

M.Sc. Examination, 2018
Semester-II
Animal Science (Poultry)
Course: PSC-513
(Poultry Diseases, Pathological Changes & Diagnosis)

Time: Three Hours

Full Marks: 50

Questions are of value as indicated in the margin.

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

1. Choose the correct one from the given options (**any ten**): 0.5x10=5.0
- a) La Sota, Roakin, B1 are different strains of viruses of which of the following viral diseases
 - i) Gumboro
 - ii) Ranikhet
 - iii) Infectious bronchitis
 - iv) None of these
 - b) Antigenic Shift and antigenic drift are two different types of mutation observed in _____ virus.
 - i) ILT
 - ii) IB
 - iii) IBD
 - iv) Avian Influenza
 - c) Avian Influenza viruses are under the family of _____.
 - i) Herpesviridae
 - ii) Orthomyxoviridae
 - iii) Paramyxoviridae
 - iv) None of these
 - d) For which of the following viral disease of poultry bursa become atrophied
 - i) IBD
 - ii) Ranikhet
 - iii) Duck viral hepatitis
 - iv) Avian influenza
 - e) In Vertical transmission process, the disease causing agent may be transmitted by
 - i) Egg
 - ii) Food
 - iii) Water
 - iv) Droplet
 - f) Name the disease of chicken in which peripheral nerves are affected, visceral tumours are common and the feather from the affected birds is a potent source of infection.
 - i) Marek's Disease
 - ii) Avian Leukosis Complex
 - iii) Newcastle Disease
 - iv) None of these
 - g) Bacillary White diarrhoea is caused by
 - i) *Salmonella gallinerum*
 - ii) *Salmonella pullorum*
 - iii) *Salmonella enteritidis*
 - iv) *E. coli*
 - h) Yolk Sac infection is the commonest cause of mortality in chicks during first week of life is caused mostly by
 - i) *Salmonella*
 - ii) *E. coli*
 - iii) *Paramyxovirus*
 - iv) *Pasteurella*
 - i) Fowl cholera is caused by
 - i) *Pasteurella multocida*
 - ii) *Streptococcus*
 - iii) *Staphylococcus*
 - iv) *E. coli*
 - j) Identify the disease of bird, caused by a bacterial toxin with paralysis of leg, wing, neck and eye lid are prominent symptoms.
 - i) Botulism
 - ii) Marek's disease
 - iii) Omphalitis
 - iv) Fowl cholera
 - k) Immunity resulted from vaccination may be classified under
 - i) Passive immunity
 - ii) Active immunity
 - iii) Innate immunity
 - iv) None of these
 - l) *Mycoplasma gallisepticum* is associated with
 - i) Infectious Coryza
 - ii) Chronic Respiratory Disease
 - iii) Naval infection
 - iv) Cholera

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(2)

- m) Aspergillosis or brooder pneumonia is caused by
i) bacteria ii) fungus
iii) protozoa iv) virus
- n) This species of birds are highly susceptible to aflatoxicosis
i) fowl ii) duck
iii) turkey iv) quail
- o) Coccidiosis is caused by
i) bacteria ii) fungus
iii) protozoa iv) virus

2. Match side A with side B:

0.5x10=5.0

Side A	Side B
1. Encephalomalacia/Crazy chick disease	a) Biotin deficiency
2. Chondrodystrophy, Enlargement of hock joint is caused by the deficiency of this mineral	b) Carbonic anhydrase
3. Osteoporosis	c) Glutathion peroxydase
4. Polyneuritis/ star grazing posture	d) Iron (Fe)
5. Curled toe paralysis	e) Linoleic acid
6. This vitamin is not a dietary essential for poultry birds	f) Linolenic acid
7. Selenium is a constituent of this cellular enzyme	g) Magnesium
8. Fatty liver and kidney syndrome	h) Manganese
9. Haemoglobin contain _____	i) Vit B1 deficiency
10. Essential fatty acid	j) Vit B2 deficiency
	k) Vit D deficiency
	l) Vit E deficiency
	m) Vitamin C

3. Write short notes (*any five*):

2x5=10

- a) Cannibalism e) Probiotics
b) Cage layer fatigue f) Gout in poultry birds
c) Lichi Heart disease g) Common vices in poultry birds
d) Vaccination schedule in layer bird h) Breast blisters
4. Define disease. How can a disease enter a poultry farm? What are the costs involved in a disease outbreak? How can we prevent and control a disease outbreak in a poultry farm? 1+3+2+4=10
5. What are the prerequisites to ensure the good health and maintenance of poultry on farm? List the most important post mortem lesions you would expect to find in broilers infected by virulent Infectious Bursal Disease. What are the major differences between Avian infectious bronchitis and Infectious laryngo-tracheitis. 4+3+3=10
6. Write down the major differences between Marek's disease and Avian Leukosis. Discuss about the control measures for coccidiosis. How will you control parasitic diseases in poultry birds? 3+3+4=10
7. What are the harmful effects of mycotoxicosis in poultry? What measures can be taken to control mycotoxicosis? Briefly describe about the Chronic Respiratory Disease. 3+3+4=10
8. What is Bird Flu? What do you mean by HPAI? Write the Symptoms, Post mortem lesions and control measures of Avian Influenza. 2+2+6=10
9. What is Ascites syndrome? Enumerate the name of the disease caused by *E. coli* infection. Discuss briefly about duck viral enteritis. 2+2+6=10