

ADVANCED
General Certificate of Education
January 2012

Applied Information and Communication Technology

Assessment Unit A2 13

assessing

Unit 13: Networking and Communications

[A6J71]





TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Answer all fourteen questions on the paper in the spaces provided.

Quality of written communication will be assessed in **questions** 3, 5 and 10.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

ADVICE TO CANDIDATES

You are advised to take account of the marks for each part question in allocating the available examination time.

For Examiner's use only			
Question	Marks available	Marks	Remark
1	5		
2	12		
3	12		
4	4		
5	12		
6	4		
7	6		
8	6		
9	4		
10	12		
11	6		
12	10		
13	4		
14	3		
Total	100		

Student Bounty Com

6522

Name of device:	
Property 1:	
Property 2:	
	[5]

address by the manufacturer of the card Client server networks are useful when the network needs to be			or Only mark
Within a bus network, each network card is allocated its own IP address by the manufacturer of the card Client server networks are useful when the network needs to be scaleable			1
A token ring network uses a special timer to send the data around the ring	d		
A switch must always be used in token ring networks			
In a star network the most important part is the RJ 12 connection	n		
All network topologies cost the same			
Peer to peer systems are used in large networks			
Wireless networks are less secure than cabled networks			
Star networks need hubs or switches to function properly			
Terminators are used widely in bus networks			
A network operating system is needed in a client server network			

[12]

Property 2: ____

A large company uses a hybrid topology of which one part is a star topology and the other part is a bus topology. In the box below, tick () the phrases which are associated with either bus or star topologies.

Holds MAC addresses in the server	
Can change network card codes	
Passes a token	
Uses coaxial cabling	
Is part of the OSI model	
It needs a switch to function properly	
It uses a central hub	
It uses terminators	
It needs a printer to be installed	

[4]

[6]

ď	Only
7	mar

	SE	
Describe three benefits to a school of having a network of co available for its students.	omputers Stitle Physics	or Only mark
Benefit 1:		THE
		7.00
		13
Benefit 2:		
Bolletit 2.		
Benefit 3:		
	[6]	

A family wants to use the Internet at home and is planning to have a router installed. In the box below, tick () the characteristics which would normally be associated with a router.	r Only mark
It allows only family members to log onto the home network	12.00
It allocates IP addresses to computers in the home network	1
It controls a proxy server	
It checks each family member's password when they log on	
It can split the family's single network into two logical separate networks	
It can show all the networks that exist in the neighbourhood	
It switches off when not being used	
It keeps information about other routers in 'routing tables'	
It broadcasts data in packets	

[4]

Feature 1 Feature 2

_____[4]

r	Only
٦	nark

A small company is considering the use of wireless technology. Describe one advantage of having a wireless connection and two disadvantages of adding a wireless connection to a network.	r Only mark
Advantage 1:	34.0
	133
Disadvantage 1:	
Disadvantage 2:	
[3]	

SHIIdenHounty.com

THIS IS THE END OF THE QUESTION PAPER

SHILDERIH BOUNTS, COM

SHILDERIH BOUNTS, COM

Student Bounts, com