

Agronomy Sample Notes for IBPS AFO Mains & Interview Course By agriguru.in



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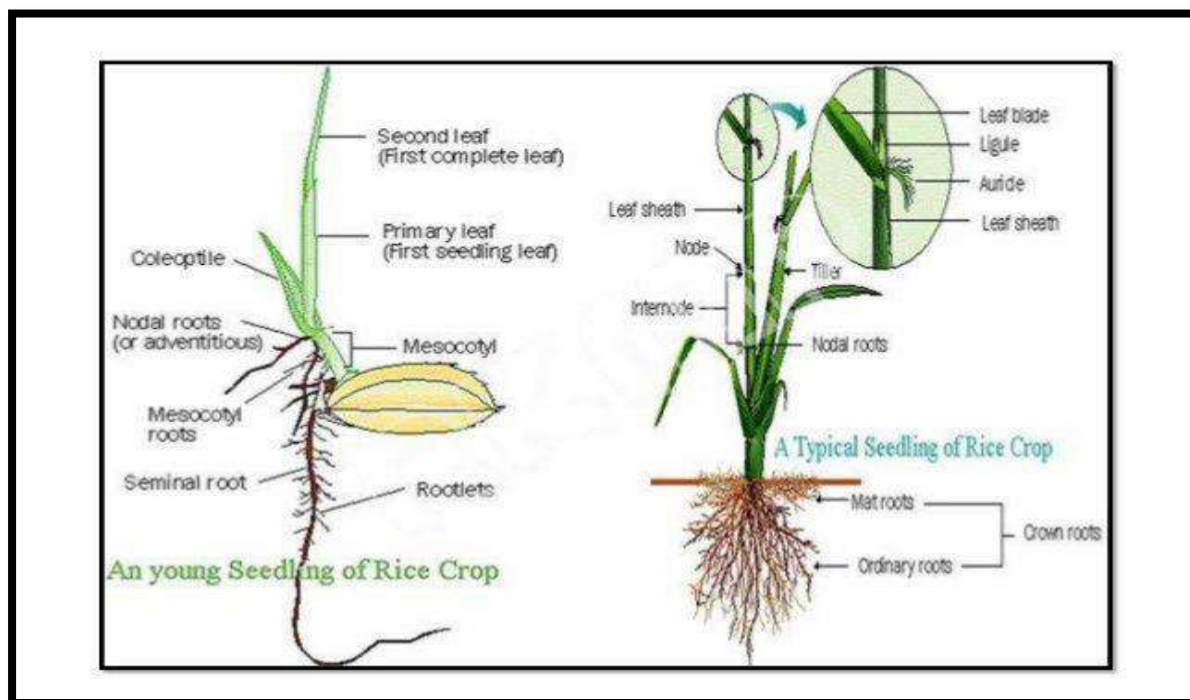
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Rice

Botanical name	<i>Oryza sativa</i>
Family	Gramineae
Chromosome no	2n= 24
Origin	South East Asia
Rice stem is called	Culm.
Mat type nursery is related to	Paddy
The rice inflorescence known as.	Panicle
Fruit type is	Caryopsis
Germination type	Hypogeal
Hulling percent in rice is	66%or 2/3 of paddy
Seed multiplication ratio for paddy is	For varieties- 1:80 For hybrid- 1:100
Test weight (wt. of 1000 grains) is	25g
Test weight of Basmati Rice is	21g

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Wheat “king of cereals”

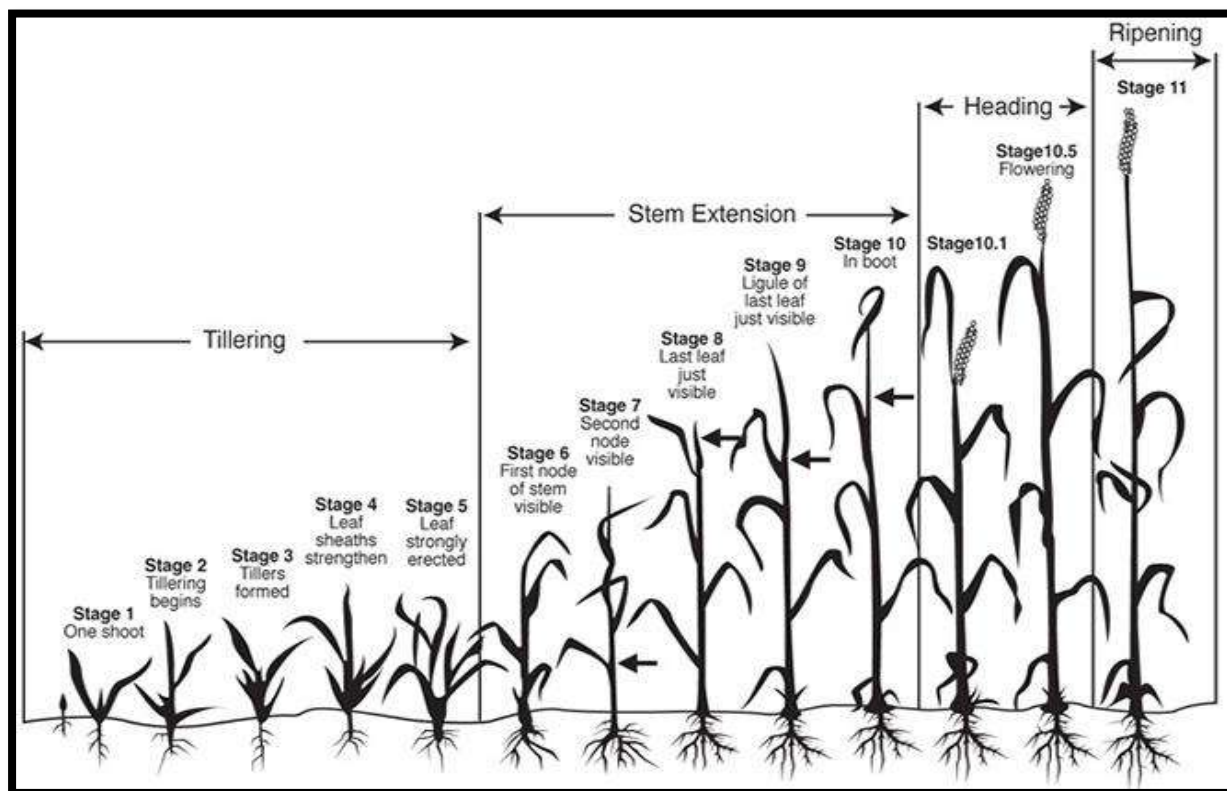
Botanical name	<i>Triticum spp</i>
Family	Poaceae

Wheat is the largest staple food crop of world.

India stands 2nd position in production of wheat after China.

Generally, wheat is a self-pollinated, C₃ and hexaploid plant.

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Triticum spp:

<i>T. aestivum</i>	2n= 42	Mexican dwarf wheat, everywhere grown, evolved by Dr. N.E. Borlaug of Mexico, covered 87 per cent of total wheat area
<i>T. vulgare</i>	2n= 42	Tall wheat for Rainfed condition, typical wheat for alluvial soil.

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BARLEY (*Hordeum vulgare*)



BARLEY
Family

Hordeum vulgare
Poaceae

Classification of varietal groups of barley:

- ***H. Vulgare*: It is six -rowed barley**
- **All the three spikelets are fertile.**
- **Spikelets in six distinct rows are arranged at a uniform distance around the rachis.**
- **Lemma of all the florets are awned or hooded**
- **This group is most commonly cultivated in India.**

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H. Irregulare:

- ✓ In this group ear may be six -rowed and two -rowed.
- ✓ Lemma does not bear awns or hoods.

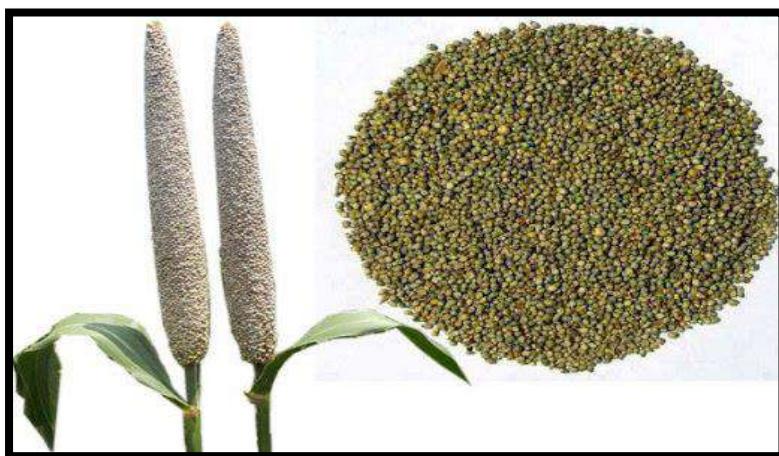


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Pearl Millet (Bajra)

Botanical name	<i>Pennisetum glaucum</i>
Family	Poaceae/ Gramineae
Chromosome no	2n=14
Origin	Africa



Out of 32 species only two are known outside

***P. glaucum* – Pearl millet**

***P. purpureum* - Elephant grass – for fodder**

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Maize- Queen of cereals

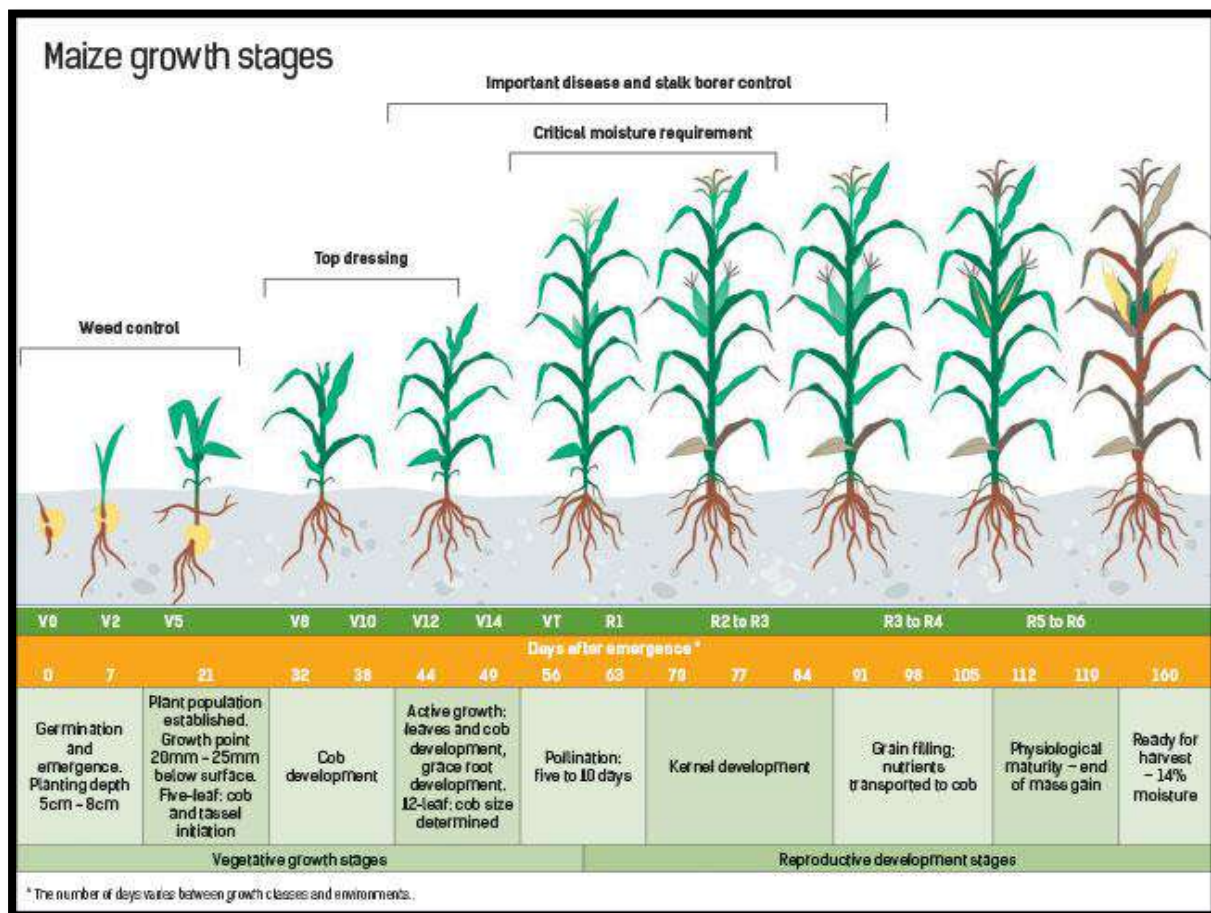


Botanical name	<i>Zea mays</i>
Family	Poaceae
Chromosome no	2n=20

**CLASSIFICATION OF MAIZE TYPES ON THE BASIS
OF ENDOSPERM CHARACTERS:**

Dent corn	<i>Zea mays indentata</i>	The kernel of the dent corn appears like a tooth so named as dent corn, extensively grown in the USA.
Flint corn	<i>Zea mays indurata</i>	Its kernel is hard and smooth, commonly cultivated in India.

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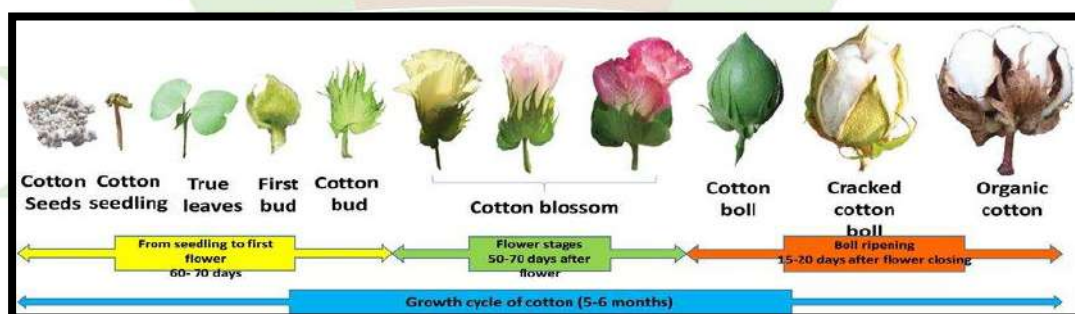
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Fibre crops: -Cotton

- White gold of America
- King of appraisal fibre



Botanical Name	<i>Gossypium spp.</i>
Family	Malvaceae
Origin	India



- *Bt (Bacillus thuringiensis)* cotton is effective against boll worm pest complex of cotton.
- Cotton length is measured by Arealometer.
- Critical stage of Irrigation: Boll formation, Flowering,

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Sugarcane: *Saccharum spp.*

Sugarcane (*Saccharum officinarum*)
***Saccharum officinarum* is known as Noble cane.**

In India great research on hybridization of cane is done by T.S. Venkataraman hence he known as sugarcane wizard.

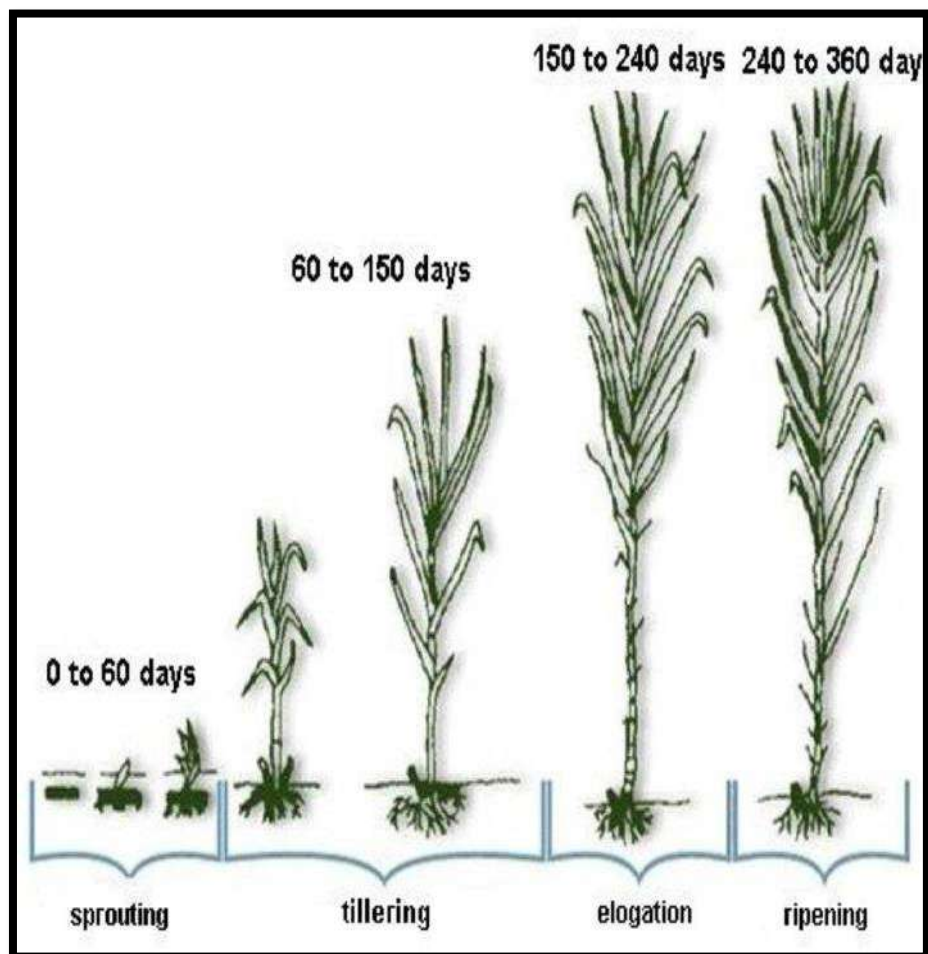
The word “*Saccharum*” derived from Sanskrit word ‘sarkara’ which means sugar.



Botany

- ✓ **Family: Gramineae (poaceae).**
 $2n=80$, perennial plant.
- ✓ **Inflorescence of sugarcane known as Arrow which is an open branched panicle.**

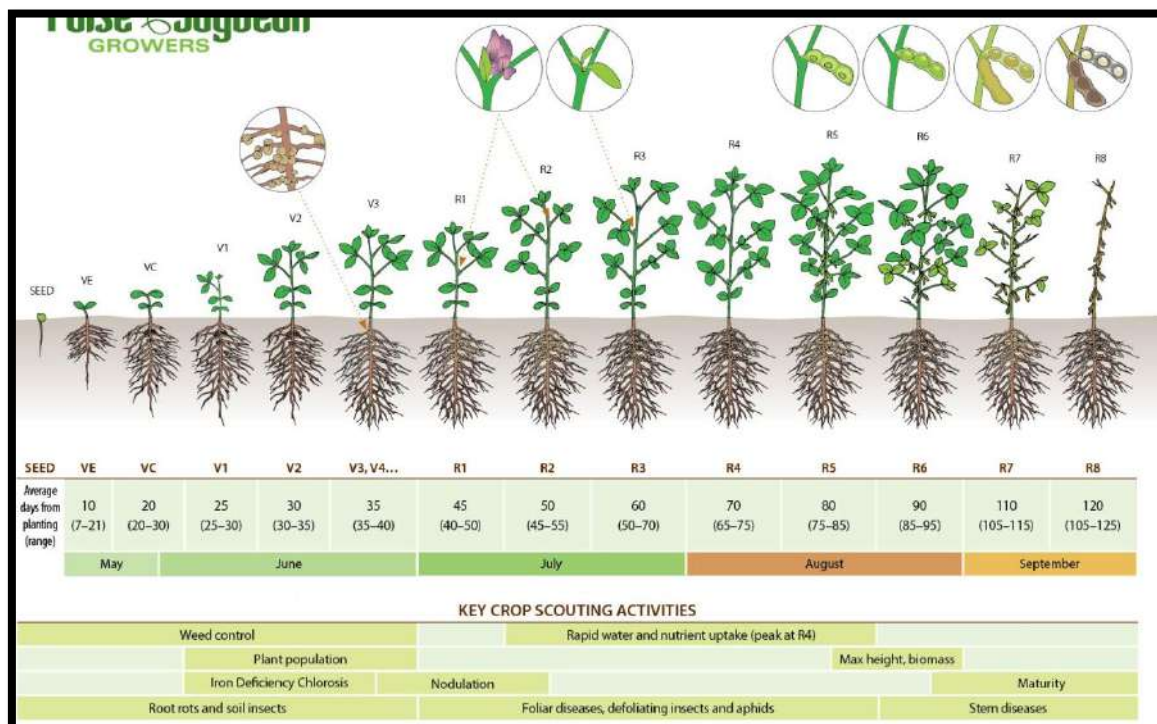
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Soybean ("Boneless Meat")

Botanical name	<i>Glycine max</i>
Family	Leguminosae
Origin	Eastern Asia or China

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It is also known as wonder crop or yellow jewel.

Inflorescence: Raceme

Fruit: Pod

Soybean is C₃ and short-day plant.

Soybean contain 42 % protein and 20 % oil.

Germination type: Epigeal

Germination type: Epigeal

Seed rate & Spacing:

✓ **Common: 70-80 kg/ha.**

• **Spacing: 30x10cm**

✓ **Sowing time: Sowing time is 3rd week of June to 1st fortnight of July.**

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- Nodule formation by *Rhizobium japonicum*.
- Pod formation stage is ideal to harvest for fodder purpose.

