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**Reg. No. :**

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**Question Paper Code: U2A04**

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

Second Semester

Agriculture Engineering

21UAG204- Principles and practices of crop production

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Agronomist aims at obtaining \_\_\_\_\_ CO1- U  
(a) maximum production (b) minimum cost  
(c) exploiting the knowledge (d) all the above
2. How it will define Farm enterprises\_\_\_\_\_ CO2- U  
(a) Agriculture (b) Horticulture (c) Poultry (d) all of the above
3. Example of Concentrated organic manures\_\_\_\_\_ CO3- U  
(a) Blood meal (b) Fish manure (c) Red gram (d) Both a & b
4. Requirement for fruit set in tomato varieties \_\_\_\_\_ CO4- U  
(a) 15-20° C (b) Hot-above 20° C (c) Cold- below 15° C (d) all of the above
5. Sugar content of the sugar beet \_\_\_\_\_ CO5- U  
(a) 12 – 15% (b) 15 – 25% (c) both a & b (d) all of the above

PART – B (5 x 3= 15 Marks)

6. Define Zero tillage with suitable example CO1- U
7. Define sustainable Agriculture. CO2- U
8. Define Climate CO3- U
9. What is the economic importance's of rice? CO4- U
10. Explain the intercultural operation method of Sugarcane. CO5- U

PART – C (5 x 16= 80 Marks)

11. (a) Women in agriculture and empowerment give elaborately CO1- U (16)  
Or  
(b) Furnish the details about Cropping pattern and cropping system CO1- U (16)  
- Intensive cropping.
12. (a) What are the modern concepts in tillage give detailed CO2- U (16)  
information.  
Or  
(b) What are the atmospheric weather variables and influences the CO2- U (16)  
crop production give elaborately.
13. (a) What are the differences between weather and climate, what CO3- U (16)  
are the factors affecting climate  
Or  
(b) Elaborate and give the detailed information of Integrated CO3- U (16)  
farming system
14. (a) Give economic importance of maize and various grain types of CO4- U (16)  
maize.  
Or  
(b) What are packages and practices of groundnut and give the CO4- U (16)  
details about different varieties.
15. (a) Explain the details about Mango fruit variety for field CO5- U (16)  
preparation to harvesting?  
Or  
(b) Role of NGO play crucial role in promoting organic CO5- U (16)  
agricultural practices in India.