**CA2 –CAP 275**

**Set A**

**Note. Attempt all questions .Each questions carry equal marks.**

**Q1.** What is Error Control? Explain the way of Error Control mechanism with suitable example.

**Q2.** What is HDLC? Explain the frame format of HDLC with neat and clean diagram.

**Q3. What is PPP? Explain the frame format of PPP.**

**Q4. What is classful addressing scheme? Find the class of followings.**

**Find the class of each address with their subnet mask.**

**a**. 00000001 00001011 00001011 11101111

**b.** 11000001 10000011 00011011 11111111

**c.** 10100111 11011011 10001011 01101111

**d**. 11110011 10011011 11111011 00001111

**Q 5.**

* An address in a block is given as 73.22.17.25. Find the number of addresses in the block, the

First address and the last address.

* An address in a block is given as 172.16.5.1. Find the number of addresses in the block, the

First address and the last address.

* An address in a block is given as 192.168.5.1. Find the number of addresses in the block, the

First address and the last address.

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**Set B**

**Note. Attempt all questions .Each questions carry equal marks.**

**Q1. What is difference between bit stuffing and byte stuffing?. Explain with suitable example.**

**Q2.** What is checksum? Explain it with suitable example.

**Q3.** What is HDLC? Explain the frame format of HDLC with neat and clean diagram.

**Q4. What is classful addressing scheme? Find the class of followings.**

**Find the class of each address with their subnet mask.**

**a**. 00000001 00001011 00001011 11101111

**b.** 11000001 10000011 00011011 11111111

**c.** 10100111 11011011 10001011 01101111

**d**. 11110011 10011011 11111011 00001111

**Q 5.**

* An address in a block is given as 73.22.17.25. Find the number of addresses in the block, the

First address and the last address.

* An address in a block is given as 172.16.5.1. Find the number of addresses in the block, the

First address and the last address.

* An address in a block is given as 192.168.5.1. Find the number of addresses in the block, the

First address and the last address.

**CA2 –CAP 275**

**Set C**

**Note. Attempt all questions .Each questions carry equal marks.**

**Q1. What is Error correction and detection mechanism? Explain it with suitable example.**

**Q2.** What is PPP? Explain with suitable example.

**Q3.** What is Go-back N ARQ mechanism? Explain it with suitable example.

**Q4. What is classful addressing scheme? Find the class of followings.**

**Find the class of each address with their subnet mask.**

**a**. 00000001 00001011 00001011 11101111

**b.** 11000001 10000011 00011011 11111111

**c.** 10100111 11011011 10001011 01101111

**d**. 11110011 10011011 11111011 00001111

**Q 5.**

* An address in a block is given as 73.22.17.25. Find the number of addresses in the block, the

First address and the last address.

* An address in a block is given as 172.16.5.1. Find the number of addresses in the block, the

First address and the last address.

* An address in a block is given as 192.168.5.1. Find the number of addresses in the block, the

First address and the last address.