



AGRICULTURE AND FORESTRY UNIVERSITY

FACULTY OF AGRICULTURE

Department of Agronomy

Rampur, Chitwan
Final Practical Examination-2079

Subject: cereal crop (AGR 102)

Level: B.Sc., 2nd Sem

Time: 50 minutes

FM: 25/ Pm: 10

Attempt all questions. Each question carries equal marks (4 X 2.5 = 10)

1. A farmer wanted to raise rice seedling in dry bed method for transplanting 15 Katha of land. Calculate the nursery area, number of nursery bed, seed required for each nursery bed and total seed required for all nursery bed.
2. Calculate the amount of fertilizer for basal and top dressing of 5000 m² of rice field, if the recommended dose of nutrients is 100- 30 -30 N, P₂O₅ and K₂O kg/ha and available fertilizers in the market are Complexal (20 – 20- 0), Urea(46 -0 -0) and MOP(0- 0 -60).
3. Estimate the yield of rice(kg/ha) based on the information given

a) ET/m ²	= 160
b) No of grains /panicle	= 110
c) 1000 grain weight	= 25 g
d) Grain moisture content at harvest	= 20 %
4. Calculate the amount of commercial product of 2,4-D ethyl ester required to control broad leaf weeds of wheat crop based on information given:

a) Area under wheat	= 1 bigha
b) Active ingredient in commercial 2,4-D EE	= 36%
c) Recommended dose of herbicides	= 500 ml a.i./ha

1 ha = 10000
 10000 = 1
 1 → 10000
 100 → 50000

5. Written viva = 10 marks
6. Practical files = 5 marks

1 ha = 10000 ml
 10000 ml = 1
 1 × 500
 5000
 5000 / 20 = 250
 250 / 20 = 12.5

1 ha = 30 Katha
 30 → 1
 1 → 1/30
 = 0.5