BOT-159

GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM

I B.Sc - SEMESTER- I: Botany Core Course – 1 Model Question Paper (w.e.f. 2020-21)

Paper- I: Fundamentals of Microbes and Non-vascular Plants

(Viruses, Bacteria, Fungi, Lichens, Algae and Bryophytes)

Time: 2 ½ Hrs. Max. Marks: 50

Section -A

 $5 \times 4 = 20 M$

Answer any Four of the following questions. Draw diagrams wherever necessary.

- 1. concept of primary Abiogenesis
- 2. Tobacco Mosaic Virus
- 3. Binary fission in Bacteria
- 4. Citrus canker
- 5. Pigments in Algae
- 6. Economic importance of Algae
- 7. General characteristics of fungi
- 8. Economic importance of Lichens
- 9. Marchantia thallus
- 10. Economic importance of Lichens

Section - B

 $3 \times 10 = 30 M$

Answer any Three of the following questions. Draw neat labeled diagrams wherever necessary.

- 1. Give an account on Origin of life.
- 2. Discuss different modes of nutrition in Bacteria.
- 3. Discuss about the range of thallus structure in algae.
- 4. Describe the life cycle of *Puccinia*
- 5. Write an essay on evolution of sporophytes in Bryophyta.

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GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM I B.Sc - SEMESTER -I

BOTANY PRACTICAL MODEL PAPER –I (w.e.f 2020-2021 admitted batch)

Paper-1 Fundamentals of Microbes and Non-vascular Plants

Time: 3hrs. Max. Marks: 50

Identify giving reasons two of the given Algal mixture" A". Leave your preparation for evaluation. Draw labeled diagrams. (Slide--1mark, Diagrams--1mark,
 Identification--1mark)
 2 x 5 = 10 Marks

- Take the T.S. of material 'B' (Fungi/ Bryophyta), make a temporary mount and make comment about identification. (Section cutting-5 marks, Identification-1 Mark, Notes-2 marks, diagrams-2 marks)
- 3. Perform Gram staining of the given Bacterial culture.

10 Marks

4. Write critical notes and Identify D, E, F, G

4x3=12 Marks

5. Record and Viva- voce

5+3=08 Marks

Total: 50 Marks

Key:

- A. Algal material
- B. Fungi/ Bryophyta
- C. Gram staining of Bacteria.
- D. One of the instruments of Micro biology laboratory.
- E. Virus/ Bacteria/ Plant Diseases.
- F. Whole specimen or a permanent slide of Algae/ Fungi.
- G. Lichen.