ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

II SEMESTER **BOTANY**  TIME:2Hrs/Week

B-Ma2-2151(3) **ORIGIN OF LIFE AND DIVERSITY OF MICROBES** Marks: 50

w.e.f. 2023-24 admitted batch (23AK)  **PRACTICALS**

1. **COURSE OUTCOMES:** On successful completion of this practical course, student shall

be able to: 1. Take all necessary precautions in the microbiology laboratory.

2. Handle the instruments and prepare media for laboratory work.

3. Identify various microbes through microscopic observations

**II. LABORATORY/FIELD EXERCISES:**

1. Microbiology good laboratory practices and biosafety.

2. Study the principle and applications of important instruments (autoclave, hot air oven,

incubator, Inoculation loop, Inoculation needle, membrane filter, laminar air flow

system, colony counter. biological safety cabinets, BOD incubator, pH meter) used in

the microbiology laboratory.

3. Study of Viruses (Gemini and TMV) using electron micrographs/ models.

4. Gram staining technique of Bacteria.

5. Microscopic study of Cyanobacteria using temporary/permanent slides.

6. Microscopic study of Eubacteria using temporary/permanent slides.

7. Study of Archaebacterial and Actinomycetes using permanent slides/ electron

micrographs/diagrams.

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