

SL No of QP 9873

Unique Paper Code : 2163010012
Name of the Paper : Reproductive Ecology
Name of the Course : B.Sc. (H) Botany
Semester : VII
Duration : 2 hours
Maximum Marks : 60 Marks

Instructions for Candidates:

1. Write your Roll no. on the top immediately on receipt of this question paper.
2. Attempt any four questions in all, first question is compulsory.
3. All questions carry equal marks.
4. Attempt all parts of the questions together.
5. Draw well labelled diagrams wherever necessary.

Q.1. (a) Match the following: (5x1=5)

- | | |
|---------------------|-----------------------|
| i. Pseudocopulation | a. Bees |
| ii. Ephydrophily | b. Outbreeding device |
| iii. Myophily | c. <i>Vallisneria</i> |
| iv. Protoandry | d. Flies |
| v. Pollen basket | e. Orchids |

Q.1. (b) Define any five of the following terms: (5x1=5)

- i. Floral foragers
- ii. Sporophytic self-incompatibility
- iii. Anemochory
- iv. Gynodioecious
- v. Polysymmetry
- vi. Habitat fragmentation

Q.1. (c) Fill in the blanks: (5x1=5)

- i. Dichogamy promotes.....pollination.
- ii. The occurrence of male and female flowers on the different plant is known as.....
- iii. A thin proteinaceous layer present on the surface of dry stigma is known as
- iv. A correlation between floral trait and pollinating agent is known as.....
- v. Spatial separation of the anthers and the stigma in bisexual flowers is called.....

Q. 2. Differentiate between any three of the following: (3x5=15)

- i. Autogamy and Xenogamy
- ii. Mutualistic and non-mutualistic pollination

- iii. Anemochory and Zoochory
- iv. Orthodox and recalcitrant seed

- Q. 3. Write short notes on any three of the following: (3x5=15)**
- i. Factors affecting pollen-pistil interaction
 - ii. Pollinator guilds
 - iii. Mellitophily
 - iv. Factors affecting seed germination
- Q. 4. (a) Discuss the impact of invasive species on reproductive biology of plants. 8**
- (b) Describe in details the characteristics features of anemophilous plants. 7**
- Q. 5. (a) Explain the role of pollinators in reproductive success of plants. 4+4**
What are the consequences of pollinator decline?
- (b) Write down the ecological significance of seed dispersal and also 3+4**
explain the primary and secondary mode of dispersal.