

3. SCIENCE OF PLANTS

1 × 2 = 2 Marks

ROOT POINTS

1. The **Science of Plants** is called **Botany**.
2. **Aristotle** developed Botany into a science.
3. During 1300 B.C. Parasara described several medicinal plants in his book Vrikshayurveda.
4. **Father of Botany: Theophrastus**. The book written by him is **deHistoria Plantarum**. [IPE]
5. The period of 16th and 17th centuries is regarded as the period of **herbalists**.
6. **Robert Hooke** discovered the cell. The book written by him is **Micro graphia**. [IPE]
7. A considerable progress in Botany was due to two hybridization experiments on Peaplants by **Gregor Johann Mendel (Father of Genetics)**. [IPE]
8. During the 20th century rapid development took place with the discovery of **mutations** by Hugo devries, double helical structure of **DNA by Watson and Crick** etc.,
9. Indian Scientist V.S.Rama Das made his contribution to **C₄- photosynthesis**.
10. P.K.K.Nair and C.G.K.Ramanujan developed the science of Pollen grains called **Palynology**.
11. The books written by Parasara: "Krishi Parasaram" and "Vrikshayurveda". [IPE]
12. Krishiparsaram deals with agriculture and weeds. [IPE]
13. Vrikshayurvedam deals with the types of forests and plants including medicinal plants.
14. **Palaeobotany** is the study of **fossil plants**. [IPE]
15. It helps in understanding the course of evolution in plants. [IPE]
16. **Phycology** deals with the study of **chlorophyllous autotrophic thallophytes** (Algae)
17. **Mycology** deals with the study of **non-chlorophyllous heterotrophic thallophytes** (fungi)
18. **Pteridophytes** are called Vascular cryptogams. [IPE]
19. **Pteridology** is the branch that deals with pteridophytes. [IPE]
20. **Bryophytes** are called **amphibians of plant kingdom**.
21. **Bryology** deals with bryophytes.

FRUITY Qs OF IPE**1x 2= 2 Marks**

1. Name the books written by Parasara and mention the important aspects in those books.
2. Who is popularly known as father of Botany? What was the book written by him?
3. Why is Mendel considered as the father of Genetics?
4. Who discovered the cell and what was the book written by him?
5. What is Palaeobotany? What is its use?
6. Which group of plants is called vascular cryptogams? Name the branch of Botany which deals with them?
7. Which group of plants is called amphibians of plant kingdom? Name the branch of Botany which deals with them.

BULLET MASTER'S**BOT BEATS!**

"Plants can survive without humans but humans cannot survive without plants".

Plants are the source of oxygen, food, shelter, cloth, medicine etc.,

Every human depend on plants like "a baby in the womb of mother nature".