

12 FRIDAY

November '21

Week-46 (316-049)

eg- Poaceae, Euphorbiaceae.

→ family have suffix 'aceae'

iv) Order → The category includes one or more related families. Thus the family Solanaceae is placed in the order Polemoniales along with four other related families.

eg → Polemoniales.

→ Order have suffix 'ales'

v) Class :- A class is made of one or more related orders. For eg- the class Dicotyledoneae (dicotyledonae, dicotyledon) of flowering plants contains all dicots which are grouped into several orders.

eg → ~~Dicotyledonae~~ Dicotyledoneae.

→ class have suffix 'ae'.

vi) Division / phylum :- It is a category higher than that of class. The term phylum is used for animals while division is used for plants.

November '21

Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27

NOTES

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Kingdom - It is the highest taxonomic category. All plants are included in kingdom plantae while all animals belong to kingdom animalae.

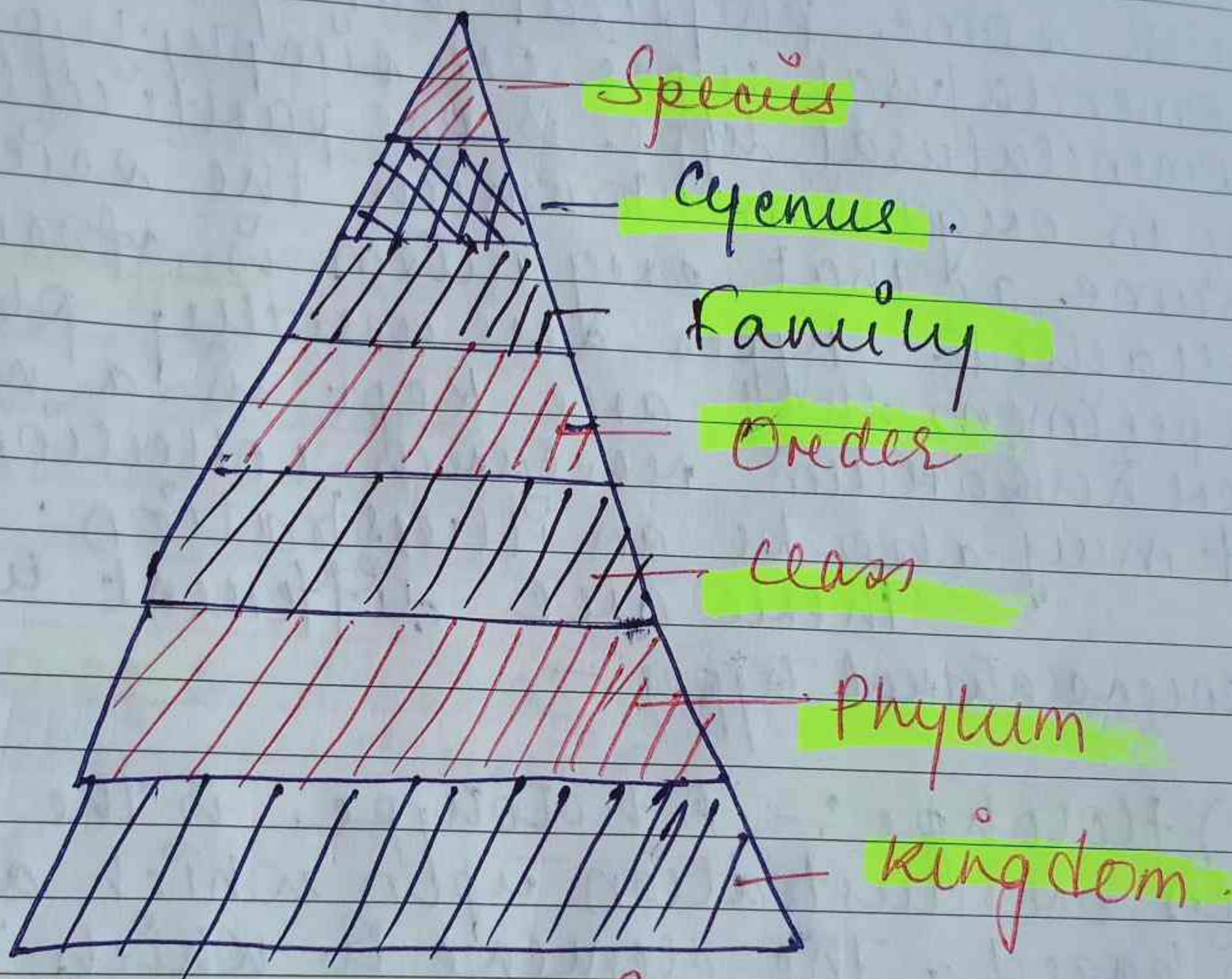


Fig - Taxonomic hierarchy

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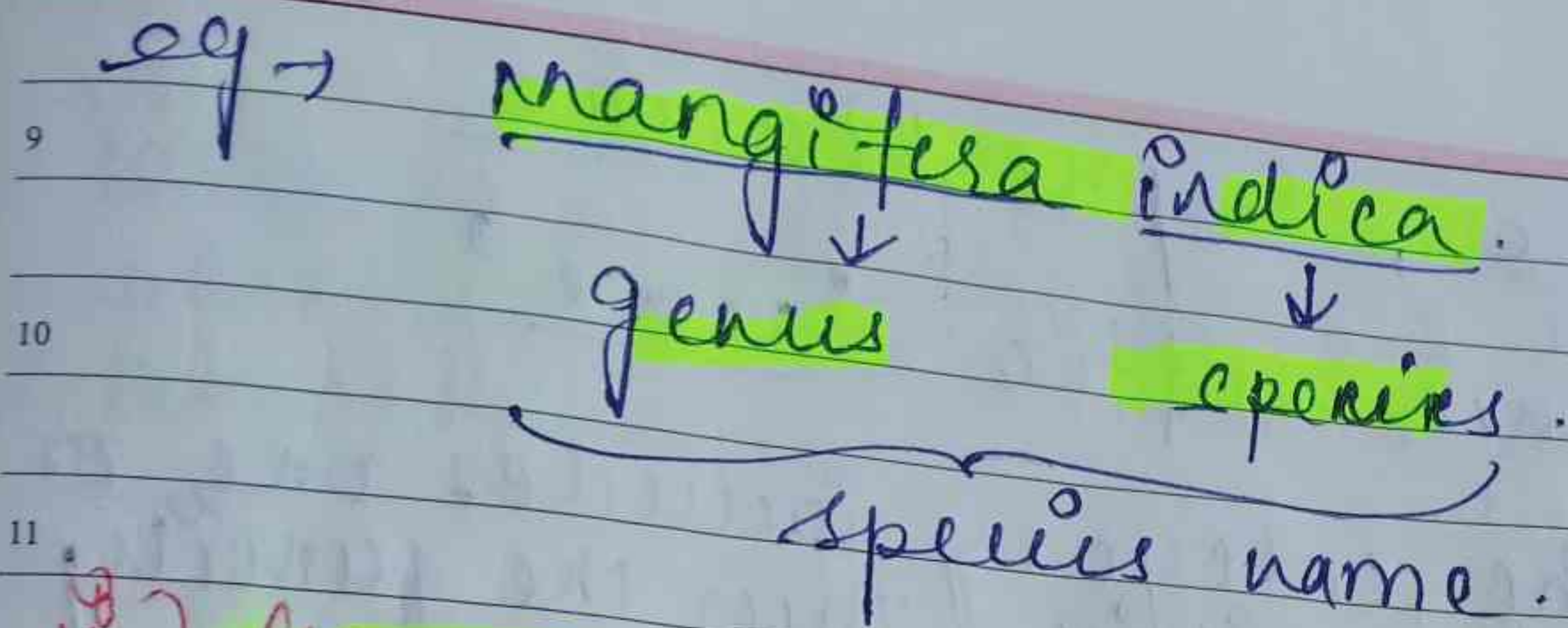
december '21

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

November '21

Week-46 (315-050)

THURSDAY 11



ii) Genus :- It is a group or assemblage of related species which resemble one another in certain correlated characters. Unrelated characters and those similar are common features which are used in delimitation of a taxon above the rank of species. It is not essential for a genus to have several species. There are genera which have only one species. They are called **monotypic**. Others with many species are called **polytypic**.

eg - Solanum nigrum

↓ ↓

genus species

iii) Family :- It is taxonomic category which contains one or more related genera. All the genera of a family have some common features or correlated characters. They are separable from genera of a related family by important and characteristic differences in both vegetative and reproductive features.

NOTES

December '21

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
			5	6	7	8
			9	10	11	12
			13	14	15	16
			17	18	19	20
			21	22	23	24
			25	26	27	28
			29	30	31	

I am a slow walker, but I never walk back. - Abraham Lincoln

→ Taxonomic hierarchy is the process of arranging various organisms into successive levels of the biological classification either in a decreasing or an increasing order from kingdom to species and vice-versa. Each of this level of the hierarchy is called the taxonomic category or rank.

→ Taxonomic categories :- classification is a process in which closely resembling organisms are placed in a group. The groups which have similarities are placed into larger groups. The various grouping level or rank of classification are known as taxonomic categories.

There are 7 taxonomic categories of organisms :-

- i) Species
- ii) Genus
- iii) Family
- iv) Order
- v) Class
- vi) Division / phylum
- vii) Kingdom.

→ Species :- Species is a natural population of individuals or group of population which resembles one another in an essential morphological and reproductive characters so that they are able to interbreed freely and produce fertile offspring.

november '21

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

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