

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II **SESSION 2017/2018**

COURSE NAME

: BASIC COMPUTER NETWORK

COURSE CODE :

DAT 21203

PROGRAMME CODE :

DAT

EXAMINATION DATE:

JUNE / JULY 2018

DURATION

: 2 HOURS 30 MINUTES

INSTRUCTION : ANSWERS ALL QUESTIONS.



THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES



Q1	(a)	Discus	Discuss Three (3) functions of Transport Layer.				
					(6 marks)		
	(b)	Discus	(6 marks)				
		D:00	Differentiate between WAN and LAN topology.				
	(c)	Differe	(4 marks)				
	(d)	Draw	Draw a diagram that matches between TCP/IP and OSI layered architecture.				
						(4 marks)	
Q2	(a)	Identify the classes of the following IP addresses:					
		(i)	172.16.0.1/22				
		(ii)	192.168.0.1/24				
		(iii) (iv)	10.16.0.1/8 198.168.0.1/25				
		(v)	175.16.0.1/16				
		(,)	1701101011710			(10 marks)	
	(b)	Detern	Determine the host range of the following IPs and netmasks.				
		(i)	191.168.1.10	255.255	5.240.0		
		(ii)	172.16.0.1	255.255	.252.0	(10 montra)	
						(10 marks)	
02	(a)	State switch configuration commands for the following requirements					
Q3	(a)	State switch configuration commands for the following requirements.					
		(i)	Entering into a p	rivilege mode	<i></i>	(2 1)	
						(2 marks)	
		(ii)	Enforcing conso	le password	TERBUK	Λ	
					TEROUN	(2 marks)	
		(iii)	Showing VLAN	configuration	l		
						(2 marks)	
		(iv)	Telneting a switch terminal that has 192.168.1.10/24 address.		ess.		
						(2 marks)	
		(v)	Activating a swit	tch port on a r	outer		
						(2 marks)	

rd ?

	(b)	Figure Q3 shows four routers used to inter-connects six LANs. LAN1 and LAN 6 are connected through multiple routers:					
		(i)	Identify the IP address for the R4 Fa0/0 interface.	(2 marks)			
		(ii)	Identify the IP address for the R4 Fa0/1 interface.	(2 marks)			
		(iii)	Identify the IP address for the R2 Fa0/0 interface.	(2 marks)			
		(iv)	State the command used to configure R2 router using RIP routing that LAN4 is able to connect the router R1 through LAN3 network.	~ .			
				(2 marks)			
		(v)	State the command used to configure R2 router using RIP router that LAN6 is able to connect the router R1 through LAN5 network.	O 1			
				(2 marks)			
	NW - W-1						
Q4	(a)	List F	Five (5) network topology.	(5 marks)			
	(b)	Draw	(10 marks)				
	(c)	State '	Three (3) objectives of VLAN.	(3 marks)			
	(d)	List T	Wo (2) services of presentation layer.	(2 marks)			



- Q5 Three LANs located in two building A and B shown in **Figure Q5**. In order for the LANs to be interconnected and combined into single network, routers R1 and R2 were used.
 - (a) Determine the IP addresses for the PC1, PC2, PC3, PC4 and the HTTP server.

(5 marks)

(b) Show the configuration commands for the R2 router using static address so that all PCs are accessable to the HTTP Server.

(5 marks)

(c) Determine the IP addresses for the S1 Fa0/0, S2 Fa0/0, R1 Fa0/0, R1 Fa0/1 and R1 Fa0/1/0 interfaces.

(5 marks)

(d) Determine the IP addresses for the S3 Fa0/0, S3 Fa0/0, R2 Fa0/0, R2 Fa0/1 and R1 Fa0/1/0 interfaces.

(5 marks)

- END OF QUESTIONS -



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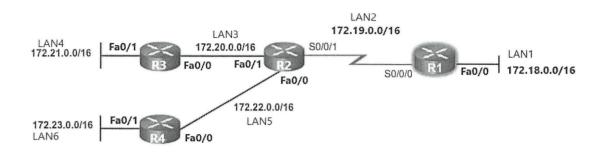


Figure Q3



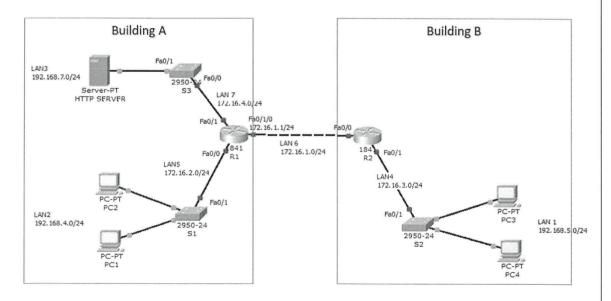


Figure Q5