Total no. of printed pages = 02

(Sem-6/CBCS)BOT

2023

BOTANY

(Honors)

Paper Code: BOT-HC-6026

(Plant Biotechnology)

Full Marks: 30

Time: 1 1/2 Hours

1. Fill in the blanks

- (a) Full form of PCR.
- (b) Define phagemids.
- (c) Cryopreservation.
- (d) What do you mean by palindromic sites.

1X4=4

2. Answer the following questions (any three)	2X3=6
(a) Define organogenesis.	
(b) Shuttle vectors.	
(c) Callus	
(d) Totipotency.	
3. Write briefly on the following: (any two)	5X2=10
(a) Embryogenesis	
(b) Ti plasmid	
(c) Germplasm conservation.	
4. Answer the following questions (any one)	10

- (a) What is protoplast fusion? Discuss the techniques involved in protoplast isolation, purification and fusion.
- (b) Discuss about pUC 18, pUC 19 and pBR322.