

## ITS323 – Quiz 7

Name: \_\_\_\_\_

ID: \_\_\_\_\_

Mark: \_\_\_\_\_ (out of 10)

### Question 1 [4 marks]

Consider two hosts with the following properties:

- Client
  - IP: 64.32.16.1 Application port: 40096 Initial Sequence Number (ISN): 205
- Server
  - IP: 22.33.44.1 Application port: 123 Initial Sequence Number (ISN): 456

The 1<sup>st</sup> column in the table below gives the names of selected fields in a TCP segment. The 2<sup>nd</sup> column gives the length of the field (in bits). Answer the following questions by writing the field values in the table. If the field value is not relevant, then write a cross 'X' in the table.

Consider TCP connection establishment. What are the field values for:

- a) 1<sup>st</sup> TCP segment sent in the connection establishment

Assume the connection establishment was successful. What are the field values for:

- b) 2<sup>nd</sup> TCP segment sent by client that contains data (each data segment contains 2000B)

Field	Size (bits)	(a)	(b)
Source port	16		
Dest. port	16		
Sequence number	32		
Ack. number	32		
SYN flag	1		
ACK flag	1		

