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Session	:Zai0-11	Subject Code		IV
	: 3 Hours	Paper		/ IV / 11
	Stage Company Company	Full Marks	•	80
Car	ndidates are required to give their answe	ers in their own wo	rds as far a	s practicable
	The figure in the marg	in indicates full ma	rks.	
· ·	Answer from both th	ne groups as directe	d.	
	GRO	UP - A		
	(Objective Type Que	stions - Compuls	ory)	
Q.No. 1	. Choose the correct answer of the followi	ng:		2 x 10 = 20
e t	Which mode of transmission requires a clo Serial Parallel Scrial-parallel None of the above			
14 E	Which is the process in which two or more  a) Multiplexing b) De-multiplexing c) Both a) and b) d) None of the above	signals are combine	ed?	
/ l	The throughput of pure ALOHA.  a) 18.1% b) 18.2% c) 18.4% d) 18.9%			greies.
1	UDP runs over  a) IPv6  b) TCP  c) IPv4  d) None of the above			

/	a)	Reflection			
	b)	Refraction			
	c)	Total internal reflection			
	,	None of the above			
).	A nois	A noiseless 3-khz channel transmits binary signals at the rate of			
		6kbpa			
	b)	5kbps mender of the second sec			
	c)	4kbps			
	d)	2kbps			
7.	25) Th	e address reserved for private networks is			
	a)	a) 172.16.255.0			
	b)	b) 173.15.256.1			
	c)	c) 173.15.258.2			
	d)	None of the above			
8.	ARP is defined in				
	a)	RFC 826			
	b)	RFC 827			
	c)	RFC 829			
	d)	RFC 286			
9.	Inter N	NIC is known as			
	a)	International Net Information Communication			
	b)	Inter Network Information Command			
	c)	International Network Institute Center			
	d)	International Network Information Center			
10.	The n	umber of the levels in digital signal is			
	a)	One			
	b)	Two			
	c)	Four			
	d)	Ten ·			

Optical fiber is base on the principle or ...

## GROUP - B

(Long Answer Type Questions)
Answer any four questions. Each question carries 15 marks.

- Q.No. 2. What are the five service primitives for implementing a simple connection oriente service? Explain them. Also explain the two types of transmission technology.
- Q.No. 3. Explain about store-and-forward packet switching. Also write short notes on routing f mobile hosts.

- Ao. 4. Explain with examples, error detecting and correcting codes. Also explain in detail on pure ALOHA system.
- Q.No. 5. Explain ARQ protocol with its various functions. Also write difference between TDM and FDM.
- Q.No. 6. What is modulation? Explain AM, FM and PM with waveforms. Also explain physical topologies with diagram.
- Q.No. 7. Explain PCM with block diagram. Also discuss Data link. Network and Transport layer in detail.
- Q.No. 8. Write short notes on the following:
  - (i) MPLS

- (ii) RSVP
- Q.No. 9. Write and explain frame format of IPV6.

