

ASUTOSH COLLEGE
DEPARTMENT OF BOTANY
BOTANY HONOURS
B.Sc. SEMESTER V : (CBCS UNDER CU)
DISCIPLINE SPECIFIC ELECTIVE
DSE – B (BOT-A-DSE-B-5-5-TH)

FULL MARKS : 30

Time : 1hr 30 mins

ANSWER THE FOLLOWING QUESTIONS

1. What are the basic components required to prepare the basal media of plant tissue culture ? Which components are required to induce dedifferentiation and redifferentiation in plant tissue? What are the components are heat labile ? How those are sterilised before adding to media?

5+2+1+2=10

2. How will you sterilize media and glass wares to be used in tissue culture ? Mention the equipment used for that purpose along with working principle. Name two surface sterilizing chemicals used in plant tissue culture. Give a flow chart of aseptic transfer technique of plant tissue explant.

5+1+4=10

3. Make a chart of major five essential equipment used in a Plant Tissue Culture laboratory along with their purpose of use. 5

Write a brief note on any one of the following topics under the points like

(i. Definition ii. Explants used iii. Plant species attempted with success iv. Brief procedure)

a. Anther culture, b. Somatic embryogenesis c. Endosperm culture d. Micro propagation 5

**** SEND YOUR ANSWER SCRIPTS IN THE FOLLOWING EMAIL ID:**

asutoshbotany@gmail.com within 4 p.m.