

R07**Code: R7411004**

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

P C BASED INSTRUMENTATION
(Electronics & Instrumentation Engineering)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Explain about the computer interfacing for data acquisition and control.
(b) Discuss about the input/output port configuration of a computer system.
2. Explain in detail the data acquisition and control using standard cards.
3. (a) Explain the concepts of scaling and linearization.
(b) What are cross-assemblers and discuss its functions in a programming environment?
4. (a) Draw and explain the input/output modules of a PLC.
(b) What are the applications of PLC?
5. (a) Explain basic PLC functions.
(b) Explain briefly the programming of ON-OFF outputs of a PLC.
6. (a) Discuss SKIP and MCR functions of PLC.
(b) Explain briefly about matrix functions.
7. (a) Explain in detail the analog PLC operation.
(b) Discuss the PLC-PID functions briefly.
8. (a) What is a field bus?
(b) Explain the operation of field bus with a neat diagram.
