Q1/ Write the broiler starter diet by Using the Substitution and Replacement Method according to following specification

**CP = 23% ME = 3000 kcal Lysine = 1.43% Ca = 1.05% Ava. P = 0.5% Na = 0.16-0.23%**

Q2/ If the weight of the bird 42 week old 2200 g with a weekly increase of 150 g and egg weight 45 grams, what is the daily requirement of protein for these birds?

Q3/ If the weight of chicken 2.2 kg , the average of daily increase 16g , the rate of egg weight 55 g , production rate 80% and the breeding in cages. Calculate the net energy for these birds.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Ingredient | Protein % | Energy Kcal/kg | Ca % | P % | Na % | CL | Lysine |
| Soybean meal | 46 % | 2300 | 0.27 | 0.22 | 0.02 | 0.05 | 2.96  |
| Corn | 9 % | 3350 | 0.02 | 0.08 | 0.02 | 0.04 | 0.23 |
| Wheat | 13 % | 3300 | 0.05 | 0.13 | 0.04 | 0.05 | 0.37 |
| Wheat bran | 15 % | 1600 | 0.14 | 0.2 | 0.05 | 0.06 | 0.61 |
| Flour | 12% | 3150 | 0.02 | 0.09 | 0.02 | 0.08 | 0.3 |
| Limestone | 0 | 0 | 34  | 0 | 0 | 0 | 0 |
| MCP | 0 | 0 | 16  | 23  | 0 | 0 | 0 |
| Salt | 0 | 0 | 0 | 0 | 39  | 60 | 0 |
| Premix 5% | 40 % | 2150 | 5.6  | 4.65  | 2.3 | 4  | 3.85 |
| Premix 2.5% | 15.98 % | 4724 | 9.2 | 9.7 | 6.4 | 8.18 | 4.41 |
| oil | 0 | 9000 | 0 | 0 | 0 | 0 | 0 |
| Lysine | 79 | 4760 | 0 | 0 | 0 | 0 | 79  |
| Sunflower meal | 32 | 1550 | 0.21 | 0.14 | 0.08 | 0.02 | 1  |
| Sodium bicarbonate | 0 | 0 | 0 | 0 | 27 | 0 | 0 |