

B.E., DEGREE EXAMINATIONS: MAY/ JUNE 2013

Sixth Semester

MECHATRONICS ENGINEERING

MCT117: Virtual Instrumentation

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. LabView stands for _____
 - a) Laboratory Vital Instrument Engineering Workbench
 - b) Laboratory Virtual Instrument Engineering Workbench
 - c) Laboratory Virtual Industry Engineering Work
 - d) Laboratory Virtual Instrument Engine Workbench
2. An "Object" in Conventional language is equivalent to _____ in LabView.
 - a) Front panel
 - b) Block diagram
 - c) subVI
 - d) Function
3. _____ show the output values produced by the program
 - a) controls
 - b) While loop
 - c) For loop
 - d) Indicators
4. _____, _____, and _____ are the various components of a block diagram
 - a) DMA, PCI, ISA
 - b) DAQ, A/D, D/A
 - c) Terminals, nodes, wires
 - d) RS232, SERIAL PORT, VISA
5. _____ Functions creates an n-dimensional array with elements with values specified at the input.
 - a) Build array
 - b) Initialize array
 - c) Array size
 - d) Array subset
6. _____ Functions assembles individual components into a single new cluster.
 - a) Unbundle
 - b) Bundle by name function
 - c) Bundle
 - d) Unbundle by name function
7. MAX stands for _____
 - a) Measurement and Auditing Explorer
 - b) Magnetic and Automation Explorer
 - c) Measurement and Automation Experiment
 - d) Measurement and Automation Explorer

(ii) Write a brief note on cluster functions in detail

(7)

24. a) Explain the VISA and PXI in detail with an example

(OR)

b) Explain real time DAQ with an example

25. a) Write a brief note on process control in detail.

(OR)

b) Explain about Image acquisition with an example.
