SIIT ITS332

## ITS332 - Quiz 2

Mark:	(out of 5)
	Mark:

Some questions ask you to give a C function name as an answer. You can select from the following functions: accept, bind, bzero, close, connect, exit, fgets, fork, listen, read, socket, sprintf, sscanf, strcpy, write.

## **Question 1** [2 marks]

Which function

- a) causes a TCP SYN segment to be sent from client to server?
- b) creates a new process?

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

Assuming a TCP connection has been established between host A and host B, consider the following code that executes on the hosts, assuming the program on Host B is running and then the program on Host A starts:

- a) How many bytes are in the TCP Data segment (excluding header) sent from Host B to Host A? [1 mark]
- b) What is printed on the screen at Host B? [1 mark]

SIIT ITS332

## **Question 3** [1 mark]

HTTP is used for web browsers to request files from web servers. The format of a request message is:

GET url HTTP/1.1

and the format of a response message is:

HTTP/1.1 statuscode

where common status codes are:

200 Ok

304 Not Modified

401 Unauthorized

404 Not Found

Consider two web servers, www.example1.com and www.example2.com, with the following files in their root web directory:

www.example1.com www.example2.com

file1.html file1.html file2.html file2.html file3.html

Draw a diagram indicating the messages sent between browser and server if the browser user types in the URL <a href="https://www.example1.com/file3.html">www.example1.com/file3.html</a> into the address bar.