GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII • EXAMINATION – SUMMER 2013

Subject Code: 181702 Subject Name: Motion Control Time: 10:30 am TO 01:00 pm Instructions:

1. Attempt all questions.

e(t)

2. Make suitable assumptions wherever necessary.

MOTOR

- 3. Figures to the right indicate full marks.
- Q.1 (a) Derive the displacement and velocity response of the mechanical system 07 shown in figure (1), Assuming spring constant $K=\hat{O}$.

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Total Marks: 70

Date: 13/05/2013

Enrolment No.____

Q.5 (a) Explain the effect of speed up capacitors on 1- active suppression driver. 07
(b) Explain the closed loop control of step motors with help of block diagram. 07
And also explain how performance can be improved by introducing feedback.



Figure (2).
