

Kazi Nazrul University

Raniganj Girls' College



Department of Mathematics

BSc Houners 1st Semester

Season 2021-22

Registration Number- 113211220032

College Roll no- BS071

Course Name- Environment Studies

Course code- AEE101

Tropic- *Qualitative Study of
Medicinal Plant :
Rose Periwinkle*

Raniganj Girls' College

Course Name: Environment Studies

Course Code: AEE101

Topic of the project: QUALITATIVE STUDY OF MEDICINAL PLANTS

A Project Report

Submitted by Semester-I students

(Academic Year 2021-22)

Name of the student	Registration Number
ANKITA KUNDU	113211220010
BINITA GHATAK	113211220011
HIRA DAS	113211220013
URMI MONDAL	113211220015
JOYSHREE GORAI	113211220016
NIVEDITA MONDAL	113211220018
NIKITA GORAI	113211220019
MOLLIKA BOURI	113211220022
ANINDITA SAMANTA	113211220025
MOUMITA BANERJEE	113211220026
SUSMITA BAGDI	113211220044
SUSMITA SARKAR	113211220045
KRISHNA GORAI	113211220055
RIYA GORAI	113211220056
ANKITA ROY	113211220023
SNEHA MONDAL	113211220024
PRIYANKA DAS	113211220032
AMBALIKA KHAN	113211220036
SRESTHA CHATTERJEE	113211220042
ASHESA CHATTERJEE	113211220050
RUBI MAJI	113211220014
SOMASREE NANDI	113211220027
PRIYANKA KUMARI	113211220037
NIBEDITA BAG	113211220040
JAYSHRI MANDAL	113211220041
PURBITA DEY	113211220047
SUDESHNA PANDA	113211220005
ANUNITA BANERJEE	113211220021

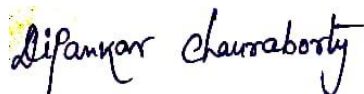
CERTIFICATE

This is to certify that this project titled “QUALITATIVE STUDY OF MEDICINAL PLANTS” submitted by the students for the award of degree of B.A. Honours/ Program is a bonafide record of work carried out under my guidance and supervision.

Name of the student	Registration Number
ANKITA KUNDU	113211220010
BINITA GHATAK	113211220011
HIRA DAS	113211220013
URMI MONDAL	113211220015
JOYSHREE GORAI	113211220016
NIVEDITA MONDAL	113211220018
NIKITA GORAI	113211220019
MOLLIKA BOURI	113211220022
ANINDITA SAMANTA	113211220025
MOUMITA BANERJEE	113211220026
SUSMITA BAGDI	113211220044
SUSMITA SARKAR	113211220045
KRISHNA GORAI	113211220055
RIYA GORAI	113211220056
ANKITA ROY	113211220023
SNEHA MONDAL	113211220024
PRIYANKA DAS	113211220032
AMBALIKA KHAN	113211220036
SRESTHA CHATTERJEE	113211220042
ASHESA CHATTERJEE	113211220050
RUBI MAJI	113211220014
SOMASREE NANDI	113211220027
PRIYANKA KUMARI	113211220037
NIBEDITA BAG	113211220040
JAYSHRI MANDAL	113211220041
PURBITA DEY	113211220047
SUDESHNA PANDA	113211220005
ANUNITA BANERJEE	113211220021

Place: Raniganj

Date: 07.03.2022



State Aided College Teacher-II, Department of Geography

Signature of the supervisor with designation and department



Kazi Nazrul University

Asansol West Bengal - 713340

REGISTRATION CERTIFICATE

This is to certify that **PRIYANKA DAS**

Son/Daughter of N. PRADIP KUMAR DAS

of RANIGANJ GIRLS' COLLEGE

is registered as a student of this University,

His/Her registration number is 113211220032 of 2021-22



Registrar

Acknowledgement

Primarily I would thank God for being able to complete this project with success. Then I would like to thank my EVs teacher Mr. Dipankar Chakraborty whose valuable guidance has been the ones that helped me patch this project and make it full proof success his suggestions and his instructions has served as the major contributor towards the completion of the project.

Then I would like to thank my parents and friends who have helped me with their valuable suggestions and guidance has been helpful in various phases of the completion of the project.

Last but not the least I would like to thank my classmates who have helped me a lot.

08/03/2022

Date

Prizanka Das

Student's Signature

Index

<u>SL.no</u>	<u>Contents</u>	<u>Page no</u>
1.	Introduction	1
2.	Rose Periwinkle: Medicinal Plant	2
3.	Reason for choosing Rose Periwinkle as Medicinal Plant	3
4.	Some features of Rose Periwinkle	4
5.	Chemical ingredients	4
6.	Uses	4
7.	Gallery	5.
8.	Conclusion	6
9.	Bibliography	7

Introduction :-

The term "medicinal plant" include various types of plant used in herbalism. It is use of plants for medicinal purposes, and the study of such uses.

Plants have been used for medicinal purpose long before prehistoric period. Ancient Unani manuscripts Egyptian papyrus and chine writings described the use of herbs. Traditional systems of medicine continue to be widely practised of many accounts. Population size, inadequate supply of drugs, prohibitive cost of treatments, side effects of several synthetic drugs.

Treatment with medicinal plants is considered very safe as there is no or minimal side effects. These remedies are in sync with nature, which is the biggest advantage. The golden fact is that, use of herbal treatments is independent of any age groups and the sexes.

Some example of medicinal plant -

Aloe vera, tulsi, Coriander, mint, Neem, Henna, Lavender, Cinnamon, Peppermint, Bael, Khus, Giloy etc.

I chose this Rose Periwinkle from the medicinal plant.

Rose Periwinkle : Medicinal Plant

Scientific taxonomy

World :- Plants

Category :- Magnoliopsida

Square :- Gentianales

Family :- Apocynaceae

Mass :- Catharanthus

Species :- *C. roseus*

Binomial name :- *Catharanthus roseus*

Synonyms :- *Vinca rosea*

Description :-

It is native to Madagascar but is found in several other countries, including Bangladesh, India, Pakistan and Africa. It is a herbaceous plant. Anniversary. Sometimes it is seen to survive for many years. However, when it gets old and not take care of, the tree becomes hard and does not hold flowers. It is not seen to grow more than 2/3 feet. Leaves opposite, smooth, oblong or ovate. Flower with five petals. Flowers pink, light pink and white. However, the smell is not swollen. Stem conch type, colour purple or white, perennial plant, propagated by seed.

Reason for choosing Rose Periwinkle as medicinal Plant

- ① *Nayantara* flowers and bears fruit throughout the year.
- ② Seedling can be obtained by sowing seeds directly in the ground or in tubs. Many time ripe seeds fall under the tree and new seedling grow.
- ③ *Nayantara* leaves and roots are used as herbs. About 70 alkaloids are found in the sap of the whole tree. *Nayantara* helps in lowering blood pressure and acts as a sedative.
- ④ If you want to get immediate benefit from the sting of insect bites or wasps, beetles, bees and bumblebees, you have to crush the leaves of *Nayantara* and apply the juice.

For all these reasons, I have chosen Rose Periwinkle as a medicinal plant.

Some features of Rose Periwinkle :-

- Their stems are purple in the corners.
- The leaves are ablong, ovate at the base, 4-6 cm long, smooth.
- These trees bloom almost all the year round.
- The flowers are white or pink, the whole flower is monochromatic but the midpoint of the flower is also of another colour.

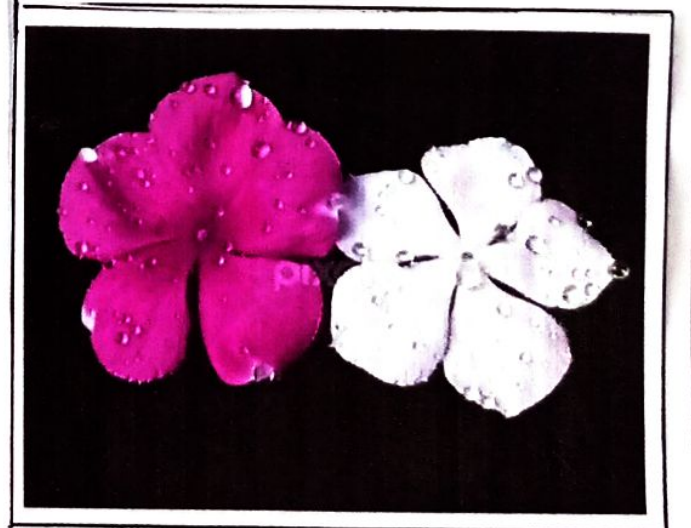
Chemical ingredients :-

The leaves, flower and twigs of the tree contain many valuable chemical elements. More than 60 alkaloids are found from this tree. Vincristin and vinblastin are two alkaloids that have special uses in leukemia. A type of chemical called delta-cholombin is found.

Use :-

It is used in various diseases including warm disease, meningitis, leukemia, diabetes, high blood pressure, rheumatism and diabetes. In order to get quick relief from the sting of wasps, etc, the use of eye or flower juice can be noticed.

Gallery



Conclusion

Catharanthus roseus is an evergreen subshrub or herbaceous plant. Vinblastine and vincristine, chemotherapy medication used to treat several types of cancers, are found in the plant and are biosynthesised from the coupling of the alkaloids catharanthine and vindoline.

Bibliography

- 1) <https://bn.m.wikipedia.org/wiki/Nayantora>
- 2) Dwijen Sharma, Flower Like Talk, Bangla Academy, Dhaka, December 2003, page - 56
- 3) "Eye-catching eyesight". The Daily Sangram. Archived from the original on 5 March 2018. Date of Collection 30 August 2013.
- 4) en.m.wikipedia.org/wiki/Catharanthus_roseus

