

J 1244

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Seventh Semester

Information Technology

IF 451 — HIGH PERFORMANCE NETWORKS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Is there any time-bounded service provided by MAC layer? Explain.
2. Give the different states where a device can stay in an application of ad hoc architecture.
3. List out the versions in physical layer of IEEE 802.11 standard.
4. Highlight the features of transmitting end in fiber optic link.
5. Give the features of connection-oriented services with a neat sketch.
6. Where multiplexing is required? Explain.
7. Why ISDN comprises channels? Explain.
8. Explain error detection and error control in ATM.
9. Locate where WDM is required. What is it?
10. How wireless networks performance is evaluated?

PART B — (5 × 16 = 80 marks)

11. (i) Apply AAL subprotocols with an application and explain each. (10)
- (ii) Design a simple ATM network with ten entities and highlight their IP address allocations and other required parameters. (6)