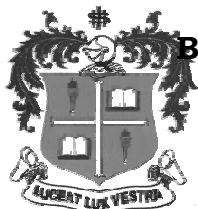


LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & PLANT BIO-TECH.

FIFTH SEMESTER – NOVEMBER 2013

PB 5409 - PRINCIPLES OF AGRICULTURE

Date : 15/11/2013

Dept. No.

Max. : 100 Marks

Time : 9:00 - 12:00

PART A

(20 marks)

Answer the following, each within 50 words

(10 x 2 = 20 marks)

1. Mention the classification of crops based on life span and season.
2. List out any four modern implements used in crop cultivation.
3. What is soil erosion?
4. Mention the significances of drip and sprinkler irrigation.
5. Define organic farming.
6. Mention any two crops that are cultivated in black and red soil.
7. Distinguish between ploughing and intercultivation.
8. What is mixed cropping?
9. Define a weed.
10. What is integrated pest management?

PART B

(5 x 7 = 35 marks)

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

- 11a. Briefly comment on the current status of agriculture in India.
or
b. Explain how green revolution improved our agriculture production.
- 12a. How are industrial effluents affect the soil and water condition?
or
b. Explain any two ways of reducing run-off losses of irrigation water.
- 13a. Enumerate the characteristic features of alluvial and black soil.
or
b. Explain the role of macro nutrients in crop productivity.
- 14a. What is inter cultivation? Explain how it improves the crop yield.
or
b. Briefly explain the types of seed sowing in agriculture.
- 15a. Give a general account on methods to control insect pest.
or
b. Explain the importance and role of agricultural extension activity.

PART C

(3 x15 = 45 marks)

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

16. Explain the various factors that affect agriculture production.
17. Give an account of water sources and types of irrigation.
18. Write notes on Biofertilisers.
19. Describe the agronomic practices followed in paddy cultivation.
20. Mention the characteristic features of weed. Add a note on various methods used to control weeds.
