

1100-33-112

Ajay K Shukla* (ajayshukla2@rediffmail.com), Department of Applied Mathematics & Hum., S V National Institute of Technology, Surat, 395 007, India. *Extention of Sheffer Classification for Two Variables.*

Sheffer [Some properties of polynomial sets of type zero, Duke Math. J. 5 (1939), pp.590-622] studied polynomial sets zero type and many authors investigated various properties and its applications. Brown [On the Sheffer A-type of certain Modified Polynomial sets, Proc. Amer. Math. Soc., Vol. 23, 1969, pp.718-722.] studied Appell sets and Sheffer A- type certain modified polynomial sets. In the sequel to the study, we discuss some generalizations the Sheffer polynomials by using partial differential operator in two variables and some properties of σ -type polynomials in one and two variables, we also include the generalizations of Appell set, Sheffer A-type zero and α -type polynomial sets polynomials in two variables with their properties.

(Received February 04, 2014)