

ATM NETWORKS (Elective-III)

Time : Three Hours Maximum Marks : 100 Minimum Pass Marks : 35

Note : Attempt any five questions. All questions carry equal marks.

- 1 (a) Give the layered structure of ATM and compare with ISO-OSI model. 10
- (b) What is the methodology of controlling congestion in ATM networks ? Explain clearly. 10
2. (a) Distinguish between physical layer transport functions and ATM layer transport functions. 7
- (b) Using diagram explain about ATM layer and ATM adaptation layer. 7
- (c) What is cell terminology and function of each layer of ATM ? 6
3. (a) List and explain different traffic control parameters in ATM. 8
- (b) What should be the main considerations for payload size ? 8
- (c) What do you mean by cell loss ratio ? 4
4. (a) List the different functions of AAL layer of ATM. 4
- (b) List different switch models. 4
- (c) What is the use of header of a cell ? . 4
- (d) What is ATM data exchange interface ? 4
- (e) What are idle cells ? 4
5. (a) What does asynchronous mean in the term of ATM A
- (b) What are the ATM performance parameters ? 4
- (c) Which ATM transfer capabilities make use of RM cells ? 4
- (el) Explain physical medium characteristics of ATM. 4
- (e) How does the next hop resolution protocol works ? 4
6. Explain the following in brief : 5 each
- (a) Meta signaling
- (b) ATM address migration
- (c) Optical switching
- (d) B-ISDN network topology
7. What do you understand by ISDN ? Explain in detail ISDN system, its different data rate, architecture, uses and advantages. 20
8. Write short notes on the following : 5 each
- (a) Virtual path connection
- (b) ATM standards
- (c) ATM cell transfer function
- (d) Virtual channel and virtual path