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18/SCI01/036

CSC 202 ASSIGNMENT

QUESTION; LIST EIGHT(8) ADVANTAGES OF INTEGRATED CIRCUITS

ANSWER;

- 1. Extremely small size – Thousands times smaller than discrete circuits. It is because of fabrication of various circuit elements in a single chip of semiconductor material.**
- 2. Very small weight owing to miniaturised circuit.**
- 3. Very low cost because of simultaneous production of hundreds of similar circuits on a small semiconductor wafer. Owing to mass production of an IC costs as much as an individual transistor.**
- 4. More reliable because of elimination of soldered joints and need for fewer interconnections.**
- 5. Lower power consumption because of their smaller size.**
- 6. Easy replacement as it is more economical to replace them than to repair them.**
- 7. Increased operating speed because of absence of parasitic capacitance effect.**

8. Close matching of components and temperature coefficients because of bulk production in batches.