ECS-503: Control Systems

Sessional Test-1

M. Marks: 16

Attempt all questions

Time: 1Hr

Questions	Marks	
Q1(a). Determine the overall transfer function for the system shown in Figure 1 by using BDR.	4	co
Q1(b). Using force-current analogy, determine the transfer function	4	COI
for the mechanical system shown in Figure 2.	-	
Figure 2		
(2(a).Determine the overall system transfer function for the system shown in Figure 1, using SFG.	4	CO2
(2(b).Comment on the closed loop stability of a unity feedback system characterized by .	4	CO2

5 5(54+53+28+29+3)+528

6. (424)+ ay)

P