

12th Botany Important Guess Questions

Reproduction in Flowering Plants

1. Explain the development of pollen grain in angiosperms.
2. Describe the structure and development of female gametophyte.
3. What is double fertilisation?
4. Explain the following terms:
 - (a) Apomixis
 - (b) Endosperm

Genetics

1. Give a detailed account of the Law of Independent Assortment.
2. Define the following:
 - (a) Co-dominance
 - (b) Multiple allelism
 - (c) Polygenes inheritance
1. What is pleiotropism?
2. Give the detailed account of DNA replication with emphasis on the semi-conservative mode.
3. Explain the functioning of Lac Operon in detail.
4. Define the following:
 - (a) Genetic code

- (b) Transcription unit
- (c) Central Dogma

Ecology and Environment

1. Give a brief account of the following population interactions:
 - (a) Parasitism
 - (b) Mutualism
2. Explain the process of decomposition in detail.
3. Give a detailed account of the ecological pyramids.
4. How is exponential growth different from logistic growth?
5. Define:
 - (a) Food chain
 - (b) Productivity
6. Explain the patterns of biodiversity with emphasis on species-area relationships.
7. What are the main causes of biodiversity loss?

Biology and Human Welfare

1. Explain the role of microbes in household.
2. What is organic farming, and how is it beneficial?
3. Write short notes on:
 - (a) Sewage treatment plant
 - (b) Antibiotics