

**Asynchronous Transfer Mode  
(CSE-6, Dec 2005)**

**Note:** Section A is compulsory. Attempt any four questions from Section B and any two questions from Section-C.

**Section-A**

1. a) Distinguish between STM & ATM.  
b) What is broadband transmission?  
c) Why is ATM a core edge network concept?  
d) How can virtual channels be identified?  
e) What is meant by QOS?  
f) What is B-ISDN?  
g) What is an idle cell?  
h) How does ATM cell header structure look like?  
i) What is meant by traffic shaping?  
j) What is API?

**Section-B**

2. What are the main network performances parameters defined from ATM networks?
3. How are ATM cells mapped into SDH frames?
4. Describe the main tasks for traffic management ATM based networks?
5. Compare the ATM switch models.
6. Discuss the ATM card system design considerations.

**Section-C**

7. Describe with an example the ATM based protocol interworking.
8. Discuss the technological comparison of ATM with other structures.
9. Write notes on:-
  - a) ATM cable & transmission
  - b) User control & management planes.