# THE CONDITIONAL PROBABILITY DISTRIBUTIONS OF A RECALLING LEVEL OF EVENTS GIVEN A CERTAIN REFERENCE PERIOD

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## Abstract

In this paper, three conditional probability distributions of a recalling level of events given a certain reference period (an interval time between accurred events and quest about them) are derived. We consider two cases : (i) when the events are dependent, and (ii) when the events are independent. From applied view, these Distributions are very important in developing teaching techniques, advertising techniques, ........, directly, and in decisions making, which are been constructed on information from sampling surveys, indirectly. In addition, these Distributions are considered a necessary for all quantitative studies of a recalling level. Finally, applied study to determine the conditional probability distributions of a recalling level of students in Commerce Faculty, Banha, Zagazig University is presented. This study illustrates : (i) The goodness fitting of the theortical curves for the actual curves of the recalling levels of students, (ii) The effects of the lengths of the reference periods on the recalling levels of the students.