**EXTERNAL LAB EXAM**

**FUNDAMENTALS OF AGRONOMY AND AGRICULTURAL HERITAGE**

**2hrs**

**I.** ANSWER ALL THE QUESTIONS  **60M**

**1.** Write about different methods of solid and liquid fertilizer application in detail with flowcharts wherever required. **(10M)**

**2.** Calculate the Plant population of **(5M)**

(i) cotton crop for **5 ha** if the spacing is 90 x 90cm

(ii) Pearlmillet for **1 acre** if the spacing is 45 x 15cm

**3.** Write about the harvest maturity symptoms of **(10M)**

a. Rice b. Maize c. Pearl millet d. Cotton e. Greengram

**4**. Calculate the amount of urea, DAP and MOP for **1ha** area if application rates of N, P2O5 and K2O are 120, 60 and 40 kg/ha, respectively **(5M)**

**5.** Direct seeded rice was sown at a spacing of 20 x 3cm. Calculate the quantity of seed required for 2.5 acres if germination and purity% are 95 and 90%, respectively and the test weight is 24g. **(5M)**

**II.** IDENTIFICATION OF SEED SAMPLES AND IMPLEMENTS – **10M**

**III.** RECORD AND OBSERVATION - **10M**

**IV.** VIVA-VOCE - **5M**

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