



**Optimization of Procedure for Dyeing of Cotton Fibers with *Rhododendron Arboreum* Flowers Using *Symplocos Racemosa* Leaves as Mordant**

**Pranjali Purohit, Jyoti Kundal and M.C.Purohit\***

\*Department of Chemistry, H.N.B.Garhwal(Central)University, Pauri Campus, Pauri(Garhwal),Uttarakhand, **INDIA**

Email: [mcpurohit123@gmail.com](mailto:mcpurohit123@gmail.com)

Accepted on 18<sup>th</sup> November 2015

---

**ABSTRACT**

*Uttarakhand is marked by a rich biodiversity and diverse natural products. Henceforth one such highly useful natural product is dye. Traditional users of the state have been using several plants for dyeing of fibres. Flowers of *Rhododendron arboreum*, the state tree, offer a potential source of natural dye. In the present paper, an attempt has been made to extract natural dye from *R.arboreum* flowers and to optimize conditions of concentration and time for dyeing cotton sample from the extracted dye. Also, dyeing procedure was optimized by using *Symplocos racemosa* leaves as mordant.*

**Keywords:** Natural dye, *Rhododendron arboretum*, *Symplocos racemosa*, Mordant, %absorbance.

---