



| OR         |    |   |    |    |     |
|------------|----|---|----|----|-----|
| Q.8        | a. | List the difference between soldering, Brazing and welding (at least 5).                    | 10 | L1 | CO4 |
|            | b. | Describe the construction and working of Arc welding Process with neat sketch.              | 10 | L2 | CO4 |
| Module – 5 |    |   |    |    |     |
| Q.9        | a. | Define Mechatronics. List the differences between open loop and closed loop system (any 6). | 8  | L1 | CO5 |
|            | b. | Based on the configuration, explain the four types of Robots.                               | 8  | L2 | CO5 |
|            | c. | List the various applications of robots in various fields.                                  | 4  | L3 | CO5 |
| OR         |    |   |    |    |     |
| Q.10       | a. | Define Automation. Explain the three types of Automation.                                   | 7  | L1 | CO5 |
|            | b. | Describe the basic elements of automation system with block diagram.                        | 8  | L2 | CO5 |
|            | c. | Define IoT. List the characteristics of IoT (any 6).  | 5  | L1 | CO5 |

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