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Total No. of Questions : 09]

may-08

[Total No. of Pages :02

## Paper ID [CS306]

(Please fill this Paper ID in OMR Sheet)

**B.Tech. (Sem. - 6<sup>th</sup>/7<sup>th</sup>)**

**ASYNCHRONOUS TRANSFER MODE (CS - 306)**

**Time : 03 Hours**

**Maximum Marks : 60**

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

### Section - A

**Q1)** (10 × 2 = 20)

- a) List different functions of AAL layer of ATM?
- b) What is cell padding?
- c) What is Virtual channel identifier?
- d) List different switch models?
- e) What is peak cell rate?
- f) What is ATM Data exchange interface?
- g) What do you mean by cell loss ratio?
- h) List different QoS parameters?
- i) What is the use of header of a cell.
- j) What are idle cells.

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### Section - B

(4 × 5 = 20)

**Q2)** List different constraints in designing of ATM switch? How they are handled?

**Q3)** List and explain different traffic control parameters in ATM.

**Q4)** What are the features of AAL Type 1 and AAL Type 5 layers?

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**Q5)** Explain in detail different user control and management plans?

**Q6)** What should be the main considerations for payload size?

### **Section - C**

*(2 × 10 = 20)*

**Q7)** Give the layered structure of ATM and compare with it ISO-OSI model?  
What are the features of AAL.

**Q8)** What is the methodology of controlling congestion in ATM networks? Explain clearly.

**Q9)** Write short notes on the following:

(a) ATM interface.

(b) Protocol Service Unit.

