

Reg. No. :

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Question Paper Code : 27013

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Second Semester

Agriculture Engineering

AI 6202 — PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out the environmental factors affecting crop growth.
2. Write four adaptations of crops under drought condition.
3. List out the factors creating competition among crop plants.
4. Define Leaf Area Index with formula and unit.
5. Define fertigation.
6. What are types of harvest?
7. List out four important production practices for groundnut.
8. Define detrashing and propping.
9. Differentiate training and pruning.
10. Define Green house.

PART B — (5 × 16 = 80 marks)

11. (a) Elaborately discuss internal and external factors affecting crop growth and production.

Or

- (b) Narrate the adaptations of the crops to the existing environment.
12. (a) Elaborately discuss nursery growing, field preparation and seed treatment for crops.

Or

- (b) Write detailed notes on regional and seasonal selection of crops.

13. (a) Enumerate the importance of water and nutrient management in crops.

Or

(b) Explain integrated management methods for pests and pathogens.

14. (a) Write generalized management and cultivation practices for cereal (rice) crop.

Or

(b) Write detailed notes on cultivation practices for fiber (cotton) crop.

15. (a) Elaborately discuss cultivation practices for fruit (mango) crop

Or

(b) Write generalized management and cultivation practices for vegetable (tomato) crop.

Reg. No.

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Question Paper Code : 57021

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Second Semester

Agriculture Engineering

AI 6202 – PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Write four modifications of crops under drought condition.
2. List out the internal factors affecting crop growth.
3. Write the systems of crop production
4. Define : LAI.
5. Write the methods of nutrient application.
6. Define : INM.
7. List out major four cereal crops with recommended NPK in Tamil Nadu.
8. Name the cultivation practices followed in sugarcane.
9. Write the cultivation practices for tomato.
10. Differentiate training and pruning.

PART – B (5 × 16 = 80 Marks)

11. (a) Narrate the adaptations of the crops to the existing environment.

OR

(b) Elaborately discuss the external factors affecting crop growth and production.

12. (a) Explain the competition among crop plants, spacing and arrangement of crops.

OR

(b) Write detailed notes on regional and seasonal selection of crops.

13. (a) Enumerate the crop management techniques in irrigation, weed management and IPM.

OR

(b) Elaborately discuss the types and methods of harvest.

14. (a) Write generalized management and cultivation practices for representative pulse crop.

OR

(b) Write detailed notes on cultivation practices for representative oil seed crop.

15. (a) Elaborately discuss cultivation practices for representative fruit crop.

OR

(b) Explain the special features of production of horticultural crops.

Reg. No. :

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Question Paper Code : 71344

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Second Semester

Agriculture Engineering

AI 6202 — PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out the internal factors affecting crop growth.
2. Differentiate drought escape and drought avoidance.
3. Write the criteria of selection of crops.
4. Write a note on systems of tillage.
5. Write the significance of micronutrients in crop production.
6. Write a note on techniques in crop water management.
7. Write the NPK recommendation for two cereal and two legume crops.
8. List out the important production practices for rice.
9. Write a note on green house cultivation.
10. Differentiate training and pruning.

PART B — (5 × 16 = 80 marks)

11. (a) Explain the adaptations of crops to the existing growing environment.

Or

- (b) Elucidate the external factors affecting crop growth and production.

12. (a) Explain the competition among crop plants, spacing and arrangement of crops.

Or

- (b) Write in detail the significance of cropping systems.
13. (a) Explain the crop management techniques in irrigation and weed management.

Or

- (b) Write in detail the integrated methods of plant protection and methods of harvest.
14. (a) Explain the crop production practices from sowing to harvest for pulses.

Or

- (b) Explain the cultivation practices recommended for cotton.
15. (a) Write the methods of cultivation and management of banana in Tamil Nadu.

Or

- (b) Explain the special features of production of horticultural crops.

Reg. No. :

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Question Paper Code : 77008

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Second Semester

Agriculture Engineering

AI 6202 — PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the internal and external factors affecting crop production.
2. List the cultural practices followed for rice crop to mitigate drought stress.
3. What are the pre requisites for site selection of nursery growing?
4. Define – seed treatment and its advantages.
5. Write a note on the effects of weeds on crop growth and yield.
6. Expand INM and write the concept of INM.
7. List the economic importance and uses of Maize.
8. List the methods of planting for sugarcane.
9. List out different methods of asexual propagation in horticulture crops.
10. Define Mulching and its uses.

PART B — (5 × 16 = 80 marks)

11. (a) Write in detail the importance and scope of agriculture in India.

Or

- (b) Write in detail the external factors affecting crop production.

12. (a) Define – Tillage and write the types of tillage with practical advantages.

Or

(b) Discuss the different cropping systems for agricultural crop cultivation.

13. (a) Discuss cultural, mechanical and biological method of weed control.

Or

(b) Explain the different methods of fertilizer application.

14. (a) Discuss the package of practices for maize and ground nut.

Or

(b) Give a detailed account of the economic importance of oil seed crops, fibre crops and sugar crops.

15. (a) Explain the cultivation practices of Mango and Onion.

Or

(b) Explain the importance of green house for horticultural crops and write briefly on the maintenance of green houses.

Reg. No. :

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Question Paper Code : 80031

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Second Semester

Agriculture Engineering

AI 6202 — PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define: Drought escape.
2. Classify the plants based on temperature.
3. Define: Multiple cropping.
4. Write the advantages of seed treatment
5. Define: Fertigation.
6. List the Methods of harvest.
7. List out four important production practices for groundnut.
8. Define detrashing and propping.
9. Define: Green house
10. List out important groups of horticultural crops in Tamil Nadu.

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the factors affecting crop growth and production.

Or

- (b) Narrate the crop management through environmental modifications in crops.

12. (a) Elaborately discuss the field preparation with systems of tillage.

Or

(b) Write detailed notes on cropping systems.

13. (a) Detail notes on methods and timing of supplemental nutrients.

Or

(b) Describe the methods of weed management.

14. (a) Write generalized management and cultivation practices for cereal (rice) crop.

Or

(b) Write detailed notes on cultivation practices for fiber (cotton) crop.

15. (a) Elaborately discuss cultivation practices for fruit (mango) crop

Or

(b) Write generalized management and cultivation practices for vegetable (tomato) crop.
