

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FIFTH SEMESTER – NOVEMBER 2019

16/17UPB5ES01 – PRINCIPLES OF AGRICULTURE

Date: 06-11-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part A

Answer the following, each within 50 words.

(10 x 2 = 20 marks)

1. What is Green Revolution?
2. Mention the proportion of atmospheric gases on earth.
3. What is reclamation of soil?
4. Write any two macroelements and its importance.
5. Mention the importance of sprinkler irrigation.
6. List any two principles of soil fertility.
7. Mention the significance of ploughing?
8. Comment on foliar sprays.
9. Distinguish between Kharif and Rabi crops.
10. What is IPM?

PART B

Answer the following, each within 500 words. Draw diagrams and flowcharts wherever necessary.

(5 x 7 = 35 marks)

11a. Discuss the impact of changing environment on cropping pattern.

Or

11b. Give a brief account on types of cropping pattern.

12a. Explain the importance of microbes in enriching the soil fertility.

Or

12b. Write short notes on organic farming.

13a. Discuss the causes and effects of water logging.

Or

13b. Explain the types of irrigation.

14a. Enumerate the significance of crop rotation and intercultivation.

Or

14b. Write notes on nursery and transplantation in paddy cultivation.

15a. Discuss the mode of propagation and dissemination of weeds.

Or

15b. Write an account on insect pests, their characteristics and its control measures.

PART C

Answer **any three** of the following, each within 1200 words. Draw diagrams and flowcharts wherever necessary.

(3 x 15 = 45 marks)

16. Discuss the modern methods of cultivation of crops.
17. Give a detailed account on types of soil in India.
18. Explain the agronomic practices followed in groundnut cultivation.
19. Discuss any ten implements and its usage in agriculture.
20. Give an account on classification and characteristic features of weeds. Add a note on methods to control weeds.

\$\$\$\$\$\$\$\$