

(Time: 3 Hours)

Total Marks: 80

- N.B.: (1) All questions carry equal marks.
(2) Attempt any four questions.
(3) Figures to the right indicate full marks.
(4) Draw neat sketches wherever necessary.

- Q1. a) What do you mean by Concurrent engineering? Explain various elements of concurrent engineering with its advantages. **10**
b) Discuss various elements of CIM in detail. Also draw CIM wheel. **10**
- Q2. a) Explain Network Architecture in detail. **10**
b) Explain FMS with its merits. **10**
- Q3. a) Explain various types of sensors used for automatic inspection. **10**
b) How to carry out integration of CAQC with CAD/CAM. **10**
- Q4. a) Explain the implementation of Material Requirement Planning in large Manufacturing industry. **10**
b) Discuss distributed control and central control **10**
- Q5. a) Discuss product life cycle management and collaborative product development **10**
b) Explain CAPP in detail. **10**
- Q6. (a)Explain various types of rapid prototyping with diagrams. **10**
(b) What do you mean by group technology ? How grouping is done?
Enlist its advantages. **10**
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