

ANIMAL HUSBANDRY AND VETERINARY SCIENCE
(Paper II)

Time Allowed : Three Hours

Maximum Marks : 300

QUESTION PAPER SPECIFIC INSTRUCTIONS

(Please read each of the following instructions carefully before attempting questions)

There are EIGHT questions divided in two Sections.

Candidate has to attempt FIVE questions in all.

Question Nos. 1 and 5 are compulsory and out of the remaining, any THREE are to be attempted choosing at least ONE question from each Section.

The number of marks carried by a question/part is indicated against it.

Wherever any assumptions are made for answering a question, they must be clearly indicated.

Word limit in questions, wherever specified, should be adhered to.

SECTION 'A'

1. Write short notes on following in about 150 words each:– **15×4=60**
- (a) MMA syndrome (Farrowing fever), occurrence and clinical manifestations.
 - (b) Pharmacological role of scavenging enzymes in super oxide formation.
 - (c) Extrinsic and Intrinsic factors responsible for the spoilage of meat.
 - (d) Role of various ingredients used in manufacturing ice-cream.
2. (a) Describe the functional anatomy of female fowl in relation to its reproductive system. **30**
- (b) Describe the diagnosis of oesophageal choke and hernia and suggest surgical management in cattle. **30**
3. Give an account of the following:– **20×3=60**
- (a) Reasons for failure of vaccination in animals.
 - (b) Rules observed in conduction of post-mortem examination of vetero-legal case.
 - (c) Role of extrinsic and intrinsic regulation of immunomodulation.
4. (a) Discuss the etiology, pathogenesis, gross lesions, diagnosis and prevention of Gumboro disease in poultry. **30**
- (b) What is meant by meat emulsion? How is it prepared? Discuss the advantages of meat extension. **30**

SECTION 'B'

5. Write short notes on the following in about 150 words each:– **15×4=60**
- (a) Platform tests for milk quality.
 - (b) Techniques adopted in the investigation of neurological disorders.
 - (c) Modified Atmosphere Packaging (MAP) of meat and meat products.
 - (d) Role of anorectic agents in animal growth and production.
6. (a) Discuss epidemiology, etiology, post-mortem findings, diagnosis and prevention of avian influenza. **30**

	(b)	What is meant by thermostabilisation and oil treatment techniques of egg preservation?	30
7.	(a)	Comment on the synthesis, breakdown, occurrence and pharmacological actions of histamine on respiration and blood pressure of rabbit and dog, and on allergic reactions.	20
	(b)	Describe the provisions of Glanders and Farcy Act, 1899.	15
	(c)	Discuss the principles of heat exchange and process of High Temperature-Short Time (HTST) method of milk pasteurization including the functions of each component of HTST equipment.	25
8.	(a)	Describe various modern gadgets and biochemical tests used in the diagnosis of animal diseases.	30
	(b)	Discuss etiology, pathogenesis, clinical findings, treatment and control of black quarter disease in cattle.	30