

DHARRSAN 21BCT0022

19) $x^3 + 1 = 1.x^3 + 0.x^2 + 0.x' + 1.x^6$ => generated polynomial 1001

Add n-1 = 3 zeroes at the end of message

 $= 3 x^{7} + x^{5} + x^{6} = 1 \cdot x^{7} + 0 \cdot x^{6} + 1 \cdot x^{5} + 0 \cdot x^{4} + 0 \cdot x^{3} + 0 \cdot x^{4} + 0 \cdot x^{5} + 0 \cdot x^{6} +$

1001 101000 01000

1001

01110

- 1001

Remainder = $0.x^3 + 1.x^2 + 1.x^2 + 1.x$ = $x^2 + x + 1$

Pemainder = 22 + x +1



(a	RC is almost always mounted in a trailer enabler than header in data link porotocols. What is the reason for is?
E	errors in headers and payload can be detected
	Packet size: If the CRC were placed in the header in would increase the six of the header and reduce amount of paylood that could be carried in each packet
>	Efficiently: The receiver can check the integrity of the packet before processing the payload
- 11	Security Security