Abstract
This paper deals with the steady state behavior of a Bernoulli vacation batch arrivals queue with two types of service and random system breakdowns. Such a model may find applications in many real life queueing situations. We assume that just before a service starts, a customer has the option to choose one of the two types of services. Further we assume that after a service completion, the server is allowed to take a single vacation under Bernoulli schedule. On the other hand, the system might suddenly break down while a customer is being served in any type of service, and hence it enters a repair process immediately. Service times, vacation time and repair time are all assumed to have general distributions. Some important performance measures of the queueing system we obtained.