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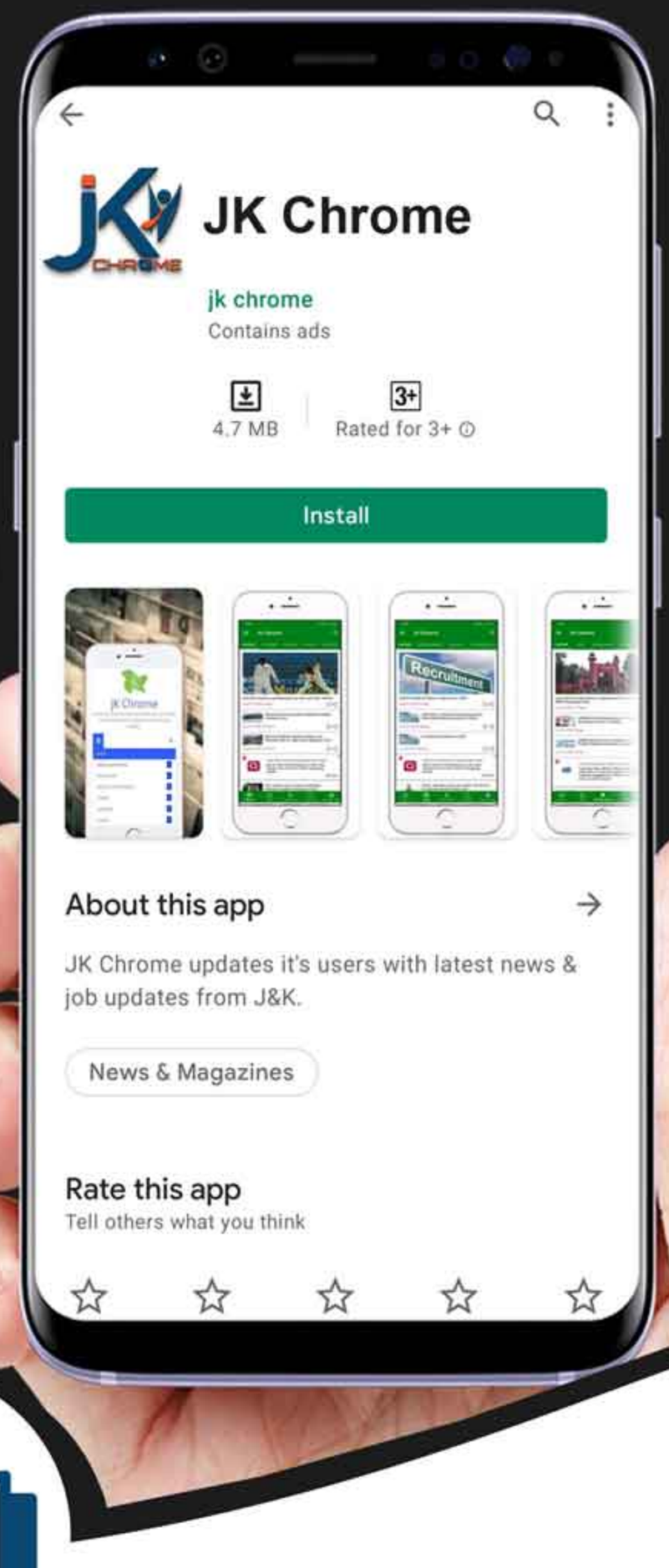

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Plant Hormones

Following five hormones are found in plants –

1. Auxins : Auxins was discovered by Darwin in the year 1880.

This is the hormone which controls the growth of plants.

Its formation takes place in the apex parts of the plants.

Its main functions are —

(i) It prevents the separation of the leaves.

(ii) It destroys the straws.

(iii) It saves the crops from falling.

2. Gibberellins : It was discovered by a Japanese scientist Kurosava in the year 1926.

Functions :

(i) It turns the dwarf plants into long plants. It helps in creating flowering.

(ii) It hep in breaking the dormancy of plant.

(iii) It motivates the seeds to be sprout.

(iv) It increases the activity of cambium in the wooden plants.

(v) Large sized fruits and flowers can be produced by its scattering.

3. Cytokinins : It was discovered by z in the year 1955 but it was named by Lethem.

Functions :

(i) It naturally works in coordination with auxins.

(ii) It help in cell division and development in the presence of auxins.

(iii) It help in breaking the dormancy of seed.

(iv) It is helpful in making RNA and protein.

4. Abscisic Acid or ABA : This hormone was initially discovered by Carnes and Adicote and later on by Waring.

Functions :

(i) This hormone is against the growth.

(ii) It keeps the seeds & bud in dormant condition.

(iii) It plays main role in separation of leaves.

(iv) It delays in flowering of long day plant.

5. Ethylene: This is the only hormone which is found in gaseous form. Functions:

(i) It helps in the ripening the fruits.

(ii) It increases the number of female flowers.

(iii) It motivates the separation of leaves, flowers and fruits.

6. Florigens : It is formed in leaves but helps in blooming of the flowers. Therefore, it is also called flowering hormones.

7. Traumatic : This is a type of dicarboxylic acid. It is formed in injured cells by which the injury of plants is healed.