A **Reg. No. :** | | | | | | | | | | |

Question Paper Code: 53A06

B.E./B.Tech. DEGREE EXAMINATION, NOV 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 - (10 x 1 = 10 Marks)

1. The cause for damping off disease in tomato is CO1- R

   (a) Dry weather (b) Excess irrigation (c) Water stress (d) Cool climate

2. Important soil factor affecting the crop growth CO1- R

   (a) Texture (b) Structure (c) pH (d) Temperature

3. SRI technique is followed for this crop cultivation CO2- R

   (a) Sweet sorghum (b) Sweet potato (c) Sugar beet (d) Rice

4. Spraying DAP is followed at this stage for pulses cultivation CO2- R

   (a) Sowing (b) Flowering (c) Pre-harvest (d) Tillerirng

5. Thrips damage is the major problem in cultivation of this crop CO3- R

   (a) Mango (b) Sapota (c) Chillies (d) Brinjal

6. Unisexual flowers is common in this crop CO3- R

   (a) Papaya (b) Mango (c) Tomato (d) Rice

7. High density planting is the recent technique followed in this crop cultivation CO4- R

   (a) Rice (b) Pulses (c) Mango (d) Papaya

8. Fertigation technique involves the application of _____ CO4- R

   (a) Fertilizer (b) Pesticides (c) Fertilizer+Irrigation (d) Fertilizer+Pesticides

9. Brinjal has this as major problem CO5- R

(a) Stem borer (b) Fruit borer (c) Thrips (d) Aphids

10. Growing banana inside coconut garden is an example CO5- R

(a) Relay cropping (b) Multi-tier cropping (c) Strip cropping (d) Inter-cropping

PART – B (5 x 2= 10Marks)

11. Define agronomy CO1- R
12. Write about seed treatment CO2- U
13. List out four important practices followed in black gram cultivation CO3- Ana
14. Explain detrashing in sugarcane CO4-U
15. Name four methods of managing tomato fruit borer CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Justify different methods of tillage practices. CO1- U (16)

Or

(b) Justify different cropping systems. CO1- U (16)

17. (a) Execute various types of insect damages in crops. CO2- Ana (16)

Or

(b) Execute various types of diseases in crops. CO2- Ana (16)

18. (a) Outline the merits and demerits of weeds in agriculture CO3- U (16)

Or

(b) Outline various methods of weed management CO3- U (16)

19. (a) Illustrate the rice production technology CO4-U (16)

Or

(b) Illustrate mango production technology CO4-U (16)

20. (a) Explain the role of major nutrients in crop growth CO5- U (16)

Or

(b) Explain the role of micronutrients in crop growth CO5- U (16)