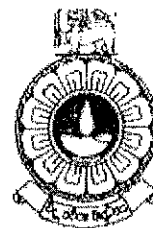


THE OPEN UNIVERSITY OF SRI LANKA
 DEPARTMENT OF TEXTILE AND APPAREL TECHNOLOGY
 POST GRADUATE DIPLOMA IN TECHNOLOGY IN
 APPAREL PRODUCTION AND MANAGEMENT
 FINAL EXAMINATION – 2016/2017
 TTI7137- PRODUCTION PLANNING
 DURATION: 3 HOURS



Date: 07th November 2017

Time: 0930-1230 hours

Total number of questions in this paper is seven (07). Answer five (05) questions.

1. (i) Briefly describe the sub functions related to production. (08 Marks)
- (ii) What are the objectives of having a production planning system in an organization? (05 Marks)
- (iii) Define the term “Forecasting” and explain the difference between forecasting and Prediction. (07 Marks)
2. (i) Briefly explain the terms “Long range planning” and “Short-range planning”. (05 Marks)
- (ii) State the functions of the planning department of a Garment factory. (05 Marks)
- (iii) Explain why production standards are important in an apparel manufacturing organisation. (10 Marks)
3. (i) Briefly explain the difference between plant loading and scheduling. (05 Marks)
- (ii) What do you understand by the term “Seasonality of demand”. (05 Marks)
- (iii) Explain the relationship of demand and production standards to capacity. (10 Marks)
4. (i) What are the objectives of having an aggregate production plan in an organisation? (05 Marks)
- (ii) Describe the aggregate planning strategies that can be used by a garment manufacturing company. (15 Marks)

5. (i) What are the steps in a forecasting process? (03 Marks)
(ii) Explain how the forecasting is done based on the findings of market research. (09 Marks)
(iii) Briefly explain the quantitative methods of forecasting. (08 Marks)
6. (i) What is meant by time series analysis? (04 Marks)
(ii) Briefly explain the capacity planning techniques, which can be used in a manufacturing unit. (08 Marks)
(iii) By using examples, explain the weighted moving average method in forecasting. (08 Marks)
7. Write short notes on the following in relation to production planning.
- (i) Trend projection (05 Marks)
(ii) Exponential smoothing (05 Marks)
(iii) Material requirement planning (05 Marks)
(iv) Buffer stock (05 Marks)