**GOVERNMENT ENGINEERING COLLEGE – BHUJ**

**Mechanical Engineering Department**

Subject: Computer Integrated Manufacturing Date: 05-09-2012

**ASSIGNMENT**

1. What are the three methods for solving the problem of grouping parts into families?
2. What is production flow analysis?
3. What is the composite part concept, as the term is applied in group technology?
4. Name three production situations in which FMS technology can be applied.
5. What is a flexible manufacturing system?
6. What are the four basic components of a flexible manufacturing system? Explain in detail.
7. Name all categories of layout configurations that are found in a flexible manufacturing system.
8. What are the five joint types used in robotic arms and wrists?
9. Name the five common body and arm configurations identified in the text.
10. What is the work volume of a robot manipulator?
11. What are end effectors?
12. What are the differences between point to point and continuous path control in a motion control system?
13. What are the differences between absolute positioning and incremental positioning?
14. What is distributed Numerical Control?
15. What is linear interpolation and why is it important in NC?

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**(Mech. Engg. Dept.)**