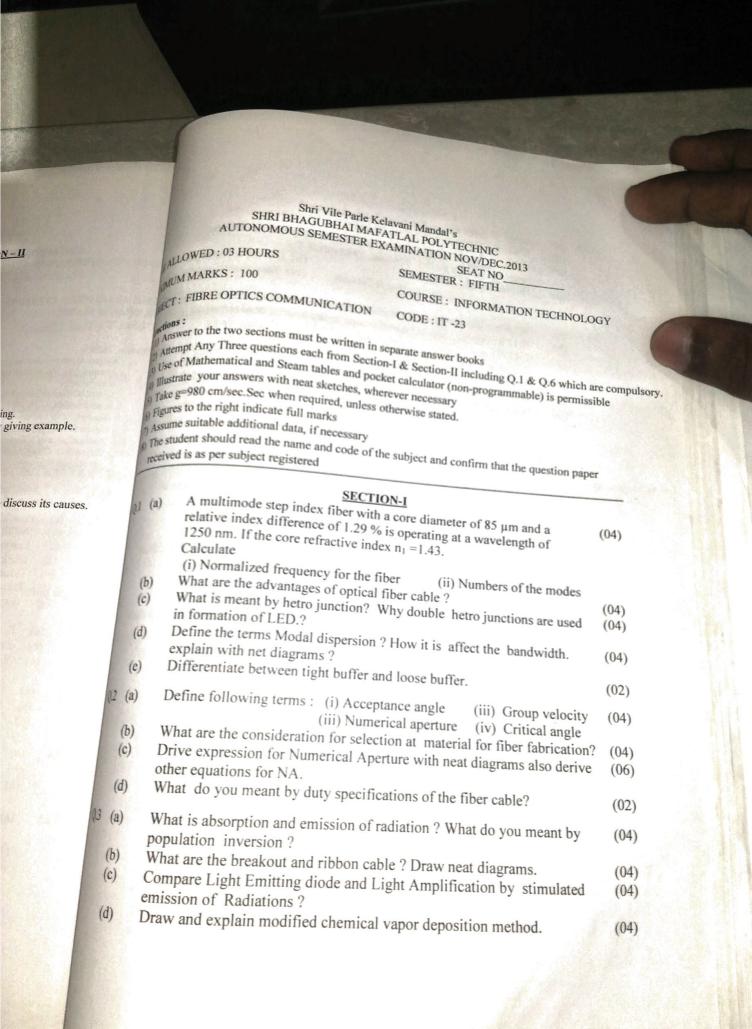
SHRI BHA CV

		SHRI BHAGUBHALLA Kelavani N	1		
		SHRI BHAGUBHAI MAFATLAL AUTONOMOUS SEMESTER EXAMINA AULOWED: 03 HOURS	POLYTECHNIC		
	(04)	ALLOWED: 03 HOURS SEA	ATION NOVIDE		
ci series.	(04)	MARKS: 100	TESTER: FIFTH		
d queues		NETWORK & SECURITY	URSE: COMPLITED TO		
- quedes		CO	DE : CSE-25		
	(06) (06) (06) (06) (08) (08)	Answer to the two sections must be written in separate Answer to the two sections each from Section-I & some statement of Mathematical and Steam tables and pocket calculate your answers with neat sketches, wherever take g=980 cm/sec. Sec when required, unless otherways to the right indicate full marks sume suitable additional data, if necessary e student should read the name and code of the subjected is as per subject registered	e answer books Section-II including Q.1 & Q.6 which are coculator (non-programmable) is permissible necessary ise stated.	Ompulsory.	
		erved to the provided registered	that the question paper		
re to (0	08)	SECTION			
(0)	2)	SECTION-I			
	0.1	Attempt Any Six			
(06 (04			aver? (18)	
(04) (06)	(c) (d) (e) (f) (g)	Define 'channel' and describe any one How are directory services useful in co What is the purpose of sequence number What is the role of Data link layer in C Give the importance of session layer of	transmission media. mputer network? er in TCP packet?		
(06)	Q.2 (a)	Describe the various types of HDLC fratransmission modes in HDLC.	ames and the different	(80)	
	(b)	What are the three major multiplexing to neat diagram.	echniques? Explain TDM with	(06)	
	(c)	What is the purpose of guard band in m	ultiplexing?	(02)	
10.	3 (a)	What is local loop? Explain WLL		(80)	
	(b)	State the importance of directory service	e in networks. Explain NDS.	(80)	
Q.4	(a)	List the different types of switches used	l in switching. Explain batcher	(80)	
		banyan switch.	SSMA/CA	(04)	
	(b)	Differentiate between CSMA/CD and C	SIVIA/CA	(04)	To the second
	(c)	What are the features of NDS?		(0.)	1
Barrier Co.					

Q.5	(a) (b)		(08)	LOV UM I
		SECTION-II	WE AN	UM'
Q.6	(a) (b)	What is the purpose of using firewall? Explain the architecture of firewall with the help of a neat diagram. Differentiate between front door and back door threats. Illustrate with examples.	(1)8)	(01) (02)
Q.7	(a)	What is a proxy server? Write down the steps to install a proxy server in a Novell based operating systems.	(80)	(04
	(b)	What is meant by disaster recovery? What are management of a network disaster?		(0)
Q.8	(a)	How can internal security to a network or a computer be ensured? Write down the syntax (i) To create a user "ABC"	(08)	(
	(b)	(ii) To give the read, write and modify rights of a document to user ABC Write down the steps to install a printer across the network.	(08)	Q.
-	(a) (b)	Explain the steps taken to maintain the account security in a network. Explain the need and architecture of VPN technology.	(08)	
Q.10 ((a)	Write down the steps to upgrade an existing network? What additional hardware and software requirements may be required for the help upgradation.	al (08)	
((b)	Define following terms: (i) Hackers (ii) Crackers (iii) DMZ (iv) VPN client	(80)	



				AU	JTON
	(a) What is direct and indirect band gap energies? (b) Draw the Edge emitter LED structure. (c) Compare storter, langer, larger wavelength ranges depending on attenuation, dispersion, distance, Data rates. (d) Define: (i) Modes (ii) Cut off wavelength (iii) Total internal reflection (iv) Lasering efficiency	(04)	ME ALLOW	/ED: 0)3 HO S: 10 TAL I
	with standard diamentions. Also write their equations?	(04) (04) (04) (04)	(01) Answ (02) Atte (03) Use (04) Illu (05) Tal (06) Fig	of Mastrate ce g=95 gures to	ny The them a your a so the so
	SECTION-II		(07) As	- etud	ent sh
Q.6 (a) (b) (c) Q.7 (a) (b) Q.8 (a) (b) Q.9 (a) (b)	What are the uses of repeaters and regenerators in fibre optic communication? With the neat diagram, explain the working principle and function of receiver in optical communication. Differentiate between attenuation and dispersion. What are the various types of connectors used in optical communication. What are the various types of Light sources in optical fibre. Describe bit error rate. How is it useful in optical measurement? What is a splicing? What are the various types of splicing? Explain ea one in brief? Discuss optical multiplexing by using WDM. Explain the working of OTDR meter with suitable diagram.	(80)	Q.1	(a) (b) (c) (d)	Solv Dra Dra Pro De
Q.10 (a) (b)	Write short note on the following (i) Optical amplifier (ii) Photo detectors Give the importance of optical fiber analysis and its parameters.	(0)	8)		(a)
	******	(°	,	Q.4	(c) (a)

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(c)