uptuonline.co	om		Roll No.	ptuonline.com				
	No.	of Pri	nted Pages—2	IC-602				
			в. тесн.					
SIXTH SEMESTER EXAMINATION, 2003-2004								
'z		DATA ACQUISITION & TELEMETRY						
	Time: 2 Hours Total Ma							
Note : Attempt ALL questions. From each question attempt two parts only.								
156	1.	(a)	Discuss and describe the functioni ANTI-ALIASING filters by g appropriate schematic diagrams and rec justifications.	giving				
		<i>(b)</i>	What are the "Error Detection and Correction" codes? Explain and justi utility of such codes (at least one exam each) for correct and secure data transm	fy the ple of				
		(c)	Explain frequency shift keying. How used to transmit binary data?	v is it (7)				
	2.	(a)	Discuss the advantages of Data log Where and how are they used?	ggers. (6)				
		(b)	Describe, in brief, the various major me of signal conditioning.	ethods (6)				
		(c)	Elaborate at least one PC-based acquisition system. How is a good acquisition system identified? Enum various parameters for the above.	data				
	3.	(a)	What are Bit-interleaved multiple Justify the bit stuffing process M12 fragiving one example.					

uptuonline.com			uptuon	line.com
		(b)	How does a Data Modem function? Describe its functioning in brief.	(6)
		(c)	Discuss and describe the international standards, set for Interfacing and Bus standard. What are its advantages?	(6)
	4.	(a)	Describe the Tone Digital command system along with its complete schematic.	(6)
		(b)	Enlist and introduce various system components for operational security arrangements.	(6)
		(c)	What are pipelines? How are the pipelines controlled? Justify the same by discussing algorithm for the same.	(6)
			•	