

9. Explain briefly about Potentiometer. (5)

10. Develop the architecture of 8051 microcontroller using a block diagram. (5)

11. Write some of the challenges faced in implementing a Mechatronics system in a manufacturing setting and how can they be addressed. (5)

12. Explain the role of mechatronics in advance manufacturing. (5)

OR

Explain how microsensors are integrated into mechatronic systems for feedback control and condition monitoring. (5)
