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EE-8302**B.E. VIII Semester****Examination, June 2017****Process Control****(Elective - III)****Time : Three Hours****Maximum Marks : 70****Note:** i) Total No. of questions are eight.

ii) Answer any five questions.

iii) All questions carry equal marks.

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1. a) What is process control? Explain it with an typical example. 7
 - b) Explain the effects of multistaging in process system. Discuss pure lag also. 7
 2. a) Compare electronic and pneumatic controllers. 7
 - b) Classify and explain the different types of control valves. 7
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3. a) Explain a process control system having safety valves, valve positioners and relays. 7
 - b) Explain the concept of tuning of controllers. Explain any one technique for it. 7

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4. a) What is a ratio control system? Describe it with a specific process. 7
- b) Explain cascade control system in process control with a specific application. 7
5. a) Discuss feed forward control schemes used in process control. Mention its utility. 7
- b) Describe batch and continuous process control with its significance. 7

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6. Explain the process schemes with block diagram for mineral processing industries. 14
7. a) Explain the application of PLC and its uses in process control. 7
- b) What is supervisory control? Explain its features in process control. 7
8. Write short notes on: (any three) 14
- a) Volume boosters
- b) Data loggers www.rgpvonline.com
- c) Process system dynamics
- d) Advantages of electronic controllers
- e) Use of DDC
