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MANPOWER MODEL FOR A TWO GRADE SYSTEM WITH DIFFERENT RENEWAL PROCESSES FOR INTER-DECISION TIMES AND BIVARIATE POLICY OF RECRUITMENT

K. P. UMA[1] AND A. SRINIVASAN[2]

[1] Associate Professor of Mathematics,Department of Science & Humanities,
Hindusthan College of Engineering and Technology,
Coimbatore, Tamilnadu, India
[2] Associate Professor,P.G & Research Department of Mathematics,
Bishop Heber College, Trichy-17, Tamilnadu, India

Abstract

In this paper, an organization having two grades subjected to loss of manpower due to exodus of personnel is considered. Assuming that the inter-decision times for the grades form two different renewal processes, a mathematical model is constructed involving a bivariate policy of recruitment. The mean and variance of time to recruitment are obtained and the analytical results are numerically illustrated.

Key Words : *Manpower planning, Shock models, Bivariate recruitment policy, Mean and Variance of time to recruitment.*

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