

Code :R7411004

R7

IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011

PC BASED INSTRUMENTATION

(Electronics & Instrumentation Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Discuss about Basic components of a personal computer with neat block diagram.
(b) Elaborate on PCI bus
2. (a) Give an account of plug-in data acquisition cards.
(b) Describe VXI bus with neat diagram.
3. Write short notes on the following
 - (a) Advantages of C++ programming with example.
 - (b) Linearization using programming.
4. (a) Discuss about various parts of PLC with a neat block diagram.
(b) Elaborate on input/output modules of a PLC.
5. (a) Discuss about various PLC input instructions.
(b) Describe Timer function with examples of industrial applications.
6. (a) List various arithmetic functions in PLC and Elaborate on any two of them.
(b) List various comparison functions in PLC and Elaborate on any two of them.
7. (a) Discuss about PID function in PLC.
(b) Explain about various types of PLC analog modules and systems.
8. (a) What is architecture of field bus explain.
(b) Give an account of smart Transmitters.
