



PART - B

(5×13=65 Marks)

11. a) i) Explain open loop and closed loop systems with suitable examples. (6)
 ii) Derive the transfer function for an armature controlled DC motor. (7)

(OR)

- b) Obtain the transfer function of the mechanical systems shown in the following Figure 11 (b). (13)

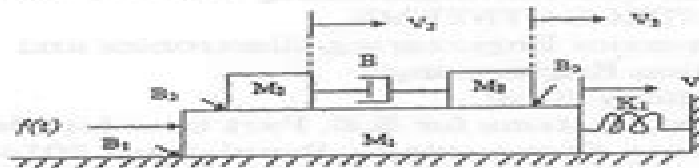


Figure 11 (b)

12. a) Derive the time domain specifications of a second order system.

(OR)

- b) i) For a Unity feedback control system, the open loop transfer function is given by $G(S) = \frac{10(S+2)}{S^2(S+1)}$

1) Find the position, velocity and acceleration error co-efficients.

2) Also find the steady state error when the input is

$$R(S) = \frac{3}{S} - \frac{2}{s^2} + \frac{1}{3s^3} \quad (8)$$

- ii) With a neat diagram explain the effect of PD controller in detail. (5)

13. a) Sketch the Bode plot and hence find Gain cross over frequency. Phase cross over frequency, gain margin and phase margin for the function

$$G(s) = \frac{10(s+3)}{s(s+2)(s^2+4s+100)}$$

(OR)

- b) Sketch the polar plot for the following transfer function and find Gain cross over frequency, phase cross over frequency, gain margin and phase margin for $G(s) = 400/s(s+2)(s+10)$.

14. a) i) Use the routh stability criterion, determine the range of K for stability of unity feedback system whose open loop transfer function is

$$G(s) = \frac{K}{s(s+1)(s+2)} \quad (10)$$

- ii) State Routh stability criterion. (3)

(OR)

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