

**Babasaheb Bhimrao Ambedkar Bihar University, Muzaffarpur**  
**Directorate of Distance Education**  
**Professional / Technical 2<sup>nd</sup> Semester (Session 2014-16)**  
**Subject:- M.Sc.IT**  
**Paper – VI**  
**Assignment Paper (Full Marks – 30)**  
**Switching & Transmission Fundamentals**

1. Define the term telecommunication. Why is the switching system needed in a telecommunication network?
2. What is simplex, half duplex and full duplex communication?

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**Paper – VII**  
**Assignment Paper (Full Marks – 30)**  
**Broadband Communication**

1. Discuss and explain LOS propagation on Flat Earth.
2. What do you mean by effect of the nature of the Earth's Surface?

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**Paper – VIII**  
**Assignment Paper (Full Marks – 30)**  
**Wireless Mobile Communication**

1. Discuss and explain concept of Cellular Communication.
2. What do you mean by Global System for Mobile (GSM).

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**Paper – IX**  
**Assignment Paper (Full Marks – 30)**  
**Artificial Intelligence & Remote Communication**

1. What is AI (Artificial Intelligence)? Also explain the history of AI.
2. What is multiplexing? Why is multiplexing so cost effective?

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**Paper – X**  
**Assignment Paper (Full Marks – 30)**  
**Visual basic with .NET Technology**

1. Why .NET? Briefly discuss about .Net class library.
2. Describe in brief with examples about functions and procedures in VB.Net.

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**Paper – XI**  
**Assignment Paper (Full Marks – 30)**  
**Computer Architecture**

1. Define Bus architecture. Also explain single Bus and two Bus organizations.
2. Discuss and explain addressing modes for implementing indirection and pointers.

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