

Gujarat Arts and Science College, Ahmedabad

Educational Tour Report – Indroda Nature Park, Gandhinagar

Date: 13th October 2022

Destination: Indroda Nature Park, Gandhinagar

Participants:

- **Students:** 28 (B.Sc. Semester – 5 Botany)
- **Faculty:** 2 Botany faculty members

As part of the B.Sc. Botany curriculum, an educational tour to Indroda Nature Park in Gandhinagar was organized on 13th October 2022. The objective of the tour was to provide practical exposure to the students regarding various plant species and ecosystems.

The group, consisting of 28 students and 2 faculty members, gathered at the entrance of the park at 8:00 AM.

First the students were introduced to various sections, including the botanical garden, fossil park, cactus garden and medicinal plant area. The faculty guided the students through different plant species, explaining their characteristics, ecological importance, and uses. This hands-on experience allowed students to observe plant morphology, understand plant taxonomy, and recognize the significance of conservation.

The visit also included an interactive session with the park's botanical expert Mr. Chandrakant Damor who shared insights on plant preservation and biodiversity. Students were encouraged to ask questions, enhancing their learning experience.

The tour concluded at 3 PM. Students were enriched with knowledge and a deeper appreciation for botanical science and environmental conservation. The trip was a significant educational experience, reinforcing classroom learning with real-world observations.

તા. ૧૧/૧૦/૨૦૨૨

પ્રતિ,
આચાર્યશ્રી,
ગુજરાત આર્ટ્સ એન્ડ સાયન્સ કોલેજ,
અમદાવાદ.

વિષય: વનસ્પતિશાસ્ત્ર સેમેસ્ટર-૫ ના વિદ્યાર્થીને અભ્યાસ અર્થે ઈન્દોડા નેચર પાર્ક, ગાંધીનગર ખાતે એક દિવસીય શૈક્ષણિક પ્રવાસ માટે મંજૂરી આપવા બાબત....

માનનીય આચાર્યશ્રી,

જય ભારત સહ જણાવવાનું કે, વનસ્પતિશાસ્ત્ર સેમેસ્ટર ૫ ના વિદ્યાર્થીને અભ્યાસ અંતર્ગત શૈક્ષણિક પ્રવાસ વન્ય-વિસ્તાર અને વનસ્પતિ ઉદ્યાન ની મુલાકાત દ્વારા વનસ્પતિ અંગે નું જ્ઞાન, પારીસ્થીતીકીય સમજ કેળવાય હેતુથી પારીસ્થીતીકીયમાં આયોજન કરવાનું સૂચવેલ છે.

જે અર્થે ઈન્દોડા નેચર પાર્ક, ગાંધીનગર ની એક દિવસીય શૈક્ષણિક પ્રવાસ તા. ૧૩/૧૦/૨૦૨૨ ના રોજ યોજવાનું આયોજન કરવાનું હોઈ, ઉક્ત બાબતે આ શૈક્ષણિક પ્રવાસને મંજૂરી આપવા સાડુ આપ સાહેબશ્રીને નમ્ર વિનંતી કરવામાં છે.

આભાર સહ,



અધ્યક્ષ



જીવ વિજ્ઞાન વિભાગ
ગુજરાત આર્ટ્સ એન્ડ સાયન્સ કોલેજ,

બિડાણ: ૧. પ્રવાસમાં જનાર વિદ્યાર્થીઓ અને પાઠ્યાપકની યાદી

૨ જુન ૨૦૨૨
ને માં જણાવેલ મુજબ શૈક્ષણિક પ્રવાસ ના
મંજૂરી આપીએ,


11/10/2022
Gujarat Arts & Science College
Ahmedabad

List of Sem-5 Botany Students
Study Visit to Indroda Nature Park, Gandhinagar
Dt. 13/10/2022

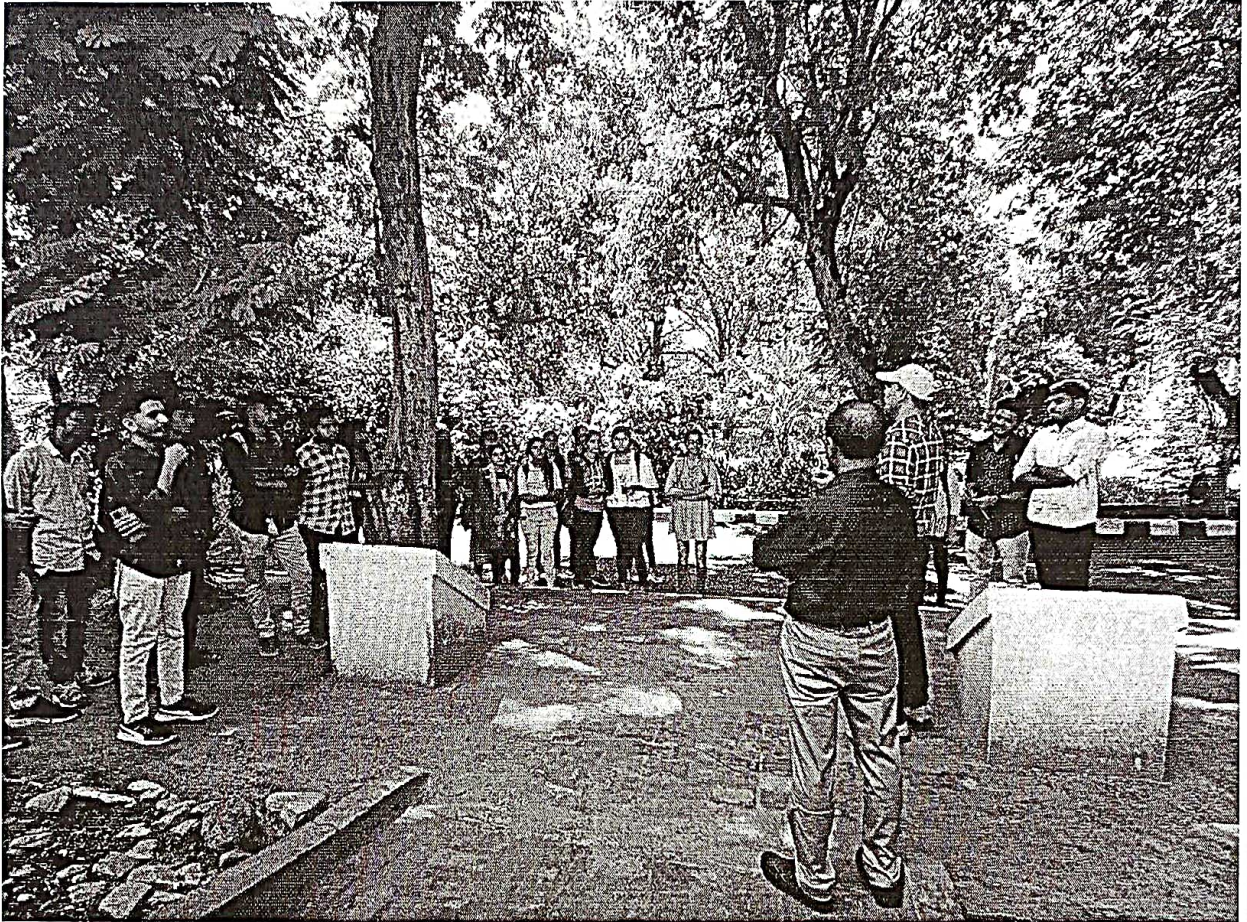
Sr. No.	Name of the students	Roll number
1	Chaudhari PrerakKumar Rohitbhai	346
2	Bhadauriya varsha harisingh	347
3	Dabhi Nilamben Kanubhai	348
4	Damor Aditya Girishkumar	349
5	DAMOR PURVI SHANKAR BHAI	350
6	Vishalbhai Hasmukhbhai Ganvit	351
7	Harsoda shubham	352
8	Hirapara Kunj R.	353
9	Karishma Kumari Meena	356
10	Kurkutiya Nilamben somalbhai	358
11	Harshal Lakdawala	359
12	Mali Pramila Kumari jivaram	360
13	MANG ANKITA SUNILBHAI	361
14	Riyank Mansawala	362
15	Pal Neha Gangasagar	364
16	Parmar khushi bakulbhai	365
17	Siddhraisinh parmar	366
18	Patel Nikunj Kumar Ishvarbhai	367
19	Patel Vrushti kanaiyalal	368
20	Patel yuktakumari ishwarbhai	369
21	Raut Tejasvini	371
22	Ravina Kumari Meena	372
23	Rohit Mansiben Laxmanbhai	373
24	Sarvaiya Sujalsinh Arvindsinh	374
25	Sharma Nisha	375
26	TADVI HINAL KANUBHAI	376
27	FALGUNI VASAVA	377
28	VASAVA WILSON PACHIYABHAI	379

List of Professors:

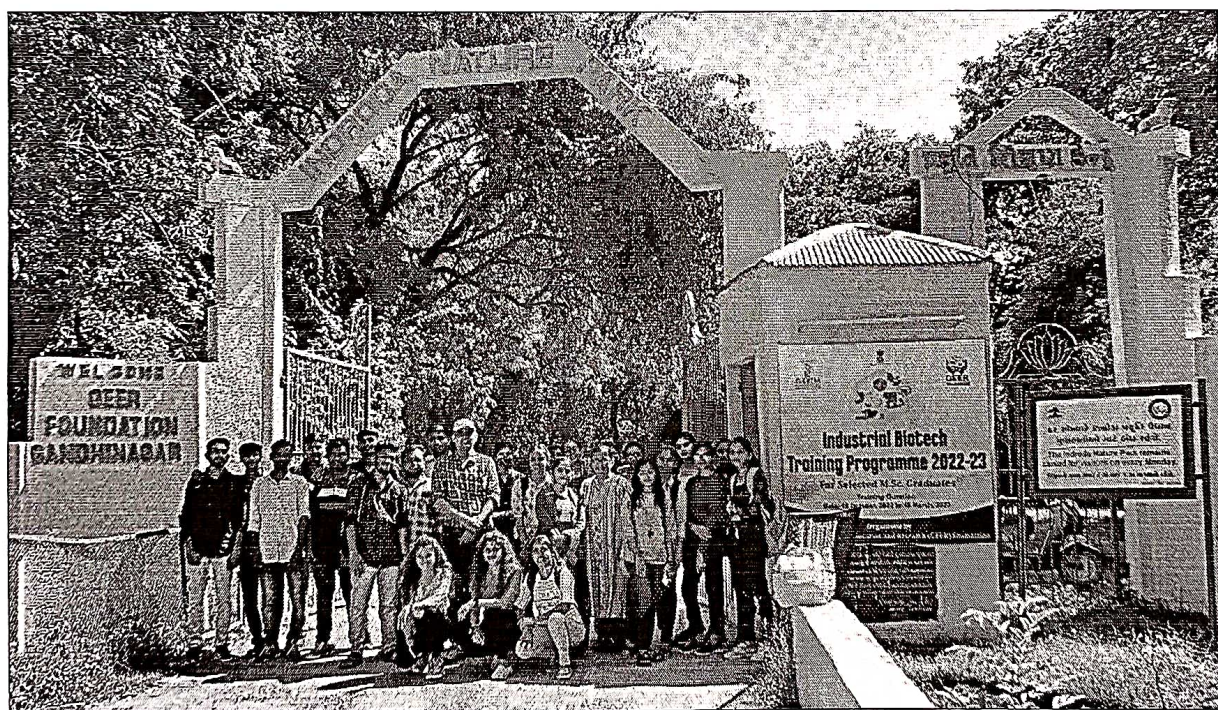
- 1 Dr. Amita Tatu, Associate Professor, GASC, Ahmedabad.
- 2 Dr. Harshad Salvi, Assistant Professor, GASC, Ahmedabad.


Head
Department of Biology
Gujarat Arts & Science College
Ahmedabad





**GUJARAT ARTS & SCIENCE
COLLEGE, AHMEDABAD
(DEPARTMENT OF BOTANY)
EDUCATIONAL TOUR REPORT
2022-23**



REPORT SUBMITTED BY

VISHAL H GANVIT

ENROLLMENT NO-202102190097

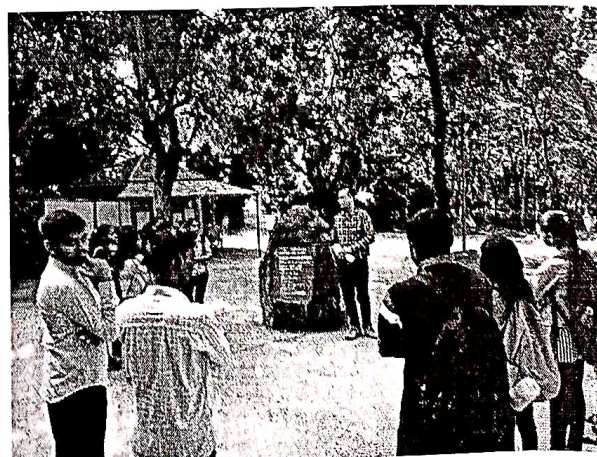
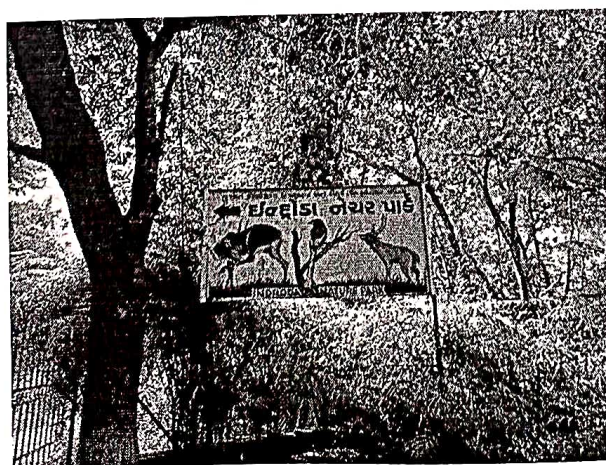
BSC SEM 5

INTRODUCTION

Excursions are arranged to give exposure to students. Field education is equally important as classroom teaching. It adds vigor in learning processes and relieves monotones of indoor education. Field study is an essential part of botany as plants are best studied in their natural habitat. These tours also help to build good repo amongst students and teachers.

As a part of B.Sc. Curriculum, one day trip was organized by to Indroda Nature Park, Gandhinagar by Department of Botany, Gujarat Arts & Science College, Ahmedabad on 13 October, 2022 for semester V (third year) botany students. The major objective was to familiarize the students with the wild and cultivated flora and ecology of the region. A group of 30 students were accompanied by Dr. Harshad Salvi (Assistant Professor) and Dr. Amita Tatu (H.O.D) of Botany department.

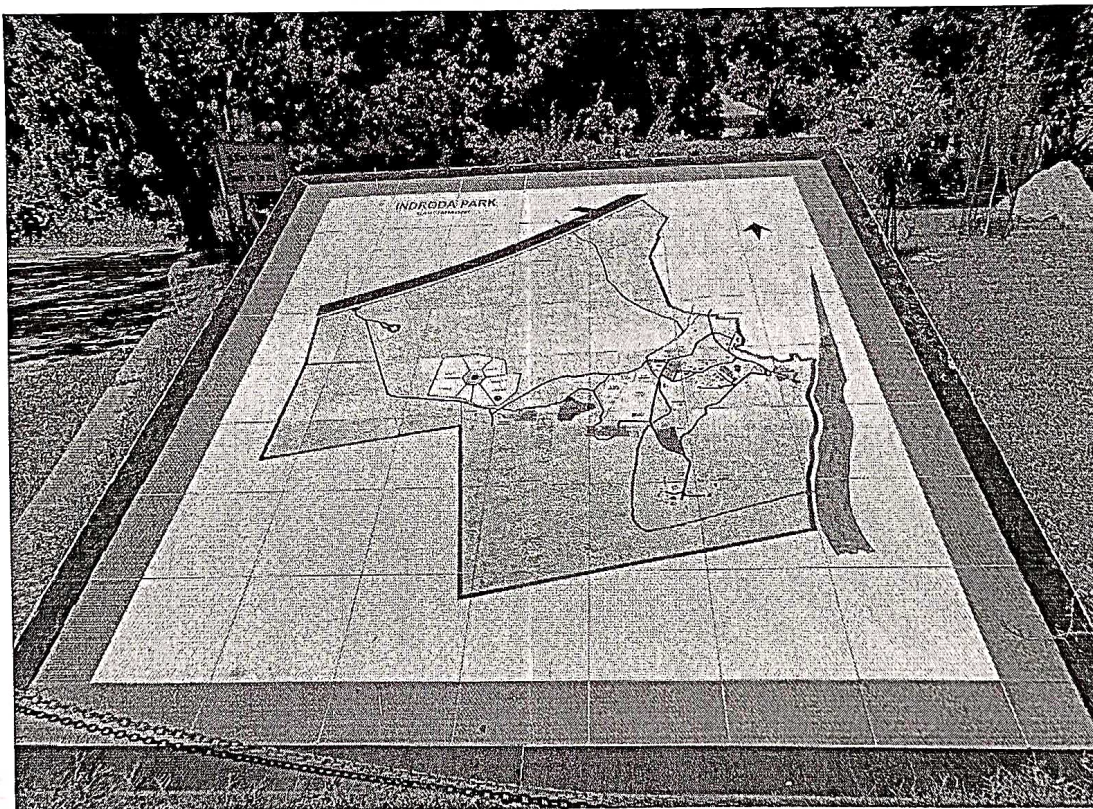
INP Forest The entire land of the park on the western bank of river Sabarmati supports over 1.33 lakhs indigenous trees, interspersed with several ornamental exotic trees. Over 136 species of trees have been recorded in the wilderness park.



INFORMATION ABOUT INDRODA NATURE PARK

Indroda Nature Park (INP) is spread over an area of about 400 ha in Gandhinagar- the capital city of Gujarat. The Park is divided into two parts on the banks of river Sabarmati. The western part is known as Indroda Nature Park and the eastern part of the river Sabarmati is known as Wilderness Park

It is run by the Gujarat Ecological Education and Research Foundation (GEER).



Map of Indroda Nature Park

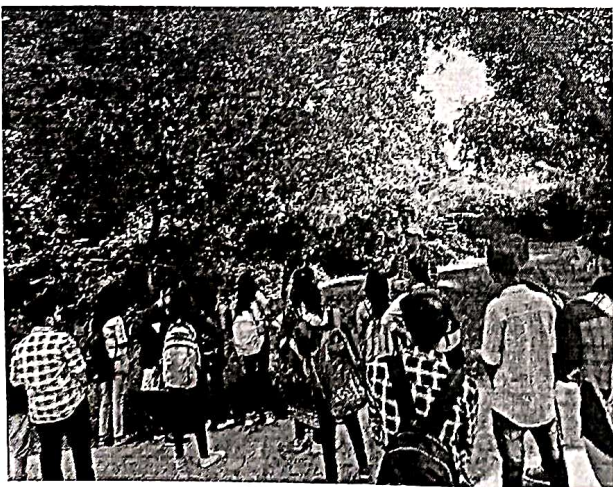
Gandhinagar

And the trip started...

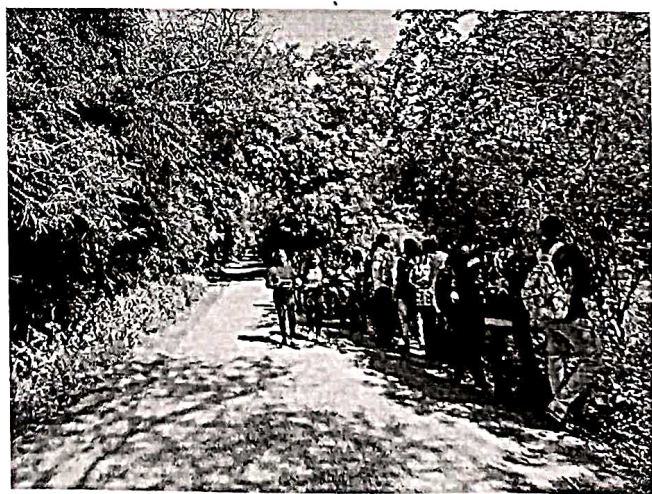
On 13 October, 2022 all the students and faculty members have assembled at the gate no. 1 of Indroda Nature Park at 9:00 AM. The study of plants begins with the exploration of surrounding open area nearby Indroda Nature Park to study plants in their wild habitat.

We all are seen the plants with their habitat, structure, and important characteristic nature of a particular plant with the help of our botany department lectures and also learn by our professor.

We all are getting the knowledge of Plant Taxonomy and also we all are collected the plant twig or branch or part of an plant for the Herbarium, we all are bring with the requirements of pressing or making the Herbarium.

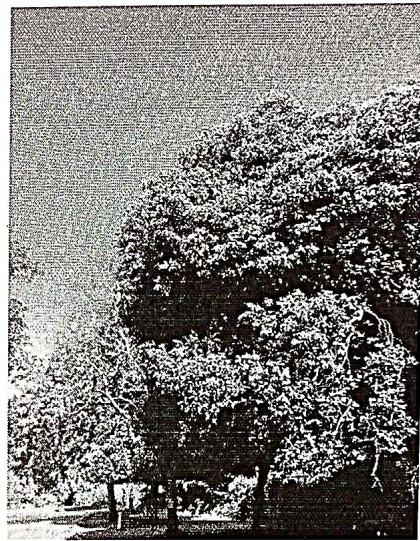
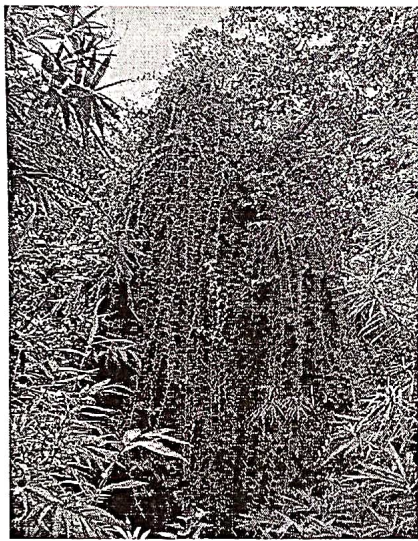


Exploring Wild Flora and their Habbits



Learning plant Collection and Herbarium preparation

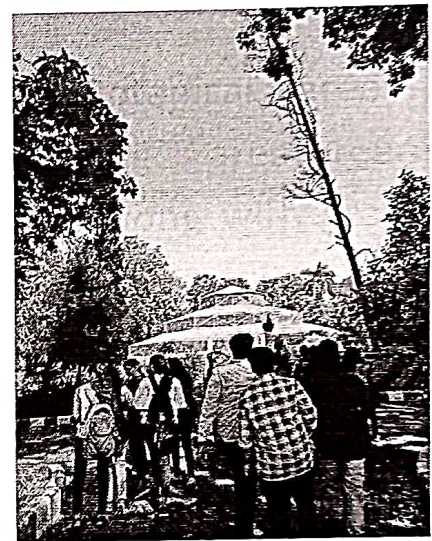
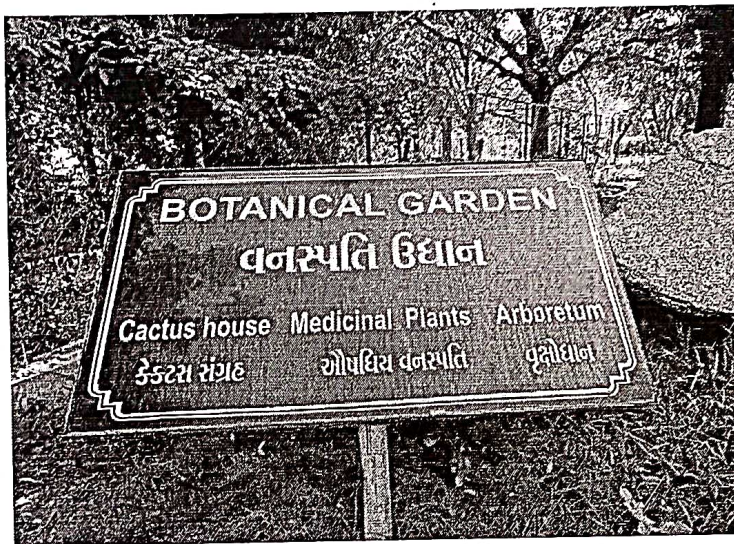
The plants recorded in the field visit mainly belong to Asteraceae, Arecaceae, Acanthaceae, Rutaceae, Solanaceae, Euphorbiaceae, Piperaceae, Malvaceae, Asteraceae, Liliaceae, Myrtaceae, Caesalpiniaceae, Fabaceae, Papilionaceae, Solanaceae Family highest member of plant species located or present in Indroda Nature Park.



Plants found like ex. Wild Trees, Shrubs, Climbing plants, Tropical plants, Grasses etc.

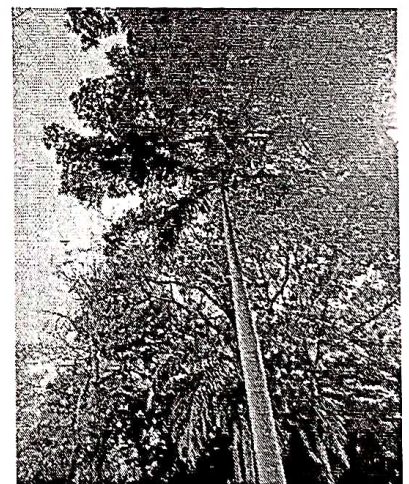
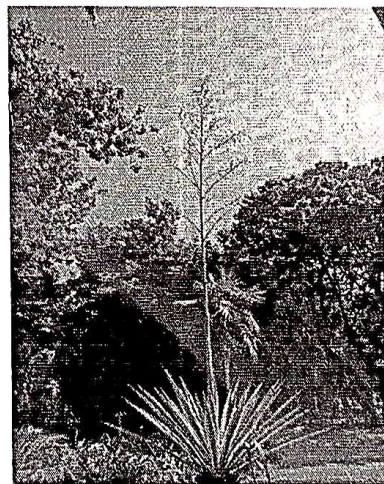
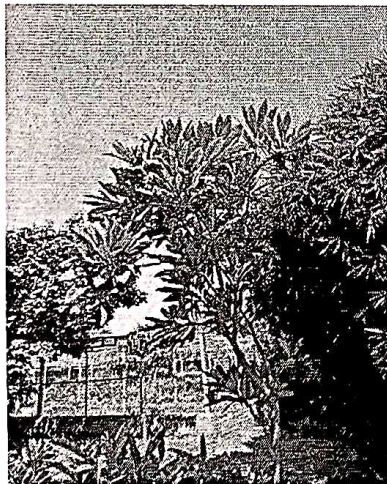
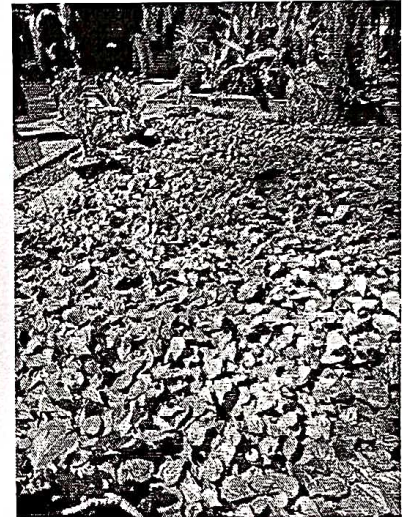
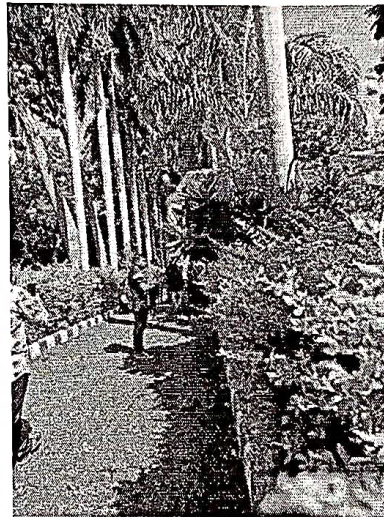
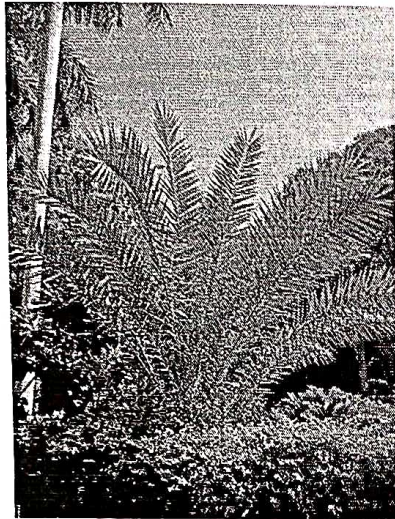
At 11 O'clock, the team has entered in the Botanical Garden. It has many attractions like Walking area, Green House, Thought Garden, Children Play area along with great plant diversity, topiary and vertical gardens. We found this place very fruitful in order to study the plant diversity along with concepts of horticulture.

BOTANICAL GARDEN



The Botanical Garden at INP has been developed to increase public awareness about plant science and medicinal plants. It aims at collecting, compiling, translating and publishing popular science works. At present, the Botanical Garden has a collection of about 800 plant species. It also provides a wonderful out-of-classroom experience for learning about plants to school/college students. It comprises of following 4 sections.

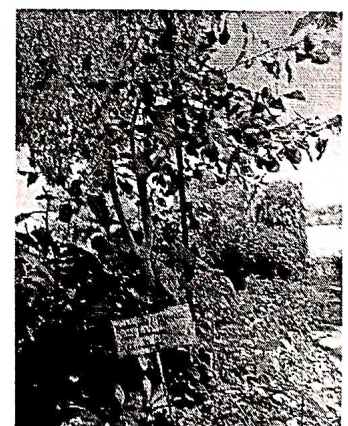
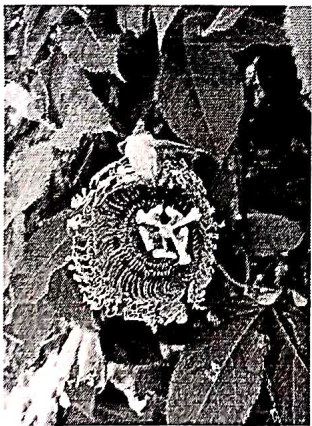
In Botanical Garden we are found so many Ornamental plants, Climber plants, Flowering plants, Medicinal and Aromatic plants, Exotic plants, Herbaceous plants, Bonsai.



Name of the few plants are like as follows.

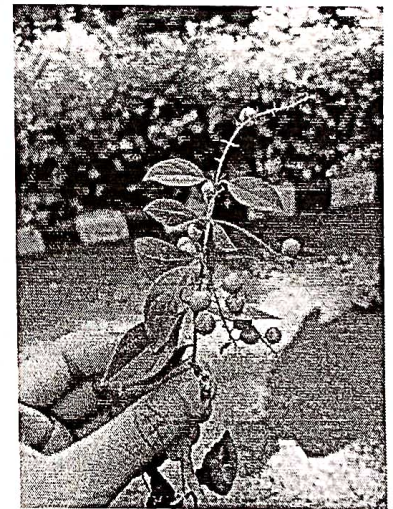
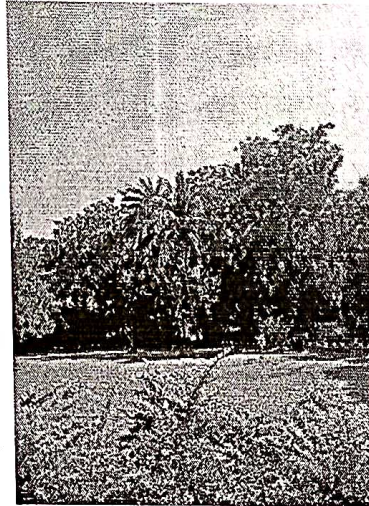
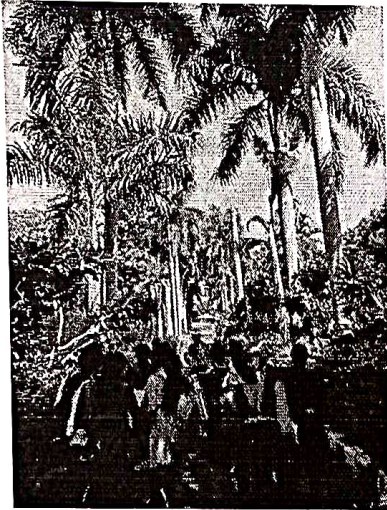
Name	Scientific Name	Family
Passion Flower	<u><i>Passiflora incarnate</i></u>	Passifloraceae
Rubber plant	<u><i>Ficus elastic</i></u>	Moraceae
Honeysuckle	<u><i>Tecomaria capensis</i></u>	Bignoiaceae
Verbena	<u><i>Verbna hybrid</i></u>	Verbenaceae
Nagod	<i>Vitex negundo L.</i>	Verbenaceae

Red cat tail	<u><i>Acalypha hispida</i> Burm.</u>	Euphorbiaceae
Laving	<u><i>Syzygium aromaticum</i></u>	Myrtaceae
Krishna vad	<u><i>Ficus krishmae</i></u>	Moraceae
Lal Karen	<u><i>Nerium oleander</i></u>	Apocynaceae
Garmar	<u><i>Coleus barbatus</i> benth</u>	Lamiaceae
Lychee	<u><i>Litchi chinensis</i></u>	Sapindaceae
Bhadraksh	<u><i>Scaevda taçada</i></u>	Goodeniaceae
Davlo	<u><i>Sterculia guttata</i></u>	Sterculiaceae
Simarouba	<u><i>Simarouba glauca</i> Dc.</u>	Simaroubaceae
Ram Tulsi	<u><i>Ocimum Sanctum</i></u>	Lamiaceae
Champo	<u><i>Plumeria rubra</i></u>	Apocynaceae
Nagar veli	<u><i>Piper betle</i></u>	Piperaceae
Asparagus	<u><i>Asparagus officinalis</i></u>	Asparagaceae
Kali Mari	<u><i>Piper nigrum</i></u>	Piperaceae
Duranta	<u><i>Duranta</i></u>	Verbenaceae
Bougainvillea	<u><i>Bougainvillea</i></u>	Nyctaginaceae
Royal palm	<u><i>Roystonea regia</i></u>	Arecaceae
Coconut palm	<u><i>Cocos nucifera</i></u>	Arecaceae
Eucalyptus	<u><i>Eucalyptus</i></u>	Myrtaceae
Chrysanthemum	<u><i>Chrysanthemum coronarium</i></u>	Asteraceae

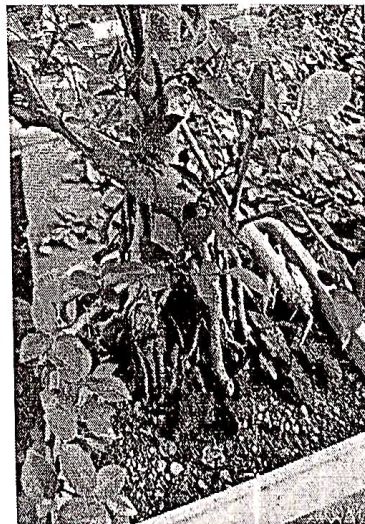
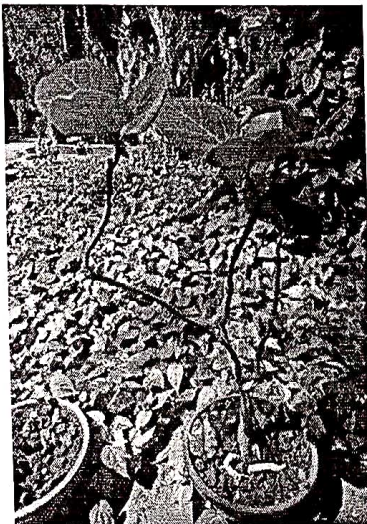


Floral diversity of the & Exploring plant species

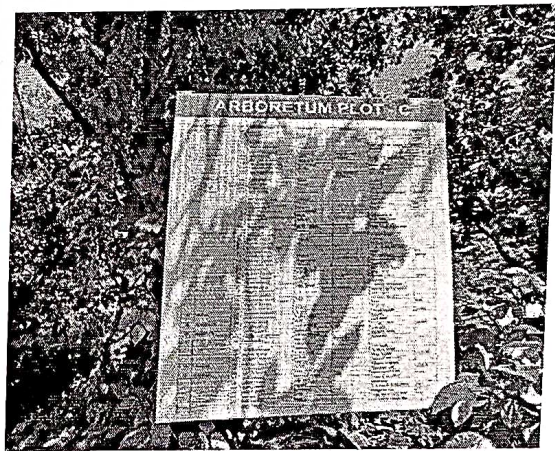
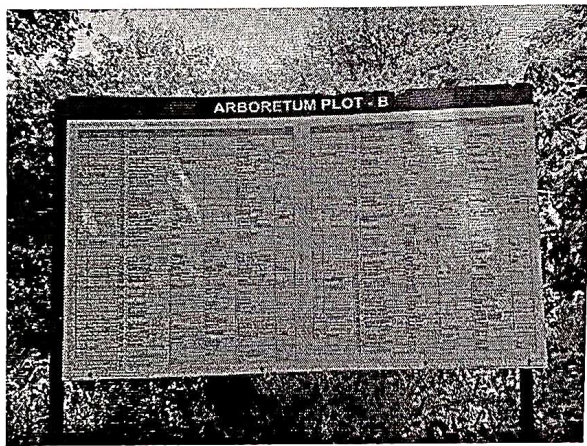
We have walked through the garden, exploring the plants on the way. Students were made to identify the plants with their scientific name, family, identifying characters along with their importance. Some of the flowering twigs have been collected for the study of the families in syllabus. Students have observed various topiaries, bonsai, and vertical garden, plants used in the formation of hedges and also to develop other parts of the park



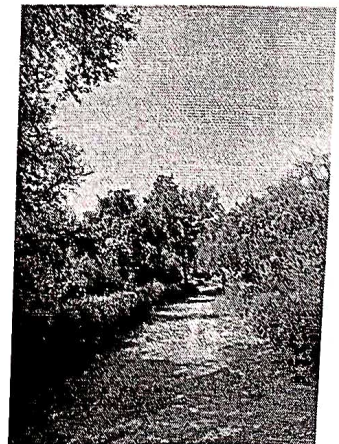
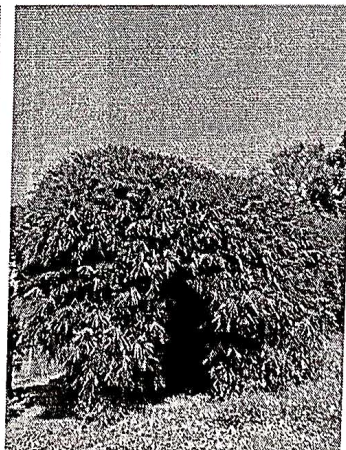
Bonsai Plants:-



Arboretum is a collection of tree species, in the form of plantation with proper display of botanical details of the plant. There are 327 tree species identified in Gujarat state. The arboretum plot in the botanical garden is spread over an area of 2.5 ha. So far 250 tree species have been planted in this plot.



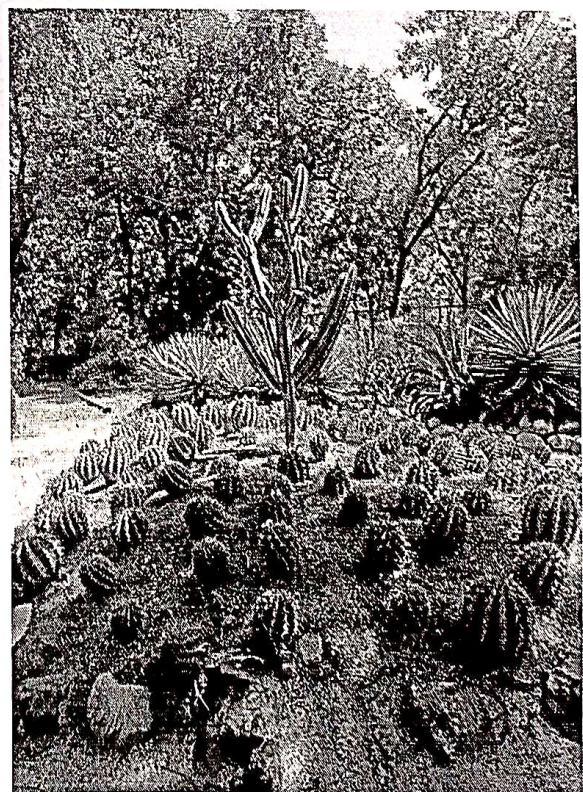
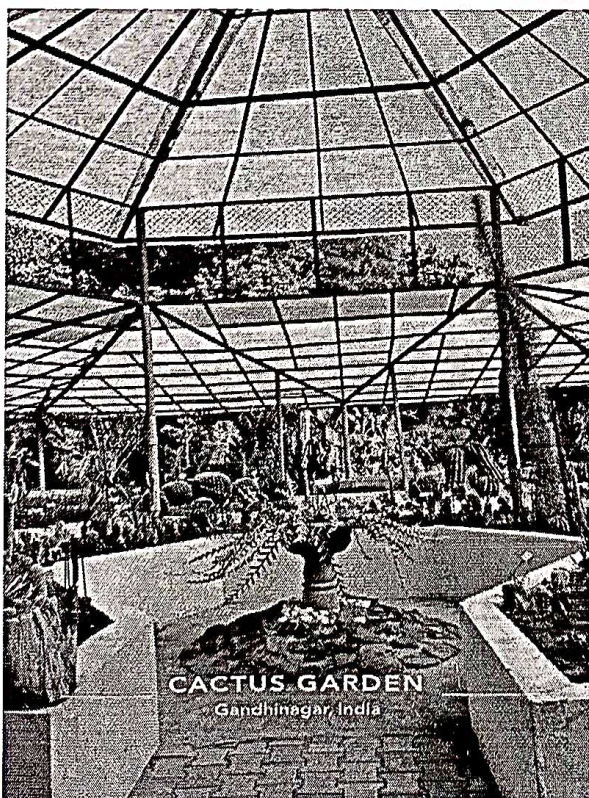
Bamboo collection has all six species of bamboo found in Gujarat. It is being developed to raise all the species occurring in Western India and a few other species.



Cactus house contains more than 163 species of these succulent plants. The information about species, habitat, etc. is displayed for the knowledge of the visitors. The beautiful flowery plants are one of the major attractions.

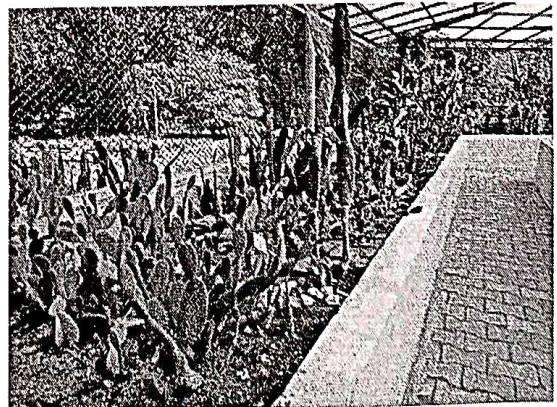
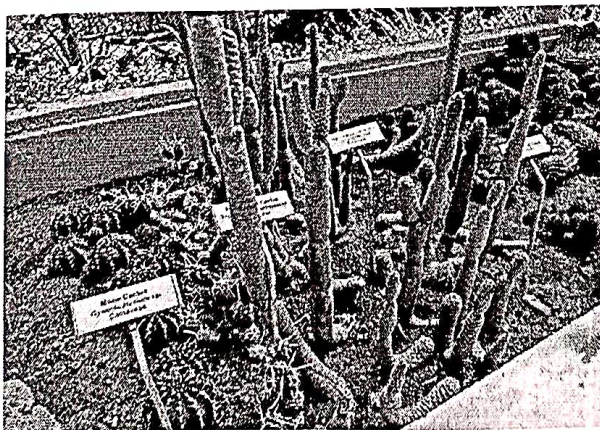
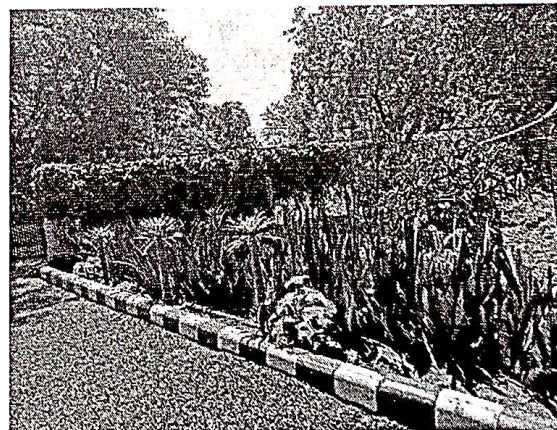
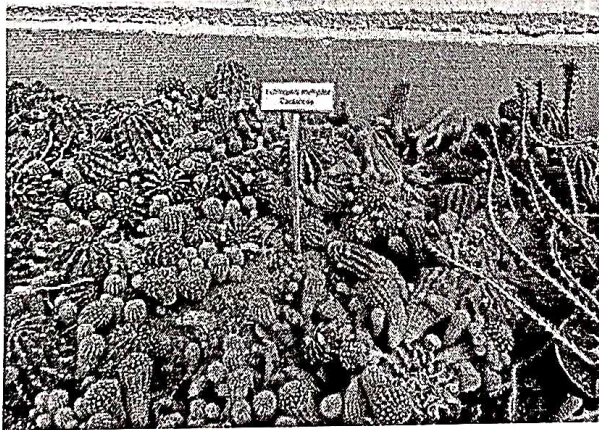
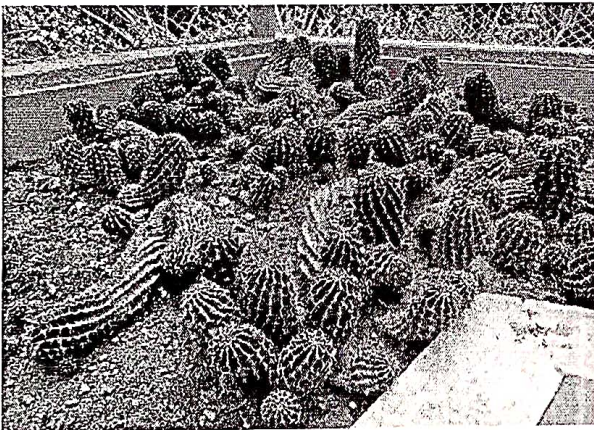


Cactus House

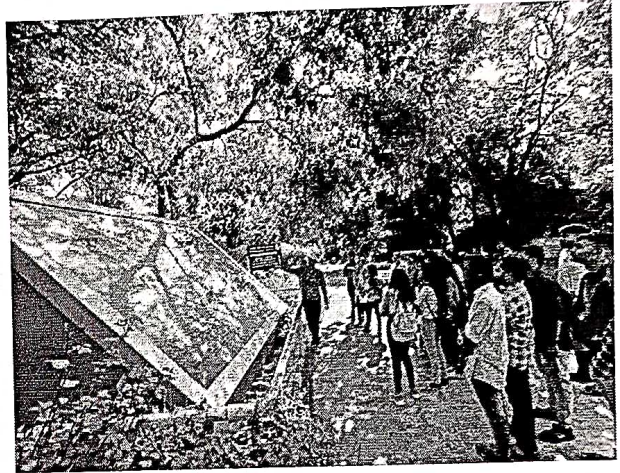
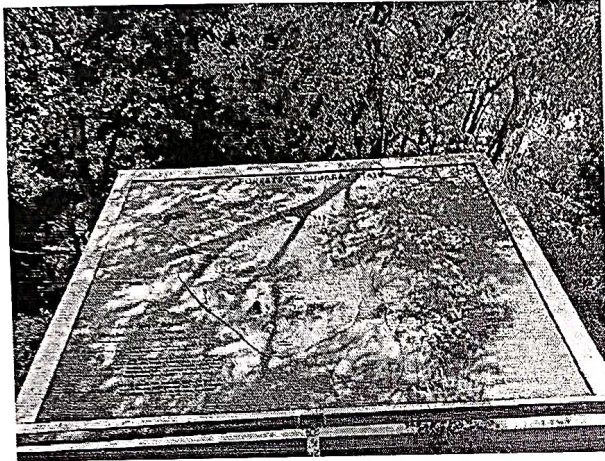


Some name of the Cactus species :-

Fishbone Cactus, Moon Cactus, Blue Barrel Cactus, Christmas Tree Cactus, Cinnamon Cactus, Spurges plant, *Echinopsis multiplex*, *Oputia tuniculata*, *Oputia, cristata*, *Aloe aristata var.*, *Aloe juvenna*, *Ceropegia sp.*, *Hawaethia limipholia*, *Carallumma dummeri*, *Carallumma speciosa*, *Hawarthia attenuate*.



After the thorough visit, one hour lunch break was taken and the whole team had a lunch in open garden along with the enjoyment of nature's beauty.

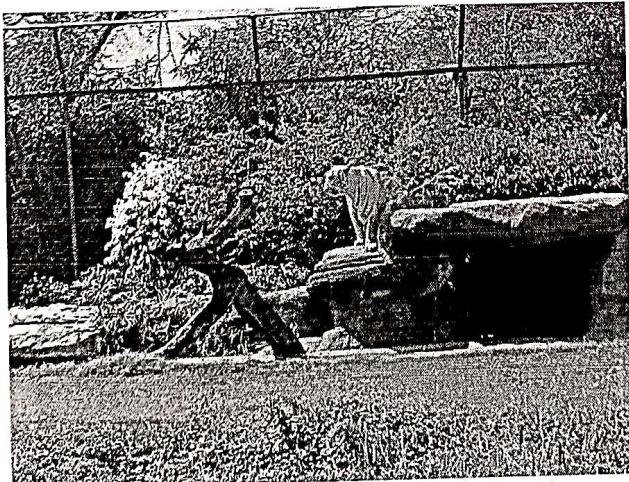


Gujarat Forests Map & Divisions

After than we entered in Zoo section

it will continue to be the part of the INP under the administrative control of the GEER Foundation, Zoo is also under the administration of the Government of Gujarat as a part of an autonomous Foundation.

We can see **Asiatic Lion, Royal Bengal Tiger and Leopard etc.**

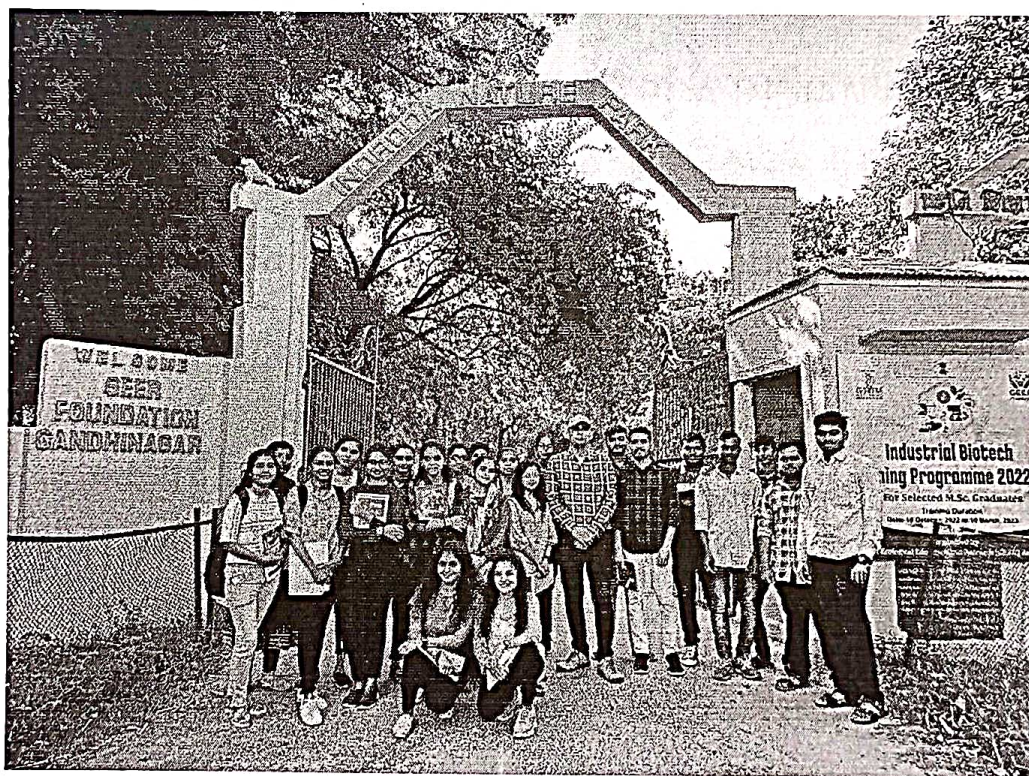


We also see Venomous & Non-Venomous snakes in Snake House

SAW SCALED VIPER, INDIAN ROCK PYTHON, COMMON SAND BOA, BLACK COBRA, RED SAND BOA, INDIAN RAT SNAKE.

And then after At 3:00 O'clock End of tour. We all had safe and enjoyable journey with lots of information.

I thank Dr. Harshad Salvi sir (Professor) and Dr. Amita mam HOD of Botany for their personal concern and which they have guided the work and for their co-operation during the field visit trip.



TEAM BOTANY

Professor incharge

Head of the Department

Ataru
Head
Department of Biology
Gujarat Arts & Science College
Ahmedabad