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A1. A digital control system has P controller with gain  $k$  and analogue plant,  $G_p(s) = (5+5)$  with a sampling period  $T$  sec as shown in Figure 1 below. 20 a. 4 marks 3



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marks Determine the system's open loop transfer function b. Determine the system's characteristic equation c. Assume  $k=1$ , determine the range of sampling period  $T$ , that will make this system stable.

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Solved: A1. A Digital Control System Has P Controller With ...

In a certain digital control system, a 0 is represented by a negative 1 volt level, and a 1 is represented by a positive 1 volt level. The voltage level is modeled by a discrete random variable  $K$  with

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PMF  $2p$ ,  $k = +1$   $P_k(k) = \{1 - 2p, k = -1, 0, \text{otherwise}\}$  (a) Sketch the PMF.

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The correct answer is

$C(s) = 80 \cdot (s+1) / (s+20)$ , as this is the only controller that is realizable and stabilizes the plant.

Corrected Question 2 Description:

The suspended pendulum depicted below, consist of a weightless,

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rigid rod of length  $l$  connected to a mass  $m$  placed at its end. The rod is anchored in its pivot.

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19.19 Digital Implementation 19.20

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## SECTION 19

Rule 1 – Check for the blocks connected in series and simplify.

Rule 2 – Check for the blocks connected in parallel and simplify.

Rule 3 – Check for the blocks connected in feedback loop and simplify. Rule 4 – If there is

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difficulty with take-off point while simplifying, shift it towards right.

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