

Major Exam: MEL 754

Operations Planning and Control

Max marks 30, Duration 2 hrs

Answer to the 6th question should be written in a separate answer sheet

1. Explain the concept and use of measures of forecasting accuracy (including tracking signal) in forecasting. What are the consequences of inaccurate forecasting? What can be done to improve the accuracy? (5)
2. Using an appropriate numerical example, explain how seasonality index is used for forecasting. (5)
3. For a production system that assembles to order, what happens to inventory costs as the push pull interface moves closer to the customer? Explain with a suitable numerical example. (5)
4. Explain with an appropriate example, (5)
 - a. the differences between a pure pull and pure push type systems
 - b. similarity and differences between JIT and CONWIP
5. Explain how one should design assembly lines for a lean manufacturing environment? (10)
6. Explain any 5 important issues in supply chain management. (10)