

M.Sc. (Ag.) Examination, 2019

Semester-II

Animal Science (Poultry)

Course : PSC-513

(Poultry Diseases, Pathological Changes and Diagnosis)

Time : 3 Hours

Full Marks : 50

Questions are of value as indicated in the margin

Question No. 1 is compulsory. Answer **any four** from the rest.

1. A) Choose the correct answer from the given options : 0.5×10=5
- a) Exudative diathesis is caused by the deficiency of i) Vitamin C ii) Vitamin E iii) Vitamin B-complex iv) Vitamin H
 - b) Massachusetts strains of virus under Coronaviridae family outbreaks the disease of i) Infectious bursal disease ii) New castle disease iii) Fowl typhoid iv) None of the above
 - c) Sciatic nerve thickened, striated and lost its glistening appearance is the post mortem lesion of i) Marek's disease ii) Colibacillosis iii) Infectious laryngo tracheitis (ILT) iv) All of the above.
 - d) Doyle's disease is the synonym of i) Omphalitis ii) Infectious coryza iii) Egg drop syndrome (EDS) 76 iv) Ranikhet disease
 - e) Mushy chick disease in poultry is a common problem induced by mismanagement of i) Hatchery operation ii) Brooder farm operation iii) Grower farm operation iv) Layer farm operation
 - f) Immunity obtained following vaccination may be classified as i) Active immunity ii) Passive immunity iii) Innate immunity iv) None of the above
 - g) Thiamin (B1 vitamin) deficiency is associated with i) Star grazing condition ii) Crazy Chick disease iii) Muscular dystrophy iv) Curl-toe paralysis
 - h) selenium is a constituent of _____ cellular enzyme i) Aspartate dehydrogenase ii) Carbonic anhydrase iii) Glutathion peroxidase iv) None of the above
 - i) Cocivac- T^(R) vaccine is prepared with all the pathogenic species of coccidia for i) Chicken ii) Turkey iii) Japanese quail iv) All the above
 - j) Micromelia (skeletal deformities) in chicken is resulted due to the deficiency of i) Copper ii) Manganese iii) Zinc iv) Magnesium

B. Match side A with side B.

0.5×10=5

Sl. No	Side A	Side B
1	Bacillary White Diarrhoea	Vitamin E deficiency
2	Encephalomalacia/Crazy chick disease	Gumboro disease
3	Caecal coccidiosis	C-type retrovirus (RNA virus)
4	Brooder Pneumonia	<i>Pasteurella multocida</i>
5	Essential fatty acid	<i>Salmonella pullorum</i>
6	Mukteswar strain (R ₂ B vaccine)	Linoleic acid
7	Avian leukosis complex	<i>Aspergillus flavus</i>
8	Patchy haemorrhage at the junction of gizzard and proventriculus	Herpes virus (DNA virus)
9	Fowl cholera	Ranikhet disease
10	Duck viral enteritis	<i>Eimeria tenella</i>

2. Write short notes (**any five**) : 2×5=10
- a) Star grazing b) Aflatoxicosis c) Ulcerative enteritis d) Avian Influenza variants
e) Wing rot f) Omphalitis g) Thrush
3. Write in detail about the SPF egg production. Briefly enumerate the various sanitary and disinfection measures strictly followed in poultry incubators. 5+5=10
4. Explain the different leg abnormalities occur in commercial broilers. What are the water quality standards for poultry? Write about the deficiency diseases of vitamin E in poultry. 3+2+5=10
5. What do you mean by Egg Drop Syndrome (EDS) 76? What are the major Post Mortem (PM) lesions you would expect in New Castle Disease/Ranikhet disease? What are the common signs and symptoms of Duck Plague? 3+4+3=10
6. What do you mean by Hjarre's disease? What measures to be recommended to control the common vices in poultry birds? Briefly enumerate the deficiency symptoms of water soluble vitamins in poultry. 2+3+5=10
7. Write about the nuisance of *ecto*-parasites in poultry and their control measures. How does vitamin E and selenium are sparing to minimize the metabolic diseases of poultry? Describe the managerial problems and their control measures in poultry during peak rainy and summer season in West Bengal. 3+2+5=10
8. What is vertical transmission and write down the common poultry diseases belong to this category? How Infectious Bronchitis (IB) and Infectious Laryngo Tracheitis (ILT) are more harmful for layer industry? What measures to be adopted for the prevention and control of a disease outbreak in a poultry farm? 4+2+4=10
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