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**HS/XII/V/PF/PNP/Paper-V/26**

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**POULTRY NUTRITION AND PHYSIOLOGY**

( Vocational Stream )

**( Theory )**

*Full Marks : 45*

*Time : 2 hours*

*The figures in the margin indicate full marks for the questions*

**1.** Choose the correct answer : 1×10=10

(a) The most critical vitamin(s) in poultry diet is/are

- (i) vitamin A
- (ii) vitamin D
- (iii) riboflavin
- (iv) All of the above

(b) Glandular stomach of poultry is

- (i) crop
- (ii) proventriculus
- (iii) gizzard
- (iv) None of the above

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- (c) The main function of gizzard is
- (i) to store feed temporarily and soften it
  - (ii) to absorb digestible portion of feed
  - (iii) to grind and crush the coarser feed materials
  - (iv) None of the above
- (d) The approximate feed requirement of a layer chicken during its total economic life is
- (i) 3.8 kg
  - (ii) 7.0 kg
  - (iii) 48.0 kg
  - (iv) 70.0 kg
- (e) Special care should be taken to supplement which of the following minerals in poultry diet?
- (i) Calcium
  - (ii) Phosphorus
  - (iii) Manganese
  - (iv) All of the above
- (f) Which system of commercial feeding is/are most popular in India?
- (i) Grain and mash feeding
  - (ii) All mash feedings
  - (iii) All grain feedings
  - (iv) Pellet feeding
- (g) Calcium requirement in layer chicken is
- (i) less than 1%
  - (ii) 1.5%
  - (iii) 3%
  - (iv) None of the above

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- (h) Poultry needs energy to maintain
- (i) body temperature
  - (ii) growth
  - (iii) egg production
  - (iv) All of the above
- (i) Cotton seed meal contains which of the following antinutritional factors?
- (i) Linamarin
  - (ii) Gossypol
  - (iii) Goitrogen
  - (iv) None of the above
- (j) The largest single organ of the body of poultry is
- (i) liver
  - (ii) pancreas
  - (iii) gizzard
  - (iv) gallbladder

2. Fill in the blanks with appropriate words : 1×5=5

- (a) In case of poultry, little digestion takes place until the feed reaches the \_\_\_\_.
- (b) Feed should not be offered more than \_\_\_\_ level of the capacity of feeder to avoid wastage.
- (c) Salt content of poultry feed should be \_\_\_\_ (maximum).
- (d) Moisture content of poultry feed should be \_\_\_\_% (maximum).
- (e) \_\_\_\_ is the best animal protein source in poultry feeds.

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3. Write whether the following statements are True or False :

1×5=5

- (a) Chickens must drink water every 15–20 minutes.
- (b) Feed passes through the digestive tract in chicken in 8 hours when it is empty.
- (c) Height of the waterers should be equal to that of the birds back.
- (d) Caecum is the common passage for digestive, urinary and reproductive systems of poultry.
- (e) Feather meal is not very digestible unless cooked under pressure.

4. Foods are of two types according to their function in the living body. What are those? 2

5. What are the digestive glands of poultry? Write two lines about each of them. 3

6. The variation of energy content of feed depends on some conditions. What are those? Describe in brief. 5

7. Describe the male reproductive system of a fowl with the help of a schematic diagram. 4

8. Write down the parts of alimentary canal of a poultry from mouth to cloaca. 5

9. Mention two sources of each nutrient of the following : 2×3=6

- (a) Carbohydrate
- (b) Protein
- (c) Lipid

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