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**18/SCI01/032**

**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.**