

Q1/A- Benefits of darkness exposure for broiler. (12marks)

B- Talking about advantage and disadvantages for cooling by evaporation from one part of the hall. (13marks)

Q2/A- Fill in the blanks with correct answers

- 1- The negative effects of NH₃ in poultry house,,
- 2- The total area of windows should be from the floor area of poultry house.
- 3- All lighting programs should provide for a long day length such as hours' light and hour dark in the early stages of growth to 7 days of age.
- 4- this type of cooling system is very efficient.
- 5- Types of light sources can be used for poultry.....,
- 6- The factors that affect broiler production that depended on the lighting program,,
- 7- The width of poultry house must not be more than (13marks)

B- Draw cooling by evaporation from the middle of the hall in poultry house. (12marks)

Q3/ In Erbil city If you want to build The poultry House with capacity 15000 birds how many fans, inlets (2500 m³/h capacity)and cooling pad (15 cm Thick) you need if your fans power are (2000 m³/h) for min. The target body weight you want is 3.5kg. The air ventilation for each kg is 6m³/h/kg. (12marks)

Q4 A- If you have a broiler flock number of birds 12000 bird, the body weight of birds in the end of third week 875 g with total feed intake 1120 g and the body weight in the end of fourth week 1443 g with total feed intake 2020 g . Calculate the Feed Conversion Efficiency (FCR) for this flock in fourth week. If you have 25 dead birds in the fourth week. (12marks)

B- Hen flock with capacity 10000 birds. number of egg production in Thirty-third week 57500 egg and the mortality in the end of week 6 birds. Calculate the HD and HH egg production rate. (13marks)

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