

Roll No:

Total No. of Questions : 09]

[Total No. of Pages :02

Paper ID [CS306]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 6th/7th)

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.

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.

