

ST.JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM
VIII SEMESTER **BIOTECHNOLOGY** TIME: 2 Hrs/ Week
BTH 8751 (2) **MICROBIAL DISEASES AND MANAGEMENT** Max. Marks: 50
(Core course)

W.e.f 20AH Batch

OBJECTIVE: To enable the students to

1. Identify different plant diseases
2. Acquire the knowledge on diseases control
3. Practice integrated pest management techniques
4. Understand the processes of disease development

COURSE OUTCOMES: Students will

- **CO1:** Be able to list out different types of nurseries and beds
- **CO2:** Identify the nursery tools, implements and containers.
- **CO3:** Develop skill on potting media preparation and plant production
- **CO4:** Learn the technique of establishing cutting, layering, grafting etc.

PRACTICAL COURSE:

1. Isolation of bacteria from hospital environment.
2. Evaluating the effect of pasteurization.
3. Examination of fungal flora from air samples in hospital.
4. Isolation of fungi from leaf rust of sugarcane.
5. Spread plate technique for isolation of Pseudomonas from mango leaves.
6. Preparation of blood smears.
7. Isolation of Xanthomonas Species from citrus canker.

REFERENCES

1. Microbes and Evolution by Roberto Kolter, Publisher: ASM Press, 24 June 2012
2. Plant pathology and Plant diseases, Anne Marte, David B, Publisher: CABI Publishing, 16 October 2020
3. A text book on integrated pest management, G.S. Phalliwal, Ram Singh, Vikas Jin
4. A text book of Microbiology - R. AnanthNarayana, Publisher: Universities Press (India) Pvt. Ltd.; Eleventh edition, 3 July 2020
5. Clinical Microbiology - Mark Gladwin, Publisher: Medmaster; 6th edition, 10 August 2013