SIIT ITS413

## ITS413 - Quiz 6 Answers

Name:	<u> </u>		
ID:	Mark:	(	(out of 8)
Quest	ion 1 [6 marks]		
	or false:		
a)	If the availability of a torrent is 0.75 then 75% of the peers		-
1 \	copy of the torrent.	TRUE	FALSE
b)	If the availability of a torrent is 0.90 then 90% of the peers		
`	copy of the torrent.	TRUE	FALSE
c)	J I		
4)	1	TRUE	FALSE
u)	If the availability of a torrent is less than 1 then a client wi entire torrent in the current swarm.	TRUE	FALSE
e)	A tracker will normally implement a web server, and main		
C)	and uploading a torrent.	TRUE	FALSE
f)	An indexer will normally implement a web server, and ma	_	·-
1)	and uploading a torrent.	TRUE	FALSE
g)	A tracker will normally implement a web server, and main	_	
8)	,	TRUE	FALSE
h)	An indexer will normally implement a web server, and ma	intains a list of	f .torrent files.
,	,	TRUE	FALSE
i)	A .torrent file will contain the address of the tracker as wel	l as the addres	ss of all peers
Í	accessing that torrent.	TRUE	FALSE
j)	A .torrent file will contain the address of the tracker as wel	l as information	on about the file(s)
	in the torrent.	TRUE	FALSE
k)	A .torrent file will contain the address of the indexer as we	ll as the addre	ss of all peers
	accessing that torrent.	TRUE	FALSE
1)	A .torrent file will contain the address of the indexer as we		
	in the torrent.	TRUE	FALSE
m)	A peer that has downloaded 200 pieces of a 300 piece torre		
		TRUE	FALSE
n)	A peer that has downloaded 200 pieces of a 300 piece torre		
,		TRUE	FALSE
0)	A peer that has downloaded 100 pieces of a 100 piece torre		
`		TRUE	FALSE
p)	A peer that has downloaded 100 pieces of a 100 piece torre		
`	A 1' 4 1 D 4 4 17 1	TRUE	FALSE
q)	A client peer sends a Request message to request a <i>block</i> o		
رت	A alient near gonds a Dequest massage to request a mines	TRUE	FALSE
r)	A client peer sends a Request message to request a <i>piece</i> or		-
ره	A client peer sends a Request message to request an entire	TRUE	FALSE
s)	A chefit poor serius a request message to request an entire	TRUF	FALSE.

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t) A client peer sends a Request message to request a *individual file* in a torrent from a remote peer. TRUE **FALSE** 

u) If peer X is choked by peer Y, then peer X cannot upload any blocks to peer Y.

TRUE FALSE

v) If peer X is choked by peer Y, then peer Y cannot download any blocks from peer X.

TRUE FALSE

w) If peer X is not choked by peer Y, then peer X can download blocks from peer Y.

TRUE FALSE

x) If peer X is choked by peer Y, then peer X cannot download any blocks from peer Y.

**RUE** FALSE

## **Question 2** [2 marks]

a) Explain an advantage of a Peer-to-Peer system [1 mark]

## Answer

Does not depend on a single server (no single point of failure); good scalability in resources, as addition of new users leads to new clients and servers being available; Reduces the performance load on original servers (meaning lower cost servers/links are needed for content providers).

b) Explain a disadvantage of a Peer-to-Peer system. [1 mark]

## Answer

Easy to control access to resources and functionality; simple and efficient algorithms are available for locating and accessing content; easy to maintain an index of available content.