



Boutonniere

P. G. Department of Botany

St. Thomas College, Bhilai

Plants and Camouflage

Vinita Thomas
HOD, P. G. Department of Botany



It is clear that plants do more than entice pollinators and photosynthesis with their colours- they hide from enemies too.

~Professor Martin Stevens
Centre for Ecology & Conservation, Cornwall



Masquerade: looking like something else; usually something a predator might ignore, such a stone or twig.

Decoration: accumulating material from the environment.

For example: Corydalis hemidicentra: a plant whose leaves match the colour of rocks where it grows.



Unlike animals, plants may be limited in their use of camouflage by the fact that chlorophyll which they need to live via photosynthesis -- is green. As a result, it may sometimes be a disadvantage to a plant to be any other colour -- meaning their camouflage comes at a cost. It seems that plants like these know how to make the right colours by mixing a few types of pigments. Those individuals with worse colour matching might have higher risk of being eaten. Plants give us a fascinating parallel way of understanding how evolution works.

Excerpts: "Plant camouflage: ecology, evolution, and implications." Trends in Ecology and Evolution.

Tree Types of People

Joel Mathew
MSc Final Botany

Along our journeys, we encounter all types of souls from all walks of life that help us in this world. No matter the nature of your relationships with people, they all serve a unique purpose that can help you become the best version of yourself, and discover new things about the world around you. There three types of people will help you grow and get there.

Leaf People

Some people come into your life as leaves on a tree. They are only there for a season. You cannot depend on them as they are weak and only there to give you shade. Like leaves, they are there to take what they need and as soon as winds blow in your life they are gone. You can't be angry at them, it's just who they are.

Branch People

There are some people who come into your life as branches on trees.

They are stronger than leaves, but you have to be careful with them. They will stick around through most seasons but when a storm comes to your life they break away. In most cases they can't handle too much of weight on them. But again you can't be angry with them, it's just who they are.

Root People

If you have people like roots of a tree, then you have found something special. Like roots they are hard to find as they do not come into the limelight. Their only job is to hold you up, help you live healthy and strong life. They stay low key and don't let the world know that they are there. If you go through any... Storm, they well hold you up. Their job is to hold you, nourish you support you.

Just as a tree has many leaves and branches, there are few roots. Look at your life. How many leaves branches and roots do you have? What are you in other people lives?

Let's Think & Live Accordingly.....



The Nature is our silent friend and family. It protects us if we protect it.

~Mukeshwari Sahu, MSc Previous Botany



Nature is man's teacher, she unfolds her treasure to his search, unseals his eyes, illumines his mind and purifies his heart; an influence breaths from all the sights and sounds of her existence.

~Alfred Billings Street



In nature, every advantage increases an animal's chances of survival. This simple fact has caused animal species to evolve a number of special adaptations that help them find food and keep them from becoming food. One of the most widespread and varied adaptations is natural camouflage, an animal's ability to hide itself from predator and prey. A new study shows that plants use a host of techniques long known to be used by animals. These include

Background matching: blending with the colours of shapes of the habitat where they live.

Disruptive coloration: markings that create the appearance of false edges and boundaries, making it harder to see the true outline.

When I am among the trees by Mary Oliver

When I am among the trees,
Specially the willows and the
honey locust,
Equally the beech the oaks and
the pines,
They give off such hints of
gladness,
I would almost say that they
save me and daily.

world,
But walk slowly and bow often.
Around me the trees stir in their
leaves
And call out "stay a while",
The light flows from their
branches.
And they call again "its Simple",
they say,
"And you to have come
Into the world to do this, to go
easy, to be filled
With light, and to Shine."

I am so distant from the hope of
myself,
In which I have goodness, and
discernment,
And never hurry through the

My Parents My Strength

HM Kreations

The poem The Oak Tree by Johnny Ray Rider Junior gives a cue that we are stronger than we think. I am so blessed to have parents who gave me strong roots. So let's take a look at the poem The Oak Tree

A mighty wind blew night and
day
It stole the oak tree's leaves
away
Then snapped its boughs and
pulled its bark
Until the oak was tired and stark

Can break each branch of mine
in two
Carry every leaf away
Shake my limbs, and make me
sway
But I have roots stretched in the
earth
Growing stronger since my birth
You'll never touch them, for you
see
They are the deepest part of me

But still the oak tree held its
ground
While other trees fell all around
The weary wind gave up and
spoke.
How can you still be standing
Oak?
The oak tree said, I know that
you
I'm stronger than I ever knew

Until today, I wasn't sure
of just how much I could endure
But now I've found, with thanks
to you

Like a lotus flower we too have the ability to rise from the mud bloom out of the darkness and radiant into the world.

Manisha Kosam - MSc Previous Botany

जीवन का आधार "वृक्ष"

Sandeep Shivare
M.Sc. Botany I sem

जीवन का आधार "वृक्ष"
जीवन का आधार वृक्ष है,
धरती का श्रृंगार वृक्ष है,
प्राण वायु के रही सभी को,
ऐसे परम उदार वृक्ष हैं,
ईश्वर के अनुदान वृक्ष हैं,
फल-फूलों की खान वृक्ष है।

मूल्यवान औशधियां देते,
ऐसे दिव्य महान वृक्ष हैं।
छेते शिल्ल छंभ वृक्ष हैं,
श्रोके थकते पाँव वृक्ष हैं।

लाखों जीव बसेरा करते,
जैसे सुंदर गांव वृक्ष हैं।
जन-जीवन के साथ वृक्ष हैं,
खुशियों की बारात वृक्ष है।

योगदान इस धरती पर,
ले आते वरदान वृक्ष हैं।
जीव-जगत की भूख मिटाते,
ये सुंदर फलदार वृक्ष हैं।

जीवन का आधार वृक्ष है,
धरती का श्रृंगार वृक्ष है।

वे मेरा आँगन सुनहरा

Annpurna Soni
M.Sc. Botany I sem

वे मेरा आँगन सुनहरा,
अम्मा बोली ये घर नहीं तेरा,
तुम्हे जाना है पराए घर,
सुन कर रोया था,
मेरा आँगन सुनहरा।

बिदा हुई थी जब उस आँगन से,
खुशियों में थी तन्हा,
बिछड़ गया था, मेरा आँगन सुनहरा।

नये सवरे मिला नया आँगन,
मैं खुश हुई, लगा,
ये मेरा घर आँगन,
खुशी में बीत गये दिन चार।

नये सवरे आँगन में छाई खुशी नई,
चह थी बेटे की, पर आई नन्ही परी,
दिया आदेश अम्मा ने,
निकल जा ले कर बोझ।

सुन कर गिरी आँगन में,
मिल कर मैं उस आँगन में,
हो गया था मेरा आँगन,
मिल गई थी मैं उस आँगन में।

वे मेरा आँगन सुनहरा,
फिर भी न जाने क्यों ?
रोया था.....
मेरा आँगन सुनहरा।

इंसान हार नहीं मानता

Jyoti Sahu
M.Sc. Botany I sem

इंसान किसी से हार नहीं मानता,
क्योंकि उसके पास एक हथियार है,
चलते रहने का हथियार।

इसी हथियार के सहारे,
वह अतीत को पीठ पर लादे,
भविष्य को बांहों में उठाए,

अनादि काल से अपनी,
उलझनों से लड रहा है।

और तय कर रहा है, कल से कल तक का
सफर, भले ही पसीने और आँसुओं से लथपथ,
जीवन का पथ अग्निपथ में तब्दील हो जाए,
लेकिन इंसान नहीं रुकता, वह चलता रहता है।

पेंड ना कोई काट पाए, जंगल अब न घटने पाए, मिलकर हम सब
कसम ये खाएँ, आओ मिलकर पेड लगाएँ।

Pratibha Nagesh - MSc Previous Botany

Signs and Symptoms

Mamta Dhruve
MSc Previous Botany

Each mental illness has its own characteristic symptoms.
However, there are some general warning signs that might alert
you that someone needs professional help.

Some of these signs include

- ✘ Marked personality change
- ✘ Inability to cope with problems and daily activities
- ✘ Strange grandiose ideas
- ✘ Excessive anxiety and anger
- ✘ Hostility or violent behavior
- ✘ Prolonged depression and apathy
- ✘ Marked changes in eating and sleeping patterns
- ✘ Thinking or talking about suicide
- ✘ Extreme mood swings
- ✘ Abuse of alcohol and drugs

A person who shows any of these signs needs help from a
qualified health professional.



जीवन कर्म : एक चिंतन

Reshama Chauhan
MSc. Final Botany

जीवन में सारे धर्म और कर्म की उपासना हमें एक लक्ष्य की ओर ले जाती है। यह चरम लक्ष्य क्या है? मुक्ति। जी हों
जिसके लिए आज सभी संघर्षरत हैं। परमाणु से लेकर मनुष्य तक, जडतत्व से अचेतन प्राणहीन कण से लेकर इस
पृथ्वी की सर्वोच्च सत्ता मानवात्मा तक, जो कुछ हम इस विश्व में देखते हैं, वे सभी मुक्ति के लिए ही संघर्ष कर रहे
हैं। चेतन-अचेतन सारी प्रकृति का लक्ष्य मुक्ति ही है। जाने-अनजाने सारा जगत इसी लक्ष्य की ओर पहुंचने का यत्न
कर रहा है।

निःस्वार्थ कर्म से मानव जीवन के चरम लक्ष्य, इस मुक्ति को प्राप्त कर लेना ही कर्मयोग है। अतएव हमारा
प्रत्येक स्वार्थपूर्ण कार्य अपने इस लक्ष्य तक पहुंचने में बाधक होता है तथा प्रत्येक निःस्वार्थ कर्म हमें उसकी ओर आगे
बढाता है। इसलिए नैतिकता की यह भी एक परिभाषा हो सकती है कि 'जो स्वार्थी है, वह 'नैतिक' है और जो
निःस्वार्थी है, वह 'नैतिक' है।

नितिशास्त्र के अनुसार जीवन यापन का विचार करना मानव जीवन के उत्कर्ष एवं अभ्युदय का आधार है।
विचार एक संसाधन है, जिसे नियंत्रित, संयमित एवं उपयोगी बनाकर जीवन में चमत्कारी परिवर्तन एवं आश्चर्यजनक
परिणाम उत्पन्न किए जा सकते हैं। जो इनके प्रभाव-परिणाम से परिचित होते हैं, वे इनका उपयोग कर असम्भव
चुनौतिपूर्ण कार्यों को भी सम्भव और सरल बना लेते हैं, परंतु विचारशक्ति की महिमा से अपरिचित अनभिज्ञ व्यक्तियों
को हेय एवं उपेक्षित जीवन जीने के लिए विवश होना पडता है।

सकारात्मक विचारों के चिंतन-मन्थन हेतु मस्तिष्क को प्रशिक्षित करें। नकारात्मक चिंतन अवनति एवं पतन
के मार्ग पर ले जाते हैं, इसलिए उस चिंतन से सदा दूर रहें। इसके लिए सबसे अच्छा उपाय है कि आप स्वयं से पूछें कि
जो विचार आपमें उठ रहा है, क्या वह आपको अभीष्ट लक्ष्य तक पहुंचा सकता है? यदि आपको लगता है कि नहीं
पहुंचा सकता, तो समझ लीजिए कि आप समय एवं उर्जा को व्यर्थ गँवा रहे हैं और सही दिशा में लग जाइए। हमें सदैव
श्रेष्ठ, शुभ, मंगलमय चिंतन करना चाहिए, जिससे व्यक्तित्व निखर उठे और सुवासित हो।