

COURSE CODE: 18B11BT411

MAX. MARKS: 15

COURSE NAME: CELL BIOLOGY & CULTURE TECHNOLOGIES

COURSE CREDITS: 04

MAX. TIME: 1HR

*Note: All questions are compulsory. Carrying mobile phone during examinations will be treated as a case of unfair means.*

1. A) What do you understand by plant tissue culture and what are the scopes of these technologies? Explain three landmark events created by Indian scientists in the same.

2.5 Marks

[CO3]

- B) How large scale multiplication of medicinal plants can be carried out? Explain the methodology for the same.

2.5 Marks

[CO3]

2. What are phospholipids? Explain the packing arrangement of lipid molecules in an aqueous environment and the types of movement possible for phospholipid molecules in a lipid bilayer.

3Marks

[CO1]

3. Enlist the proteins of plasma membrane and explain their membrane functionality.

3Marks

[CO1,2]

4. Explain the process of receptor mediated endocytosis and give example. 2Marks

[CO1]

5. Write a note on ABC transporters and its role in drug resistance.

2Marks

[CO1,2]