

**2015**

**M.Sc.**

**4th Semester Examination**

**BOTANY**

**PAPER—BOT-401**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer any four questions.

10×4

What are NTFPs ? Write two species each of medicinal and oil producing trees of South West Bengal. Mention the parts used of each species.

2+(2+2)+(1+1+1+1)

Enumerate the physical properties of honey. Mention two species of honey bees of India. Write the medicinal value of honey.

4+2+4

TB

(Turn Over)

3. What is sacred grove? Discuss the socio-cultural and conservation values of sacred groves.  $2+(4+4)$
4. Define Invasive species. Write two species of invasive weeds of West Bengal. Mention their harmful or beneficial roles, if any.  $3+2+(2\frac{1}{2}+2\frac{1}{2})$
5. What is germplasm? Write briefly the different measures for germplasm preservation. Mention the utility of germplasm conservation.  $3+4+3$
6. Write short notes on (any four) :  $2\frac{1}{2} \times 4$
- (a) Uses of tanin.
  - (b) Economic importance of resin.
  - (c) Advantages of using plant-produced dyes.
  - (d) IUCN.
  - (e) Cryopreservation.
  - (f) Clonal propagation.