

BOTANY

Course ID : 31352 Course Code : BOT/302C (TH)

**Course Title : Ethnobotany and Pharmacognosy,
Tissue Culture**

Time : 2 Hours

Full Marks : 30

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.*

Group - A

(Ethnobotany & Pharmacognosy)

2. Answer **any one** question : 5×1=5
- (a) What is drug adulteration? Describe different types of adulteration with examples. 2+3
- (b) Name two modern drugs and mention their sources with medicinal uses which have discovered from ethnobotanical leads. 1+4
3. Answer **any one** question : 8×1=8
- (a) Give a brief account of pharmacological and chemical classification of crude drugs with proper examples. 4+4
- (b) What is ethnobotany? Discuss the different steps of ethnobotanical study. 2+6

Group - B
(Tissue Culture)

4. Answer **any two** questions : 1×2=2
- (a) What is somaclonal variation?
- (b) Distinguish between cybird and hybrid.
- (c) Write the full form of PEG?
- (d) What are the polyhaploids?

5. Answer **any one** question : 5×1=5
- (a) What is transgenic plant? Describe the role of germplasm conservation in plants through tissue culture methods. 2+3
- (b) What is artificial seed? How artificial seed can be produced from somatic embryos? 2+3
6. Answer **any one** question : 8×1
- (a) What is cell suspension culture? Write in brief about the applications of plant cell and tissue culture for the improvement of crops. 2+6
- (b) Describe the different stages of micropropagation. Mention two advantages of micropropagation. 6+2