

PART - B

(5×16=80 Marks)

11. a) i) List and explain the static characteristics of transducers. (8)
 ii) Discuss about push-pull sensor and capacitive proximity sensor. (8)
 (OR)
- b) i) Draw and explain the closed loop control system with example and the applications. (8)
 ii) Explain any three sensors which are used for degree of hotness measurement. (8)
12. a) i) Explain the four types of cams with its special features. (8)
 ii) Describe the working of a compound belt drive with a neat sketch. (8)
 (OR)
- b) i) Determine the input pulse rate, if the stepper motor has 10° per step and rotating at 400 rpm. (6)
 ii) With a suitable graph, discuss the specifications and characteristics of a stepper motor and its characteristics. (10)
13. a) i) Derive a mathematical model for a spring mass-damper system. (8)
 ii) Explain the working of a PID controller with an aid of a neat circuit. (8)
 (OR)
- b) i) With the help of a block diagram, explain digital logic control. (6)
 ii) Draw the equivalent free body diagram for the system shown in Fig. 1 and derive the differential equation. (10)

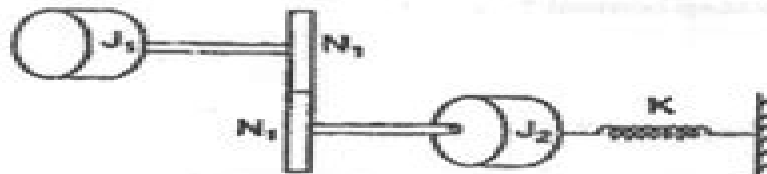


Fig. 1

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Rachel S Tattersall



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