1056-90-176   **Anton Abdulbasah Kamil*** (`anton@usm.my`), School of Distance Education, Universiti Sains Malaysia, 11800 Penang, Penang, Malaysia, and **Md Azizul Baten**, School of Distance Education, Universiti Sains Malaysia, 11800 Penang, Penang, Malaysia. *Production Inventory Planning in a Stochastic Manufacturing System with Discounted Cost.*

The paper is concerned with the production inventory planning in a stochastic manufacturing system with minimizing the expected discounted production cost control problem. We develop the optimal production inventory control problem associated with the reduced (one-dimensional) Hamilton-Jacobi Bellman equation. The analysis proceeds with a study of the developed production inventory control problem with a discounted cost. We establish the uniqueness solution of this Hamilton-Jacobi-Bellman equation associated with this problem. (Received August 11, 2009)