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V. P. & R. P. T. P. Science College

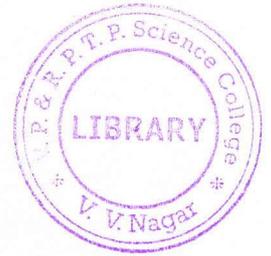
Vallabh Vidyanagar - 388120

Internal Test - October 2019

B. Sc. 5th Semester - US05CINV02 (Control technique-1)

Day and Date: Thursday, 03/10/2019

Time: 11:00 am to 12:15 pm



Maximum Marks: 25

Que 1 Objective Type Questions.

[05]

- 1 ____: time within which no control action takes place.
 - a) Control lag
 - b) Process lag
 - c) Dead time
 - d) Self-regulation
- 2 ____: usually not used alone.
 - a) Proportional control mode
 - b) Integral control mode
 - c) Derivative control mode
 - d) On-off control mode
- 3 Instrument air system is used with ____ type control system.
 - a) Optical
 - b) Mechanical
 - c) Hydraulic
 - d) Pneumatic
- 4 ____ Gas has highest susceptibility to magnetic field.
 - a) Nitrogen
 - b) Oxygen
 - c) Carbon dioxide
 - d) Carbon monoxide
- 5 Variable under control is known as ____.
 - a) Set point
 - b) Controlled variable
 - c) Controlling variable
 - d) Zero

Que 2 Write a detailed note on ON-OFF control system. Explain what neutral zone is. [05]

OR

Explain floating control mode in detail.

Que 3 Discuss proportional control mode. What is offset? [05]

OR

Give an account of integral control mode. What is integral time?

Que 4 With necessary diagram, write on instrument air system distribution. [05]

OR

Explain compressor cooling in detail.

Que 5 Write a note on paramagnetic oxygen analyzer. [05]

OR

Give an account of magnetic wind instruments.

Best Wishes