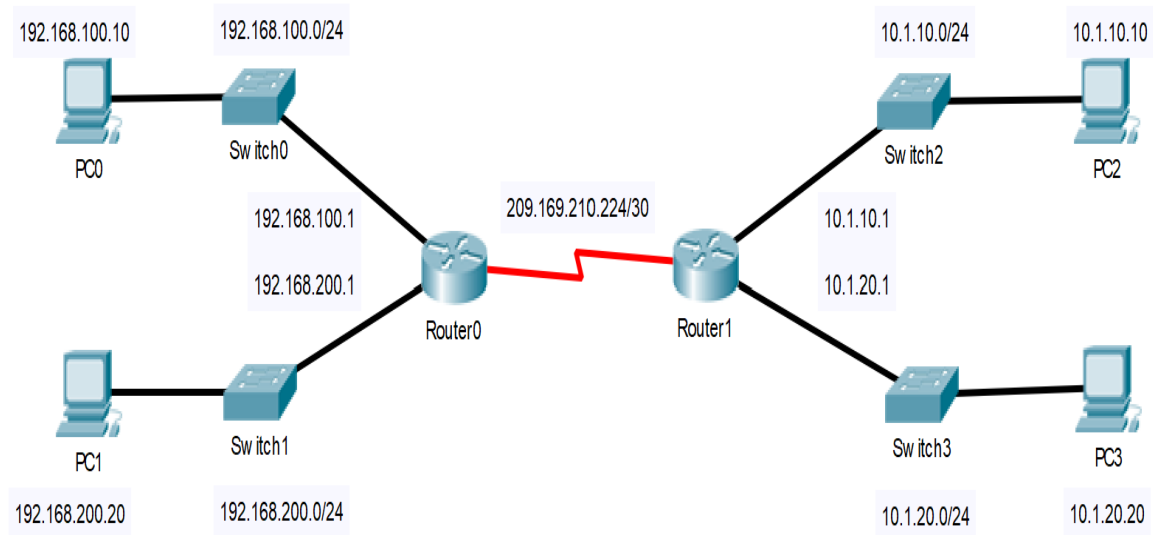


Figure 1-2: Network Topology Diagram

(i) Identify the directly-connected routes and remote routes for Router1.

	Directly-connected routes	Remote routes
Router1		

(5 marks)

(ii) How many networks are shown in Figure 1-2?

(1 mark)

(iii) What is the gateway address to be configured in PC3 to allow it to communicate with PC2?

(1 mark)

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Q2. a) With reference to Figure 2, answer the following questions:

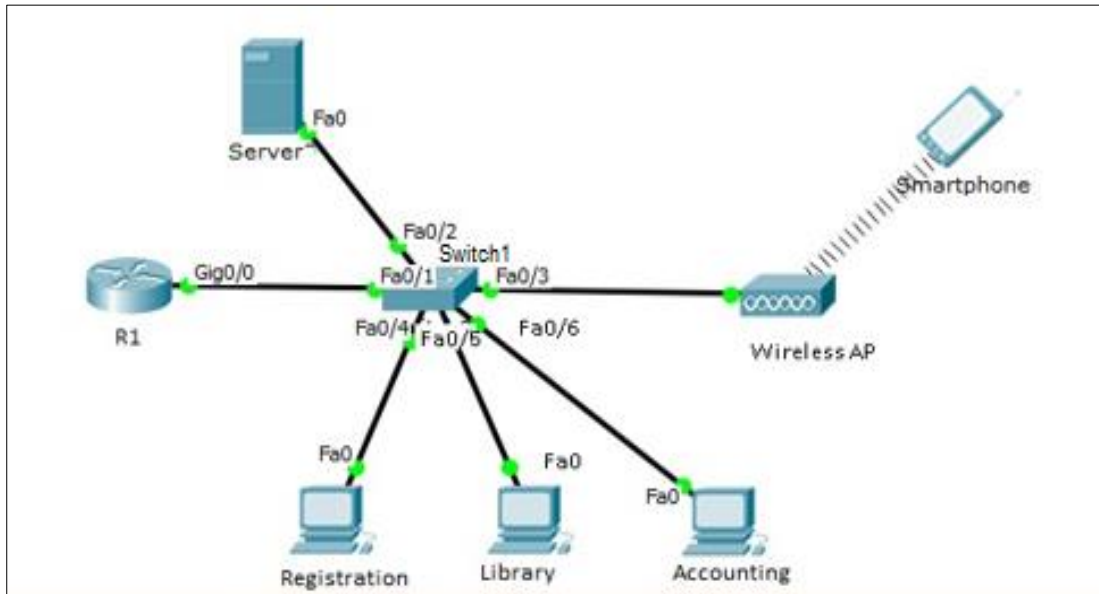


Figure 2: A branch network

- (i) In Figure 2, identify the default gateway for Server and Smartphone. Indicate the device name and the interface clearly in your answer. (201605 TAR UC, resit) (4 marks)

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- (ii) “When Registration PC wants to send a message to Library PC, it is not required to configure default gateway in both PCs.”

Do you agree with the above statement? Justify your answer.  
 resit)

(201605 TAR UC,  
 (7 marks)

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Q3. Figure 4 shows the network topology diagram of Sunrise Ltd.

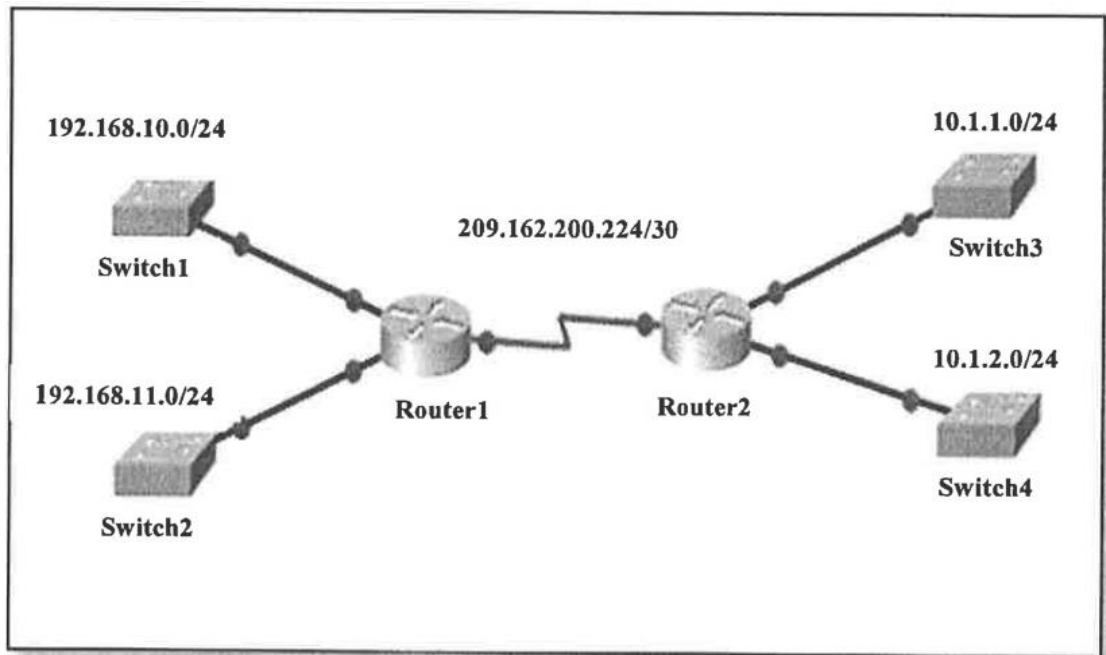


Figure 4: Network Topology Diagram

Based on the diagram shown in Figure 4, locate directly connected routes and remote routes for Router 1. (201709 TAR UC Main) (5 marks)

	Directly Connected Routes	Remote Routes
Router 1		