DICAMBA CALIBRATION ANSWER KEY – 7 points per question, 35 points total

1.
$$(\underline{12.8 \text{ oz}})$$
 $(\underline{600 \text{ sq ft}})$ (4 reps) $(\underline{1 \text{ acre}})$ $(\underline{29.5735 \text{ ml}})$ = 20.9 ml (1 acre) (1 rep) $(43,560 \text{ sq ft})$ (1 oz)

2. Select TTI 11003 from approved nozzle list copied from Engenia web site. Participants must measure 15-in. nozzle spacing on sprayer for correct calculation. Note: The third choice (29.7 gal/acre) is correct for #3 tips, but at 20-in. nozzle spacing. Other multiple choices would work for #1 and #1.5 tips, respectively, on 15-in. centers but these nozzles are "off" commercial label. It is assumed that contest participants will not be aware that "research and demonstration" allows use of off-commercial labels.

Gal/acre =
$$\underline{\text{GPM x 5940}}$$
 MPH = $(\underline{4.8 \text{ km/h}})$ = 3.0 mi/h
MPH x Spacing 1.609 km/h per MPH

Gal/acre =
$$(0.3 \text{ gal/min } \times 5940.)$$
 = 39.6 gal/acre (3.0 mi/h x 15 in.)

3.
$$(1h)$$
 (1.609 km) (60 min) (60 sec) $(1mi)$ (100 ft) = 22.9 seconds 4.8 km 1 mi 1 h 1 min 5280 ft

4.
$$(39.6 \text{ gal})$$
 (600 sq ft) (4 reps) (1 acre) (1 acre) (1 rep) (4 sq ft) (4 reps) (4 sq ft) $(4 \text{ sq ft}$

5. 110 ft (on label)