



**EASTERN UNIVERSITY, SRILANKA**  
**THIRD EXAMINATION IN SCIENCE-2004/2005**  
**SECOND SEMESTER (Oct/Nov, 2006)**  
**Computer Networks - CS 302**  
**(Proper & Repeat)**

**Answer all Questions**

**Time Allowed: 2 Hours**

**Q1)**

- a) What do you mean by the “**Computer Networks**” and explain their usages? (40)
- b) Clearly describe the “**ISO – OSI**” model and its function. (60)

**Q2)**

- a) Briefly describe the “**Switching**” environment. (70)
- b) Briefly describe the technique of “**Cyclic Redundancy Check (CRC)**”. (30)

**Q3)**

- a) In the Networking environment “**ISO/OSI**” layers are very essential to transfer the data. “**Data Link Layer**” is the one of the layer in the “**ISO/OSI**” model. In this layer many protocols are used to perform their duty. Here “**Go – Back –N**” and “**Selective Repeat**” protocols are used in this layer. Discuss the mechanism involved in the above protocols. (80)
- b) What do you mean by the term “**Carrier Sense Multiple Access (CSMA)**”? (20)

**Q4)**

Briefly describe the following topics:

- a) Star – Ring Network Topology.
- b) Fiber optic cable.
- c) Bridge.
- d) Parity Check.
- e) Internet Protocol (IP).

(20 x 5 = 100)