

Extra

VITHALBHAI PATEL & RAJRATNA P. T. PATEL SCIENCE COLLEGE

Vallabh Vidyanagar

B.Sc. (6TH Sem) Internal Test Theory - March 2017

07th March, 2017, Time: 11:00 am to 12:30 pm

US06CINV02 (Instrumentation - Vocational)

Control Technique - II

Maximum Marks: 25

Que 1 Each question below gives a multiple choice of answers. Choose the most appropriate one. [03]

- 1 _____: Brain of Control System.
 - i. Controller
 - ii. Sensor and Transmitter
 - iii. Final Control Element
 - iv. None of these
- 2 Programmable Logic Controller (PLC) Consists of _____.
 - i. Input and Output Module
 - ii. Programming Device
 - iii. Both i) and ii)
 - iv. None of these
- 3 _____: The High - Level Operator's Interface, Work Station for the Operators.
 - i. Operator's Console
 - ii. Video Display
 - iii. Keyboard
 - iv. None of these



Que 2 Short Questions (Attempt any Two) [04]

- 1 Draw the Block Diagram of Feedback Control System.
- 2 Draw the Architecture of Programmable Logic Controller (PLC).
- 3 What do you mean by Trend Display?

Que 3 [A] Write a detailed note on Feedforward Control System. State its Advantages and Disadvantages. [06]

OR

[B] Discuss Cascade Control System. Enlist its Features. [06]

Que 4 [A] Give an account of PLC Communications and Networking. [06]

OR

[B] Explain Selection of PLC in Detail. [06]

Que 5 [A] Write a Detailed Note on DCS Software Configuration. [06]

OR

[B] Explain DCS Communication in Detail. [06]