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1. Explain the following terms:
 - (a) bill of material (5%)
 - (b) multidiscipline operator (5%)
 - (c) group technology (5%)
 - (d) low-level coding (5%)
 - (e) backward scheduling (5%)
 - (f) operating characteristic curve (5%)
 2. Draw a schematic diagram to present the scope and contents of Toyota production system. (15%)
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3. List a table to discuss the major differences between make-to-stock and make-to-order. (15%)
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 4. (a) What are distinctive competencies? (5%)
(b) List the key ways that business organizations compete. (5%)
 5. (a) What is the concept of green manufacturing? (5%)
(b) List six ways that companies can show their sensitivity to green manufacturing in product and process design. (10%)
 6. A firm has an annual demand for a component of 20,000 units, and there are 250 working days per year. The production rate is 100 units per day, and the lead time is 4 days. The unit production cost is \$50, the holding cost is \$10 per unit per year, and the setup cost is \$20 per run.
 - (a) What is the economic production quantity? (5%)
 - (b) What is the reorder point? (5%)
 - (c) What is the minimum total annual cost? (5%)

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