**Sessional Examination2019**

**Class: 6th Semester (M)**

**Paper: ECM 601**

**Time: 45 Minutes Full marks:15**

1. Answer the following: 1×3=3

(i) Define settling time.

(ii) What do you mean by an error signal?

(iii) if G(s)=$ \frac{5}{s}$ and H(s)= $1/s$ , then identify the type of the system.

2. Answer the following: 2×3=6

(i) Write down the expression for a second order closed loop control system.

(ii) What is electronics controller?

(iii) Give the expression of a proportional controller.

3. Explain briefly the PD controller and derive expression for output response. 3

 4. Derive an output expression of a 1st order closed loop system. 3

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