Indian Institute of Information Technology, Sri City, Chittoor

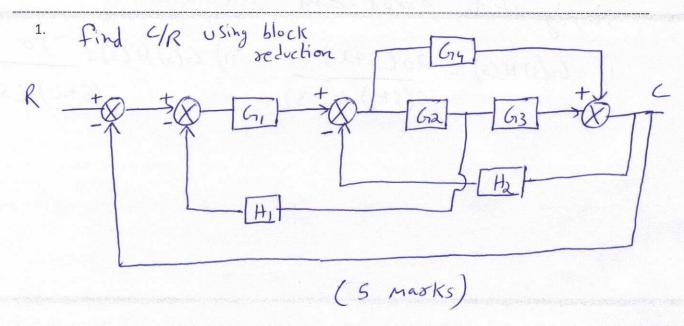
Set:1

Name of the Exam: Control systems

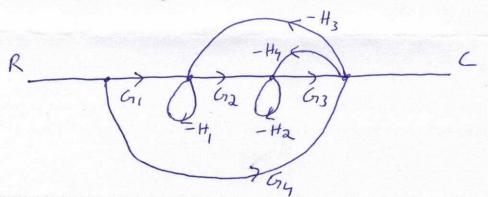
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Max. Marks:

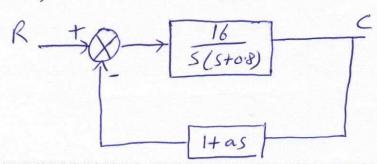




2. find Up Using Mason's gain formula (4 Marks)



3. for the given second order system the damping factor &=4. Find i) a ii) Rise time iii) Peak time iv) settling time



4) For the given loop transfer functions, what type of input will give constant steady state error and calculate its value.

i) $G(s) + (s) = \frac{20(s+2)}{5(s+1)(s+3)}$ ii) $G(s) + (s) = \frac{10}{(s+2)(s+3)}$

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