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POULTRY NUTRITION AND PHYSIOLOGY

(Vocational)

Full Marks : 45

Time : 2 hours

The figures in the margin indicate full marks for the questions

- 1.** Write whether the following statements are True or False : 1×5=5
- (a) Birds have chambered stomach like ruminants.
 - (b) About 30% – 40% of total feed consumed are converted into meat and egg.
 - (c) Surgical removal of proventriculus does not impair digestion when properly ground ration is supplied.
 - (d) Carbohydrates are absorbed from small intestine.
 - (e) Fat is liquid and oil is solid at room temperature.

(2)

2. Fill in the blanks with appropriate word(s) : $1 \times 5 = 5$

- (a) The pH of intestinal content is in between _____.
- (b) Absorption of water and salt occurs in the _____.
- (c) Fish meal is rich in _____.
- (d) Shell and cuticle of an egg are formed in _____.
- (e) Encephalomalacia is caused by _____ deficiency.

3. Rewrite the following sentences with correct answer : $1 \times 5 = 5$

- (a) Most of the digestion and absorption of major nutrients are performed in the (small/large) intestine.
- (b) End product of protein digestion (fatty/amino) acids are readily absorbed from intestine.
- (c) Gross energy value of pure fat or oil is about (4.9 kcal/9.4 kcal) per gram.
- (d) Proteins are made up of the combination of (20/30) naturally occurring amino acids in unique manner.
- (e) The (water/crude protein) content in the feed stuffs is the first to be estimated in the laboratory.

(3)

4. Define the following : 1×5=5

- (a) Fertility
- (b) Conjugated protein
- (c) Dispensable amino acids
- (d) Net energy
- (e) Vitamins

5. Draw and label the reproductive system of a hen. 5

6. Write short notes on the following : 2×5=10

- (a) Batch mixer
- (b) Role of protein
- (c) Proximate principle of feed stuff
- (d) Laying cycle
- (e) Broodiness

7. Write in detail about the egg formation of a hen. 10
