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FACULTY OF ENGINEERING &
TECHNOLOGY

Course: B. Tech Biotechnology
Sub Code: BBT-515

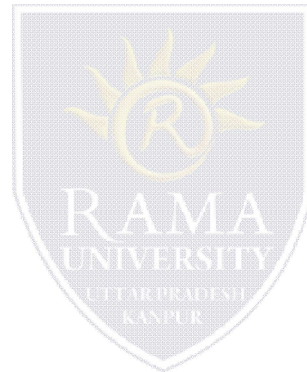
Semester: 5th
Sub Name: Plant Biotechnology

LECTURE 5

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BASIC REQUIREMENTS FOR PLANT TISSUE CULTURE LAB

- ✓ Plant material
- ✓ Equipments and glasswares
- ✓ Aseptic condition
- ✓ Sterilization room
- ✓ Nutrient medium
- ✓ Transfer room
- ✓ Culture room or incubators
- ✓ Proper and optimum aeration
- ✓ Well equipped observation or recording area



Requirements of plant tissue culture

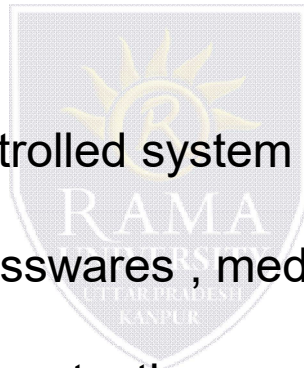
Plant material

- Plant material should be disease free and should not be too old.
- Species, genotype or variety should be of appropriate one.



Equipments and glasswares

- Laminar air flow chamber and incubating chamber with UV light fitting for aseptic transfer
- Incubator with temperature controlled system
- Autoclave for sterilization of glasswares , media etc.
- Refrigerators for storage of reagents, tissue culture stock solution, plant hormones etc.
- pH meter for adjusting the pH of nutrient medium.





Laminar air flow chamber



QUIZ

