

Biodiversity Register



Swarnamoyee Jogendranath Mahavidyalaya

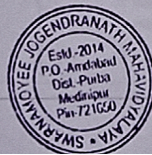
Prepared by Environmental Development Committee in Association with

Botany and Zoology Department

Session: 2021-2022 and 2022-2023






Plants and Fishes Biodiversity Register




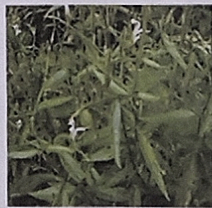
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A. Medicinal Plants

Sl. No.	Local Name	Scientific Name	Family	Habit	No OF Plants	Habitat	Class	Medicinal Value	Image
1	Tulsi	<i>Ocimum sanctum</i> L.	Lamiaceae	Herb	10	Terrestrial	Dicot	Used in Ayurveda for its adaptogenic properties, treats respiratory disorders, etc.	
2	Neem	<i>Azadirachta indica</i> A.Juss.	Meliaceae	Tree	15	Terrestrial	Dicot	Antibacterial, antifungal, antiviral, treats skin disorders, etc.	
3	Nayantara	<i>Catharanthus roseus</i> (L.) G.Don	Apocynaceae	Herb	.	Terrestrial	Dicot	Contains alkaloids used in cancer treatment, antidiabetic properties, etc.	

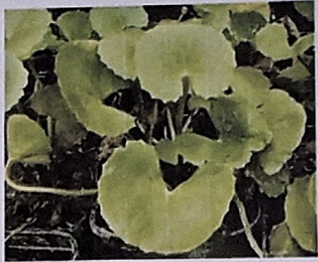


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4	Aloe Vera	<i>Aloe vera</i> (L.) Burm.f.	Asphodelaceae	Succulent	30	Terrestrial	Monocot	Used for its soothing properties, treats burns, skin conditions, etc.	
5	Kalmegh	<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees	Acanthaceae	Herb	.	Terrestrial	Dicot	Immune-boosting, treats fever, liver disorders, etc.	

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6	Thankuni	<i>Centella asiatica</i> (L.) Urb.	Apiaceae	Herb	.	Terrestrial	Dicot	Improves memory, treats skin conditions, etc.	
7	Shiuli	<i>Nyctanthes arbor-tristis</i> L.	Oleaceae	Tree	02	Terrestrial	Dicot	Used in traditional medicine for treating fever, arthritis, etc.	
8	Tej Pata	<i>Cinnamomum tamala</i> (Buch.-Ham.) T.Nees & Eberm.	Lauraceae	Tree	01	Terrestrial	Dicot	Aromatic spice, used in culinary and for digestive disorders	

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9	Dumur	<i>Ficus racemosa</i> L.	Moraceae	Tree	02	Terrestrial	Dicot	Used in Ayurveda for treating digestive disorders, diabetes, etc.	
10	Tentul	<i>Tamarindus indica</i> L.	Fabaceae	Tree	02	Terrestrial	Dicot	Rich in antioxidants, treats digestive issues, etc.	
11	Bel	<i>Aegle marmelos</i> (L.) Corrêa	Rutaceae	Tree	02	Terrestrial	Dicot	Used in Ayurveda for treating digestive disorders, diabetes, etc.	

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12	Pthor kuchi	<i>Bryophyllum pinnatum</i> (Lam.) Oken	Crassulaceae	Succulent	10	Terrestrial	Dicot	Used in traditional medicine for wound healing, kidney stones, etc.	
13	Sushni	<i>Heliotropium indicum</i> L.	Boraginaceae	Herb	.	Terrestrial	Dicot	Used in traditional medicine for skin conditions, fever, etc.	
14	Holud	<i>Curcuma longa</i> L.	Zingiberaceae	Herb	.	Terrestrial	Monocot	Contains curcumin with anti-inflammatory, antioxidant properties, etc.	

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15	Ada	<i>Zingiber officinale</i> Roscoe	Zingiberaceae	Herb	.	Terrestrial	Monocot	Used for its anti-nausea, anti-inflammatory properties, etc.	
16	Bokul	<i>Mimusops elengi</i> L.	Sapotaceae	Tree	01	Terrestrial	Dicot	Astringent, treats dental issues, skin disorders, etc.	
17	Gima	<i>Gliricidia oppositifolia</i> Linn.	Molluginaceae	Shrub	.	Terrestrial	Dicot	Used for its dyeing properties (henna) and in traditional medicine for skin conditions	

18	Bramhi	<i>Bacopa monnieri</i> (L.) Wettst.	Plantaginaceae	Herb	.	Terrestrial	Dicot	Improves memory, cognitive functions, treats anxiety, etc.	
19	Basok	<i>Adhatoda vasica</i> L.	Acanthaceae	Shrub	03	Terrestrial	Dicot	Antibacterial, antifungal, treats, cough, respiratory disorders, etc.	

20	Ulot Kombol	<i>Abroma augusta</i> L.	Malvaceae	Shrub	03	Terrestrial	Dicot	Rich in Vitamin C, antioxidant, anti-inflammatory properties, etc.	
21	Sojne	<i>Moringa oleifera</i> Lam.	Moringaceae	Tree	02	Terrestrial	Dicot	Nutrient-rich, treats malnutrition, inflammation, etc.	
22	Taralota	<i>Mikania micrantha</i> (L.) Kunth ex H.B.K.	Asteraceae	Herb	.	Terrestrial	Dicot	Contains papain enzyme, treats digestive issues, etc.	


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23	Bisolyokoroni	<i>Bacopa monnieri</i> (L.) Wettst.	Plantaginaceae	Herb	02	Terrestrial	Dicot	Improves memory, cognitive functions, treats anxiety, etc.	
24	Kulekhara	<i>Hygrophila auriculata</i> (Schumacher) Heine	Acanthaceae	Herb	.	Marshy Land	Dicot	Used for its anti-nausea, anti-inflammatory properties, etc.	
25	Amlaki	<i>Phyllanthus emblica</i> L.	Phyllanthaceae	Tree	01	Terrestrial	Dicot	Rich in Vitamin C, antioxidant, anti-inflammatory properties, etc.	

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26	Cocksima	<i>Emilia sonchifolia</i> (L.) DC. Ex Wight	Asteraceae	Herb		Terrestrial	dicot	Antimicrobial, Anti-inflammatory, anti-oxidant, wound healing	
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B. Ornamental Plants




Sl. No.	Local Name	Scientific Name	Family	Habit	No Of Plants	Habitat	Class	Economic Value	Image
1	Ganda	<i>Tagetes spp. L.</i>	Asteraceae	Herb		Terrestrial	Dicot	Popular in gardens, used as bedding plants, insect-repellent properties, etc.	
2	Golap	<i>Rosa spp. L.</i>	Rosaceae	Shrub	05	Terrestrial	Dicot	Highly valued for ornamental purposes, cut flowers, perfumes, etc.	
3	Thuja	<i>Thuja spp. L.</i>	Cupressaceae	Tree	01	Terrestrial	Gymnosperm	Commonly used as ornamental trees in landscaping, hedges, etc.	

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4	Kamini	<i>Murraya paniculata (L.) Jack</i>	Rutaceae	Shrub	01	Terrestrial	Dicot	Ornamental shrub with fragrant flowers, used in landscaping, etc.	
5	Korobi	<i>Nerium oleander L.</i>	Apocynaceae	Shrub	02	Terrestrial	Dicot	Popular ornamental plant, toxic if ingested, used in traditional medicine, etc.	
6	Mili	<i>Euphorbia milii Des Moul.</i>	Euphorbiaceae	Succulent	05	Terrestrial	Dicot	Drought-tolerant ornamental, used in xeriscaping, floral arrangements, etc.	

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7	Kagoj Ful	<i>Bougainvillea</i> <i>spp. Comm. ex</i> <i>Juss.</i>	Nyctaginaceae	Vine	05	Terrestrial	Dicot	Beautiful ornamental vine, valued for its colorful bracts, landscaping, etc.	
8	Palas	<i>Beutia</i> <i>monosperma</i> (Lam.) Taub.	Fabaceae	tree	03	Terrestrial	Dicot	Striking ornamental plant, used in tropical gardens, floral arrangements, etc.	
9	Cycas	<i>Cycas spp. L.</i>	Cycadaceae	Shrub	01	Terrestrial	Gymnosper m	Popular ornamental cycad, used in landscaping, indoor decoration, etc.	




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10	Kadam	<i>Neolamarckia cadamba</i> (Roxb.) Bosser	Rubiaceae	Tree	03	Terrestrial	Dicot	Ornamental tree with yellow flowers, timber used for various purposes, etc.	
11	Chandramallika	<i>Chrysanthemum</i> spp. L.	Asteraceae	Herb	.	Terrestrial	Dicot	Popular cut flower, ornamental plant, used in floral arrangements, etc.	
12	Radhachura	<i>Peltophorum pterocarpum</i> (DC.) K. Heyne	Fabaceae	Tree	02	Terrestrial	Dicot	Ornamental tree with yellow flowers, used in urban landscaping, etc.	




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13	Joba	<i>Hibiscus spp. L.</i>	Malvaceae	Shrub	05	Terrestrial	Dicot	Ornamental shrubs, used in cultural worship, valued for their colorful flowers, etc.	
14	Kolaboti	<i>Canna indica L.</i>	Cannaceae	Herb	.	Aquatic	Monocot	Ornamental plant, used in landscaping, pond margins, etc.	
15	Araucaria	<i>Araucaria heterophylla (Salisb.) Franco</i>	Araucariaceae	Tree	01	Terrestrial	Gymnosperm	Popular indoor and outdoor ornamental tree, used in Christmas decorations, etc.	



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16	Rongon	<i>Ixora spp. L.</i>	Rubiaceae	Shrub	02	Terrestrial	Dicot	Ornamental shrubs with colorful flowers, used in landscaping, etc.	
17	Rajanigondha	<i>Polianthes tuberosa L.</i>	Asparagaceae	Herb	05	Terrestrial	Monocot	Valued for its fragrant flowers, used in perfumery, floral arrangements, etc.	
18	Tagar	<i>Tabernaemontana spp. L.</i>	Apocynaceae	Shrub	02	Terrestrial	Dicot	Ornamental shrubs and small trees with fragrant flowers, etc.	




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19	Dopati	<i>Impatiens spp. L.</i>	Balsaminaceae	Herb	.	Terrestrial	Dicot	Popular bedding plants with colorful flowers, used in shaded areas, etc.	
20	Dianthus	<i>Dianthus spp. L.</i>	Caryophyllaceae	Herb	.	Terrestrial	Dicot	Valued for its fragrant flowers, used in floral arrangements, etc.	
21	Portulaca	<i>Portulaca grandiflora Hook.</i>	Portulacaceae	Herb	.	Terrestrial	Dicot	Drought-tolerant ornamental, used in hanging baskets, ground cover, etc.	




22	Hoya	<i>Hoya spp. R.Br.</i>	Apocynaceae	Vine	.	Terrestrial	Dicot	Popular indoor ornamental plant, valued for its waxy flowers, etc.	
23	Ashok	<i>Saraca asoca</i>	Fabaceae	Tree	01	Terrestrial	Dicot	Valued for its ornamental value and cultural significance	




C. Fruit Plants – Attracts to birds and other animals

Serial No.	Common Name	Scientific Name	No. of Plants	Family	Habit	Habitat	Class	Nutritional value	Image
1	Peyara	<i>Psidium guajava L.</i>	06	Myrtaceae	Tree	Terrestrial	Dicot	Rich in Vitamin C, dietary fiber, and various antioxidants. It also contains vitamin A, potassium, and folate.	
2	Pepe	<i>Carica papaya L.</i>	02	Caricaceae	Tree	Terrestrial	Dicot	Excellent source of vitamin C, vitamin A, folate, and dietary fiber. It also contains enzymes such as papain, which aids in digestion.	
3	Taal	<i>Borassus flabellifer L.</i>	10	Arecaceae	Tree	Terrestrial	Monocot	Rich in carbohydrates and vitamins like vitamin C and B-complex. It also contains minerals like potassium, calcium, and magnesium.	

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4	Khejur	<i>Phoenix dactylifera L.</i>	06	Arecaceae	Tree	Terrestrial	Monocot	Dates are high in natural sugars like glucose, fructose, and sucrose, providing instant energy. They also contain vitamins like B-complex and minerals like potassium and magnesium.	
5	Jamrul	<i>Syzygium cumini (L.) Skeels</i>	03	Myrtaceae	Tree	Terrestrial	Dicot	Contains vitamin C, vitamin A, dietary fiber, and various antioxidants. It also contains minerals like potassium, calcium, and iron.	
6	Aam	<i>Mangifera indica L.</i>	10	Anacardiaceae	Tree	Terrestrial	Dicot	High in vitamin C, vitamin A, and dietary fiber. It also contains antioxidants like mangiferin and minerals like potassium.	

7	Bot	<i>Ficus benghalensis</i> L.	02	Moraceae	Tree	Terrestrial	Dicot	Figs are a good source of dietary fiber, vitamins, and minerals including potassium, calcium, magnesium, iron, and zinc.	
8	Kola	<i>Musa spp.</i> L.		Musaceae	Herb	Terrestrial	Monocot	Bananas are rich in carbohydrates, dietary fiber, vitamin C, vitamin B6, and potassium. They are also low in fat and cholesterol.	
9	Tok kul	<i>Ziziphus mauritiana</i> Lam.	02	Rhamnaceae	Shrub	Terrestrial	Dicot	Contains vitamin C, vitamin A, dietary fiber, and antioxidants. It also provides minerals like calcium, iron, and potassium.	




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10	Kathal	<i>Artocarpus heterophyllus Lam.</i>	02	Moraceae	Tree	Terrestrial	Dicot	Rich in carbohydrates, dietary fiber, vitamin C, vitamin A, and various B-complex vitamins. It also contains minerals like potassium and magnesium.	
11	Kamranga	<i>Averrhoa carambola L.</i>	02	Oxalidaceae	Tree	Terrestrial	Dicot	Good source of vitamin C, dietary fiber, and antioxidants. It also contains minerals like potassium and calcium.	
12	Dalim	<i>Punica granatum</i>	01	Lythraceae	Shrub	Terrestrial	Dicot	Produces pomegranate fruits, valued for their taste and health benefits	

D. Timber Plant



Serial No.	Local Nme	Scientific Name	No. of Plants	Family	Habit	Habitat	Class	Importance	Image
1	Bador lathi	<i>Cassia fistula</i> L.	01	Fabaceae	Tree	Terrestrial	Dicot	Used for high-quality timber, especially in furniture making and construction	
2	Mehogini	<i>Swietenia macrophylla</i> King	01	Meliaceae	Tree	Terrestrial	Dicot	Highly valued for its timber, known as mahogany, used in furniture and boat building	
3	Tetla shirish	<i>Albizia lebbbeck</i> (L.) Benih	01	Fabaceae	Tree	Terrestrial	Dicot	Valued for its durable timber, used in furniture, construction, and boat building	

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4	Shirish	<i>Samanea saman</i> (Jacq.) Merr.	01	Fabaceae	Tree	Terrestrial	Dicot	Known for its wide canopy and timber, used in furniture and as shade trees	
5	Akashmoni	<i>Acacia auriculiformis</i> A.Cunn. ex Benth	400	Fabaceae	Tree	Terrestrial	Dicot	Fast-growing timber species, used in paper production, furniture, and construction	
6	Segoon	<i>Tectona grandis</i> L.f.	02	Lamiaceae	Tree	Terrestrial	Dicot	Highly prized for its teakwood, used in shipbuilding, furniture, and outdoor construction	

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7	Eucalyptus	<i>Eucalyptus spp.</i>	02	Myrtaceae	Tree	Terrestrial	Dicot	Valued for its timber used in construction and paper production	
8	Babla	<i>Acacia nilotica</i>	03	Fabaceae	Tree	Terrestrial	Dicot	oral & dental hygiene, burn injuries and in the management of skin diseases as recommended by Indian Ayurveda.	

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E. Other Plants

Serial No.	Common Name	Scientific Name	No. of Plants	Family	Habit	Habitat	Class	Importance	Image
1	Narkel	<i>Cocos nucifera</i>	20	Arecaceae	Tree	Terrestrial	Monocot	Provides coconut fruit, water, oil, and other products	
2	Apong	<i>Arva aspera</i>	.	Asteraceae	Herb	Terrestrial	Dicot	Edible leaves, used in traditional medicine	
3	Sonchus	<i>Sonchus spp.</i>	.	Asteraceae	Herb	Terrestrial	Dicot	Edible leaves, used in salads and traditional medicine	

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4	Durba	<i>Cynodon dactylon</i>	.	Poaceae	Herb	Terrestrial	Monocot	Commonly known as Bermuda grass, used for grazing and lawns	
5	Ghentu	<i>Clerodendrum spp.</i>	.	Lamiaceae	Shrub	Terrestrial	Dicot	Ornamental plants, valued for their flowers and foliage	
6	Mutha	<i>Cyperus spp.</i>	.	Cyperaceae	Herb	Terrestrial	Monocot	Commonly known as sedges, used in landscaping and crafts	







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7	Petari	<i>Abutilon indicum</i>		Malvaceae	Shrub	Terrestrial	Dicot	Medicinal plant, used in traditional medicine for various ailments	
8	Pteris	<i>Pteris spp.</i>		Pteridaceae	Fern	Terrestrial	Pteridophyta	Commonly used in landscaping and indoor decoration	
9	Dryopteris	<i>Dryopteris spp.</i>		Dryopteridaceae	Fern	Terrestrial	Pteridophyta	Some species used in landscaping and ornamental gardens	
10	Bamboo	<i>Bambusa tulda</i>		Poaceae	Shrub	Terrestrial	Monocot	Used in construction, crafts, and as a renewable resource	

Various Types of Fishes in College Pond




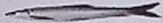

Local Name	Scientific Name	Phylum	Class	Image	Economic Importance
Grass carp	<i>Ctenopharyngodon idella</i>	Chordata	Osteichthyes		Ctenopharyngodon is cultured in fresh water pond along with our major carps. They control the unwanted aquatic weed of pond.
Silver carp	<i>Hypophthalmichthys molitrix</i>	Chordata	Osteichthyes		Cultured along with major carp. It is a good fish food and it clears the unwanted aquatic weeds from the ponds.
Puti	<i>Puntius ticto</i>	Chordata	Osteichthyes		Various species of puntius are taken as food fish but have less commercial value.
Bata	<i>Labeo bata</i>	Chordata	Osteichthyes		Labeo bata is regarded as food fish but has less commercial value.
Lata	<i>Channa punctatus</i>	Chordata	Osteichthyes		Useful as food .
Shol	<i>Channa striatus</i>	Chordata	Osteichthyes		Useful as food .

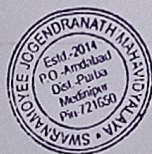
Local Name	Scientific Name	Phylum	Class	Image	Economic Importance
Singhi	<u>Heteropneustes fossilis</u>	Chordata	Osteichthyes		Heteropneustes is popular as food. They are Considered to have medicinal value and provide nutritious food particularly to the children and sick persons.
Magur	<u>Clarias batrachus</u>	Chordata	Osteichthyes		Clarias is popular as food. They are Considered to have medicinal value and provide nutritious food particularly to the children and sick persons.
Tangra	<u>Mystus vitatus</u>	Chordata	Osteichthyes		Mystus is regarded as food fish.
Koi	<u>Anabas testudineus</u>	Chordata	Osteichthyes		Anabas is regarded as food fish.
Tilapia	<u>Oreochromis mossambicus</u>	Chordata	Osteichthyes		Food fish and a valuable source of protein can be used to control mosquito.

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Local Name	Scientific Name	Phylum	Class	Image	Economic Importance
1. carp	<i>Labeo rohita</i>	Chordata	Osteichthyes		Labeo has a great food value. They are consumed as food fish all over India and hence are of high commercial value.
2. Catla	<i>Catla Catla</i>	Chordata	Osteichthyes		Catla is cultured and used as food fish all over India. Catla is the largest and fastest growing carp.
3. carp	<i>Labeo Calbasu</i>	Chordata	Osteichthyes		Calbasu is cultured as food fish and has thus commercial value.
4. Mrigala	<i>Cirrhinus mrigala</i>	Chordata	Osteichthyes		Cirrhinus is cultivated by pond culturists together with Labeo and catla. They attain a good size and used as food fish hence of commercial value.
5. American rohu	<i>Cyprinus carpio</i>	Chordata	Osteichthyes		Cyprinus is cultured in fresh water found along with our major carps. It is a food fish.



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