Seat No.:	
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[Max. Marks: 100

## **AK-124**

## April-2016

## M.Sc., Sem.-VI (CA & IT)

## **Data Communication & Networking**

Time: 3 Hours]

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	[B]	Exp	lain Repeater.	2
		4.	Discuss Fiber Optics cable in detail.	
		3.	What is Spread Spectrum? Explain Frequency Hopping Spread Spectrum.	
		2.	What is Multiplexing? Explain Frequency Division Multiplexing (FDM).	
		1.	What is Transmission Impairment ? Discuss in detail.	
2.	[A]	Ans	wer the following questions (Any <b>Three</b> ):	18
		6.	SOCKET	
		5.	Piggybacking	
		4.	Parity Bit	
		3.	Coaxial Cable	
		2.	Bandwidth	
		1.	Topology	
	[B]	Exp	lain following term (Any <b>Five</b> ):	1(
		6.	Explain bandwidth-delay product.	
		5.	What is Composite Signal?	
		4.	What is Automatic Repeat Request (ARQ) ?	
		3.	What is Persist method?	
		2.	What is Dataflow Mode?	
		1.	What is Communication System ?	
1.	[A]	Ans	wer the following questions (Any <b>Five</b> ):	10

3.	[A]	1. What is Switching Network? Explain Circuit Switching Network.	10
		2. What is Error Detection? Calculate the codeword for dataword 1110 using Cyclic Redundancy Check (CRC). Divisor is 1011.	
		3. What is Sliding Window Protocol? Explain Go-Back N protocol.	
		4. What is CSMA? Explain CSMA/CD Protocol.	
	[B]	Explain Block Coding.	2
4.	[A]	Answer the following questions:	18
		1. Explain CDMA in detail.	
		2. What is Dynamic Routing Table ? Explain Distance Vector Routing Algorithm	
		3. What is Classful IP address? Explain in detail.	
	[B]	Explain Port Address.	2
5.	Explain following in detail (Any <b>Four</b> )		
	1.	TDM	
	2.	Checksum	
	3.	Polling	
	4.	User Datagram	
	5.	CSMA/CA	

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