Reg. No. :

Question Paper Code: 53A06

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B.E./B.Tech. DEGREE EXAMINATION, MAY 2018

Third Semester

Agricultural Engineering

15UAG306 PRINCIPLES AND PRACTICES OF CROP PRODCUTION

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 1 = 10 Marks)

- 1. Planting/sowing of succeeding crop before the harvest of preceding CO1- R crop
 - (a) Relay cropping (b) Sequential cropping
 - (c) Ratoon cropping (d) Intercropping
- 2. Growing two or more crops consecutively on the same field in the CO1- U same year is known as
 - (a) multiple cropping (b) diversified cropping
 - (c) relay cropping (d) double cropping
- 3. Flooding method of irrigation is suitable for _____ crop
 CO2- R

| | (a) rice | (b) maize | (c) sunflower | (d) groundnut | |
|----|---|----------------|----------------|----------------------|--|
| 4. | Which is the world's most problematic weed? | | | CO2- U | |
| | (a) Ambrosia | (b) Parthenium | (c) Utrica sp. | (d) Cyperus rotundus | |

| 5. | Dead heart and white head damage to rice is caused by | | | | | | | |
|---------------------------|---|---------------------|---|-----------------|--------|--|--|--|
| | (a) Gall midge | (b) Leaf roller | (c) Gundhi bug | (d) Stem | borer | | | |
| 6. | Deep ploughing of so because it | oil in a groundnu | t filed should be norr | nally avoided | CO3- R | | | |
| | (a) delays harvesting | | (b) makes harvesting difficult | | | | | |
| | (c) delays germination | | (d) delays both peg and pod development | | | | | |
| 7. | Seed rate for three budded sugarcane is | | | | CO4- U | | | |
| | (a) 30,000/ha | (b) 40,000/ha | (c) 50,000/ha | (d) 60,000 | 0/ha | | | |
| 8. | Topping in cotton is de | one to enhance | | | CO4- R | | | |
| | (a) flowering (b) sympodial branching | | | | | | | |
| | (c) terminal growth | | (d) seed size | | | | | |
| 9. | Pungency in chilli is d | ue to | | | CO5- U | | | |
| | (a) alkaloid | (b) acids | (c) capsicin | (d) sulphur | | | | |
| 10. | Commonly followed spacing for papaya crop is | | | | CO5- R | | | |
| | (a) $2m \times 2m$ | (b) $4m \times 4m$ | (c) $4m \times 5m$ | (d) $5m \times$ | 4m | | | |
| PART – B (5 x 2= 10Marks) | | | | | | | | |
| 11. | List out the internal and external factors affecting the crop production. | | | CO1- U | | | | |
| 12. | Differentiate water requirement and irrigation requirement | | | | CO2- U | | | |
| 13. | Define fertigation. | | | | CO3- U | | | |
| 14. | Name the diseases that are common in cotton | | | | | | | |
| 15. | List out different meth | ods of asexual proj | pogation in horticultura | l crops. | CO5- U | | | |

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| PART – C (5 x 16= 80Marks) | | | | | | | | | |
|----------------------------|-----|--|----------|------|--|--|--|--|--|
| 16. | (a) | Narrate the adaptations of the crops to the existing environment. | CO1-U | (16) | | | | | |
| Or | | | | | | | | | |
| | (b) | Discuss different types of cropping system | CO1 -U | (16) | | | | | |
| 17. | (a) | Classify irrigation methods and explain with appropriate sketch | CO2 -Ana | (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. | CO2 -Ana | (16) | | | | | |
| 18. | (a) | Explain the different methods of fertilizer application. | CO3- U | (16) | | | | | |
| | Or | | | | | | | | |
| | (b) | Recommend water, nutrient and weed management for any two oil seed | CO3- U | (16) | | | | | |
| 19. | (a) | Elaborate cultivation practices followed for sugarcane | CO4-U | (16) | | | | | |
| Or | | | | | | | | | |
| | (b) | Write detailed notes on cultivation practices of Fiber (Cotton) crop. | CO4 -U | (16) | | | | | |
| 20. | (a) | Write detailed notes on cultivation practices of Fruit (Banana) crop. | CO5- Ana | (16) | | | | | |
| Or | | | | | | | | | |
| | (b) | Elaborate cultivation practices followed for brinjal, tomato and chilli | CO5- Ana | (16) | | | | | |