

Tutorial 10: Application Layer

Q1. The functionality of application layer in X model fits roughly into the top three layers of the OSI model. Draw the Table 1 and answer the item (1) to item (4) in your answer booklet. (201605 TAR UC, resit) (2 marks)

OSI model	(4) <u>X model</u>		
(1)			
(2)	Application layer		
(3)			

Table 1: Networking Model

Q2. With reference to Figure 1, answer the following questions:

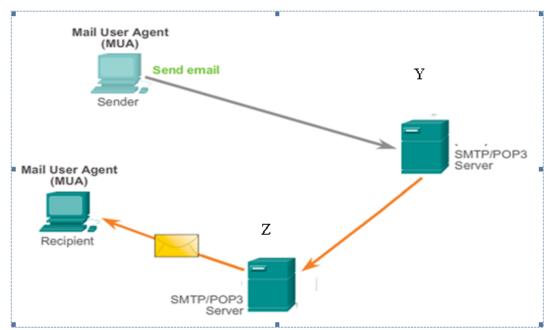


Figure 1: Email Operation

(i) Identify the type of mail agents labeled with Y and Z. (201609 TAR UC, Main) (3 marks)



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(ii) Discuss THREE (3) types of mail agents involved in the new) (6 ma
local mail server for sending and receiving daily emails to their clients. (i) What are the TWO (2) types of protocols and their respective port numbers essential in developing the new application? (201603 TAR UC, resit) (201603 TAR UC, resit)	
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<u>ial 10: A</u>	Application Layer
(a)	Describe how the DNS works by using the destination address: www.cisco.com . (201603 TAR UC, resit) (8 marks)
The I	Dynamic Host Configuration Protocol (DHCP) service enables devices on a network to information from a DHCP server.
(i)	Give FOUR (4) examples of the information obtains from a DHCP server (201605 TAR UC, resit) (2 m
(ii)	With the aid of diagram, illustrate the FOUR (4) steps process of DHCP. (201605 TAR UC, resit) (12 m



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