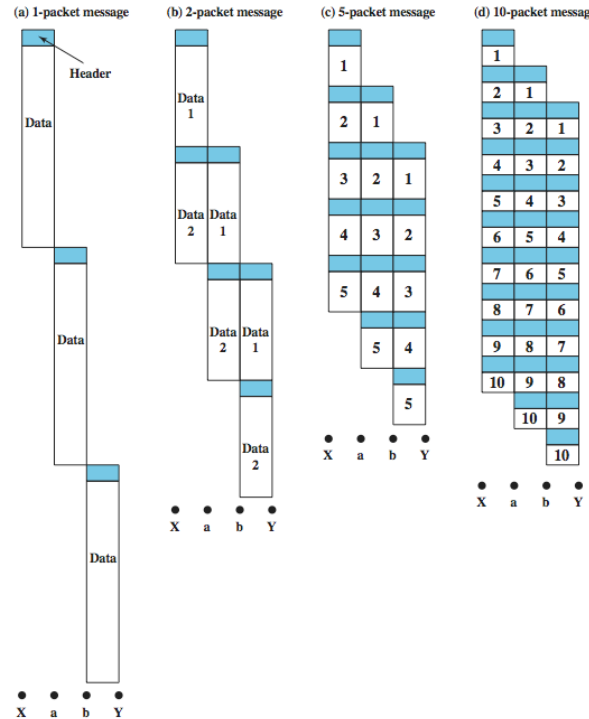


Course name: Network I
 Course Code: CNExxx
 Lecturer: Dr. Ahmed ElShafee

Exam number: Quiz – model answer
 Exam Date: 01/11/2011
 Time Allowed: 30 minutes

Name: _____
 ID: _____

	<p>The following figure describes the packet sizing effects on overall transmission speed.</p>  <p>The message consists of 40 octets; node adds 3 octets of control information at the beginning of each packet in the header, and data rate 1 octet/us, Ignoring switching time.</p>	
1	<p>In 1 packet message, total transmission time equals to</p> <p>a. 43 usec b. 129 usec c. 172 usec d. 49 usec</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> $=3 \times (40+3) = 129 \text{ usec}$ </div>	B
2	<p>In 2 packets message, total transmission time equals to</p> <p>a. 138 usec</p>	C



	<p>b. 46 usec c. 92 usec d. 43 usec</p> <p>$=4x(20+3)=92 \text{ usec}$</p>	
3	<p>In 5 packets message, total transmission time equals to</p> <p>a. 43 usec b. 165 usec c. 59 usec d. 77 usec</p> <p>$=7x(8+3)=77 \text{ usec}$</p>	d
4	<p>In 10 packets message, total transmission time equals to</p> <p>a. 84 usec b. 43 usec c. 51 usec d. 70 usec</p> <p>$=12x(4+3)=84 \text{ usec}$</p>	a
5	<p>The optimum packet size is</p> <p>a. 40 octet b. 20 octet c. 8 octet d. 4 octet</p> <p>justify?</p> <p>Smallest transmission time</p>	c