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### Diploma in Pharmacy 1<sup>st</sup> Year Pharmacognosy Experiment

To perform the morphological study of Punarnava.

### Aim:

To perform the morphological study of Punarnava.

## **Reference :**

Dr. Gupta G.D , Dr. Sharma Shailesh , Kaur Navjit , "Practical Manual of Pharmacognosy" Published by Nirali Prakashan , Pg.No 51 - 54

# Synonyms

Hogweed, Raktakunda.

# Biological Source :

Punarnava consists of whole roots and herb of Boerhavia diffusa, belonging to family Nyctaginaceae.

# **Morphological Characters**

This form of evaluation involves a series of tests using the sense organs. It refers to evaluation of.

- Colour: The colour of the upper surface and lower surface of the leaves are green and white respectively. The colour of the stem is greenishpurple and the colour of the flower is pink on the upper side.
- 2) Size and Shape: Leaves range in length from 25 to 30mm. Small leaves are ovate, oblong sub-orbicular, and somewhat pointed at the apex, with a rounded or sub-cordate base. The leaves are petiolate, glabrous, and have a thick texture. The petioles are twice as long as the blade. The margin is present all over the leaves.



- 3) Taste: It is bitter in taste.
- **4) Odour:** It is odourless.
- **5) Stems:** At the nodes, stems are cylindrical, rigid, and thick. They are 1 metre long and branched. The stems are a bright reddish-brown colour at the top and a pale greenish colour at the bottom.
- **6)** Flowers: These are internally sessile in small umbels, about 10 to 25mm in length.
- 7) Fruits: They are one sided, glandular, and about 0.5cm in size.
- 8) Roots: The roots of this plant are elongated, fusiform, tapering, and tuberous. Roots grow vertically downwards, piercing the soil deeply. They have exceptionally soft skin and are cream or light brownish-yellow colour. The knotty scars of fallen rootlets are common on old roots.



### **Result :**

The morphological study of Punarnava was performed.

