Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER III (NEW) – EXAMINATION – WINTER-2016

t Code: 2730305 t Name: Virtual Instrumentation 2:30 pm to 05:00 pm Total Marks: 7 ons: Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Give detail Comparison of Virtual Instrumentation with hard wired instruments. Explain detail architecture of Virtual Instrumentation. Enlist the silent features of VI and its applications area in various engineering field. Explain below given programming concepts with example	
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field.	07
Explain below given programming concepts with example	
VIs and SUBVIs	07
	07
Explain technical aspects for USB interface with VI system.	07 07
Draw the physical bus structure of GPIB with description of each pin function.	07 07
	07 07
OR	
Input.	07
Enlist and explain various features of PCI.	07
What is the limitation of RS-232 communication? Explain features of RS-485. Explain concepts of Sampling theorem and antialiasing filters implementation.	
Explain the various functions available for time domain and frequency domain	
•	07
	field. Explain below given programming concepts with example VIs and SUBVIS Clusters OR Explain concepts of Global and local variable with any example. Write a short note on PC Hardware structure for VI systems. Explain technical aspects for USB interface with VI system. OR Draw the physical bus structure of GPIB with description of each pin function. Discuss the role of software in Virtual Instrumentation. Discuss various Data communication functions available in LABVIEW. Explain use of Virtual instrumentation for process control designing application with any one Example. OR Explain technical aspects of data acquisition systems for Analog and Digital Input. Enlist and explain various features of PCI. What is the limitation of RS-232 communication? Explain features of RS-485. Explain concepts of Sampling theorem and antialiasing filters implementation. OR Explain the various functions available for time domain and frequency domain analysis. Explain use of Virtual instrumentation for Digital signal processing application
