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Question Paper Code: R1A04

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024

First Semester

Agricultural Engineering

R21UAG104- PRINCIPLES AND PRACTICES OF CROP PRODUCTION

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. The scientific study of crop management is called _____ CO1-U
(a) Chemical (b) Agronomy (c) Biological (d) None of the above
2. The example of cereal crop is _____ CO1-U
(a) Rice (b) Maize (c) Green gram (d) Both (a) and (b)
3. Requirement temperature of fruit set in tomato varieties is _____ CO1-U
(a) 15-20°C (b) Hot-above 20 °C
(c) Cold- below 15°C (d) All the above
4. Centre of origin of maize is _____ CO1-U
(a) Central America (b) Mexico (c) South East Asia (d) None of the above
5. The sugar content of the sugar beet is..... CO1-U
(a) 12 – 15% (b) 15 – 25% (c) Both (a) and (b) (d) All the above
6. The Bhendi YVMV (Yellow Vein Mosaic Virus) resistant variety is CO1-U
.....
(a) Pusa Sawani (b) Arka-Kiran (c) Both (a) and (b) (d) None of the above
7. The weight of one cotton bale is equal to..... CO1-U
(a) 160kg (b) 170 kg (c) 180 kg (d) 178 kg

8. The Branch of atmospheric physics is called..... CO1-U
 (a) Meteorology (b) Agriculture meteorology (c) Weather (d) None of the above
9. The pull out the seedlings at the appropriate time stage As..... CO1-U
 (a) 4th leaf stage (b) 5th leaf stage
 (c) 3rd leaf stage (d) None of the above
10. The biotic factors are called..... CO1-U
 (a) Living things (b) Nonliving (c) Insects (d) Both (a) and (c)

PART – B (5 x 2= 10Marks)

11. Give details about Tillage and Types of tillage with suitable example. CO1 -U
12. What is the relation between agronomy to other sciences? CO1-U
13. What is meant by Climate and Weather? CO1-U
14. What is the economic importance of rice? CO1-U
15. Give the importance of cotton and origin. CO1-U

PART – C (5 x 16= 80Marks)

16. (a) Explain the following terms. CO1- U (16)
 (1) Agronomy (4)
 (2) Scope of agronomy (4)
 (3) Agro-climatic zones of Tamil Nadu (8)
 Or
 (b) Explain in detail about the physiographic and socio economic CO1- U (16)
 factors affecting the crop production.
17. (a) What is the importance of crop production and explain its future CO1- U (16)
 scope.
 Or
 (b) What is weather forecast and importance of weather forecast and CO1- U (16)
 its types?
18. (a) Illustrate the Package of common cultivation Practices for Pulses CO1- U (16)
 crop.
 Or
 (b) What are the packages of crop production practices for *Sesamum* CO1- U (16)
indicum? Give the proper explanation.

19. (a) Narrate the economic importance of cotton and package of practices. CO1- U (16)
- Or
- (b) Explain in detail about the important sugar crops like sugarcane and sugar beet. How do you prepare the field? CO1- U (16)
20. (a) Elucidate the crop production practices of Sapota crop and soil, climate, nutrient and water management specific problems and creative measures. CO2- App (16)
- Or
- (b) Explain the packages of practices involved the Chilli crop for the following assumption for preparation CO2- App (16)
- (1) Nursery technique (4)
 - (2) Soil climate (4)
 - (3) Intercultural operations (4)
 - (4) Nutrient management (4)

