Salahaddin University – Erbil **Subject:** Experimental Design

College of Agricultural Engineering Sciences **Stage:** Second

Department of Food Technology **Date:** 2022-2023

**Question Bank / 2022-2023**

**Q1\** 1. What is the difference between CRD and RCBD?

2. What is the disadvantage of RCBD?

**Q2\** Complete this table if you have the following data **r=4** and **F Tab. 0.05 = 4.75**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.O.V.** | **dF** | **SS** | **MS** | **F Cal.** | **F Tab. (0.05)** |
| Treatment | --- | --- | --- | 5 | --- |
| Error | 18 | --- | 6 |  |  |
| Total | --- | -- |  |  |  |

1. How many treatments used in this experiment?
2. Discuss the result?

**Q3\** Find the ANOVA table using RCBD and is there any differences among

treatments using Duncan Test?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Treatment | Replications | | | |
| T1 | 5 | 6 | 4 | 6 |
| T2 | 6 | 6 | 7 | 8 |
| T3 | 9 | 10 | 8 | 10 |
| T4 | 10 | 12 | 10 | 14 |

**Note: SS Total = 110.43 F tab. = 3.44**

**S.S.R. = 3.14 , 3.20 , 3.25**

*Assist. Prof. Dr Rebin Aswad Mirza*