International J. of Math. Sci. & Engg. Appls. (IJMSEA) ISSN 0973-9424, Vol. 9 No. II (June, 2015), pp. 187-195

## A STUDY OF THE GENERALIZED SECOND ORDER MOCK THETA FUNCTIONS

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## Abstract

A generalization of second order mock theta functions is given and shown that these generalized mock theta functions belong to the class of  $F_q$ -function, q-integral representation and multibasic expansion of these generalized functions is also given.

Key Words: Mock theta functions, Basic hypergeometric series, q-integral representation multi-

basic expansion.

2000 AMS Subject Classification: 33D15.

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