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BT–7/D05   **9317**

Broadband Communication (2004-05)

Paper : IT–453

Time : Three Hours]   [Maximum Marks : 100

Note :– Attempt any **FIVE** questions.

1. (a) What do you mean by optical fibres ? Explain types of optical fibres.   8

   (b) Explain dispersion and its types.   7

   (c) Explain Numerical Aperture.   5

2. (a) Explain LED and its characteristics.   8

   (b) What do you mean by LAPD ? Explain in detail.   12

3. (a) What do you mean by ISDN reference points and functional groupings ? Explain with the help of diagram.   8

   (b) Explain in detail ISDN protocol architecture.   7

   (c) Explain U-Interface with the help of frame format.   5

4. (a) Explain ISDN Services in detail.   10

   (b) What do you mean by SS7 ? Explain signalling connection control in it.   10

5. (a) What are different types of switches used in ATM Networks ? Differentiate between them.   10

   (b) Explain ATM cell structure.   5

   (c) Justify the statement : "ATM as an Asynchronous Technology".   5

6. (a) Explain ATM switching principle.   8

   (b) What are ATM performance parameters ? Explain.   7

   (c) What are advantages of Fiber Based Networks ?   5

7. (a) What are various ATM Services ?   10

   (b) Explain DWDM in detail.   5

   (c) What do you mean by Contention Resolution ?   5

8. Write short notes on the following :—

   (a) NRZI

   (b) OAMM

   (c) In-Channel Signalling.   20

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