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Question Paper Code: 53106

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Third Semester

Agricultural Engineering

15UAG306 - PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- Planting/sowing of succeeding crop before the harvest of preceding crop
 - Relay cropping
 - Sequential cropping
 - Ratoon cropping
 - Intercropping
- Tillage system in which only the isolated bands are tilled is called as
 - Zero tillage
 - Minimum tillage
 - Mulch tillage
 - Strip tillage
- The injection of fertilizers, soil amendments and other water-soluble products into an irrigation system
 - Micro Irrigation
 - Sprinkler irrigation
 - Fertigation
 - Drip irrigation
- _____ is the mechanical method of weed control.
 - Digging
 - Sowing
 - Cropping
 - Pruning
- Puddling is a practice done in _____ crop.
 - Rice
 - Maize
 - Bhendi
 - Cotton
- Mixing of seed with powder form of pesticides is a
 - Dry treatment
 - Wet treatment
 - Pelleting
 - Slurry treatment

7. Seed rate for three budded sugarcane is
- (a) 30,000/ha (b) 40,000/ha
(c) 50,000/ha (d) 60,000/ha
8. Delinting is done by
- (a) Sulphuric acid (b) Hydrochloric acid
(c) Nitric acid (d) Phosphoric acid
9. Propagation of tomato is by
- (a) Bulb (b) Tuber (c) Sucker (d) Seed
10. Commonly followed spacing for papaya crop is
- (a) 2m × 2m (b) 4m × 4m (c) 4m × 5m (d) 5m × 4m

PART - B (5 x 2 = 10 Marks)

11. List out the internal and external factors affecting the crop production.
12. Define Wilting Co-efficient.
13. Define fertigation.
14. Write the methods of planting for sugarcane.
15. List out different methods of asexual propagation in horticultural crops.

PART - C (5 x 16 = 80 Marks)

16. (a) Narrate the adaptations of the crops to the existing environment. (16)

Or

- (b) Discuss the importance of primary and secondary tillage in agriculture. Explain the equipments required for the same. (16)

17. (a) Write detailed notes on regional and seasonal selection of crops. (16)

Or

- (b) What are the methods of irrigation? Discuss the drip irrigation system of irrigation with a neat sketch of layout indicating all components. (16)

18. (a) Explain the different methods of fertilizer application. (16)

Or

- (b) Write detailed notes on cultivation practices of cereal (rice) crop. (16)

19. (a) Write generalized management and cultivation practices for biofuel (Jatropha) crop. (16)

Or

(b) Write detailed notes on cultivation practices of Fiber (Cotton) crop. (16)

20. (a) Write detailed notes on cultivation practices of Fruit (Banana) crop. (16)

Or

(b) Explain the importance of green house for horticultural crops and write briefly on the maintenance of green houses. (16)
