

**2016**

**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. 4×10

1. Distinguish between resin and oleoresin. Name two Indian plants producing resin. Mention the uses of resin. State different types of fibres.

(1+1)+2+3+3

2. Write the chemical composition of honey. How honey bee produces honey from nectar? What is HMF? 4+4+2

*(Turn Over)*

3. What is traditional conservation of biodiversity? Discuss the conservation values of sacred groves. 3+7
4. Define clone. Which parts of an angiospermic plant is considered as germplasm? Give a brief account of *in site* and *ex situ* conservation measures of a vegetatively propagated species. 2+2+6
5. Define endangered and threatened species. Write two endangered and threatened species from West Bengal. Mention their beneficial roles. (2+2)+(1+1)+4
6. Write short notes on (any four) :  $2\frac{1}{2} \times 4$
- (a) Uses of flosses;
  - (b) Aroma of honey;
  - (c) Use of plant produced dyes;
  - (d) IUCN.
  - (e) Chimera;
  - (f) Sacred tree.