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PG

M.Sc. Semester-I Examination, 2022
(AGRICULTURE) IN AGRONOMY
 PAPER: AGRON 503 (PRACTICAL)

(PRINCIPLES AND PRACTICES OF WEED MANAGEMENT)

Full Marks: 30

Time: 3 Hours

Answer any **TWO** questions from the following:

10 X 2 = 20

1. A. Calculate the amount of atrazine (50% WP) in kg/ha, if rate of application is 1kg a.i./ha.
- B. Calculate the volume of Pendimethalin (30%) for 6000 m² wheat field if, if application rate is 1.0 kg ai/ha.
- C. Calculate the area (m²) and volume of water for the application of 2 litre alachlor @ 2kg a.i./ha. The active ingredients is 50% and optimum volume of water for spray is 500 l/ha. Also calculate the concentration (%) of solution. (2+3+5)
2. Calculate weed control efficiency and weed index in rice crop from the following data:
 - A. Dry weight of grasses, sedges and broad leaf weeds at 70 DAS is 9, 4 and 1.5 g/m², respectively in butachlor treatment.
 - B. Dry weight of grasses, sedges and broad leaf weeds at 70 DAS is 28, 10 and 60 g/m², respectively in weedy condition.
 - C. Grain yield of rice in Butachlor treatment = 35 quintal/ha
 - D. Grain yield of rice in weed free condition = 42 quintal/ha (5+5)
3. Identification of the following samples: (10 x 1)
4. Laboratory note book. 5
5. Viva-voce. 5

