

ANSWER KEY *

2007 National FFA Poultry Evaluation CDE Management Exam

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26. B. 4.80
 $108,775 \text{ pounds} / 4.75 \text{ pounds per bird} = 22,900 \text{ birds}$
 $11 \text{ fans} \times 10,000 \text{ CFM/fan} = 110,000 \text{ CFM total}$
 $110,000 \text{ CFM} / 22,900 \text{ birds} = 4.80 \text{ CFM/bird}$
27. D. 34,400 broilers
 $21.5 \text{ tons} \times 2,000 \text{ pounds/ton} = 43,000 \text{ pounds} / 25\% = 172,000 \text{ pounds of live weight}$
 $172,000 \text{ pounds of live weight} / 5 \text{ pounds per bird} = 34,400 \text{ birds}$
28. A. 8.2%; Acceptable
 $100 \text{ birds/minute} \times 60 \text{ minutes} \times 8 \text{ hours} \times 2 \text{ lines} = 96,000 \text{ birds}$
 $(7,850 / 96,000) \times 100 = 8.2\%$; under 20% is acceptable
29. C. 126 birds/minute
 $140 \text{ feet} \times 1.2 \text{ birds/foot} (= 12/10) = 168 \text{ birds in the tank at once, where they spend 90 sec}$
Therefore, the speed is $168 \text{ birds} / 90 \text{ sec} \times 60 \text{ sec/minute} = 112 \text{ birds/minute}$
Or -
 $140 \text{ feet traveled} / 90 \text{ sec} = 1.56 \text{ feet/sec}$
At 10 inches apart there are 1.2 birds/foot (= 12/10)
 $1.56 \text{ feet/sec} \times 1.2 \text{ birds/foot} = 1.872 \text{ birds/sec} \times 60 \text{ sec/minute} = 112 \text{ birds/minute}$
30. C. 76.2%
 $8,000 \text{ birds} \times 105 \text{ pounds} / 100 \text{ birds} = 8,400 \text{ pounds of feed} \times 3\% \text{ N} = 252 \text{ pounds N}$
 $9,600 \text{ pounds of manure} \times 2\% \text{ N} = 192 \text{ pounds N}$
 $(192 / 252) \times 100 = 76.2\%$