

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:
12×5=60
 - (a) Control of bovine tuberculosis and reasons for its failure.
 - (b) Scientific disposal of animal carcasses.
 - (c) Biomechanics of cortical and trabecular bones in cattle.
 - (d) Anti cancer drugs in the treatment of canine neoplasms.
 - (e) Diagnosis and treatment of ruminal impaction in cattle.
2. Discuss or describe the following:
15×4=60
 - (a) Procedure for processing of tissues for paraffin sectioning.
 - (b) Pharmacology of appetite stimulant, emetics and anti-emetics drugs.
 - (c) Hygienic requirements and standards for animal drinking water.
 - (d) Control strategy for foot and mouth disease in India along with its limitations.
3. Give a detailed account on:
15×4=60
 - (a) Surgical sites for exploratory laparotomy and caesarian section.
 - (b) Effects of climate on animal production.
 - (c) Drugs affecting renal functions and fluid electrolyte balance.
 - (d) Collection of laboratory material for confirmation of rabies, theileriasis and New Castle disease.
4. Discuss at length:
15×4=60
 - (a) Meaning of biosecurity and biosecurity measures necessary at cattle and poultry farms.
 - (b) Etiology, pathogenesis, clinical signs, treatment and control of haemorrhagic septicemia in buffalo.
 - (c) Gross anatomy of brain of dog.
 - (d) Classification and the chemical constituents of poisonous plants causing poisoning in Indian cattle.

SECTION 'B'

5. Write short notes on following in about 150 words each: **12×5=60**
- (a) Humane slaughter methods and application of HACCP, GMP and ISO 9000 in meat processing industries.
 - (b) Probiotics and their usage in milk products.
 - (c) Bacteriological, physical, chemical and nutritional effects of processing on milk.
 - (d) OIE guidelines for control of bird flu in India.
 - (e) Animal origin food products and food poisoning in man.
6. Discuss or describe the following: **20×3=60**
- (a) Meat adulteration and techniques to differentiate meat from different species.
 - (b) Veterolegal aspects of post mortem examinations in animals.
 - (c) Reverse osmosis, ultra filtration, nano filtration and micro filtration technology in milk processing.
7. Give a detailed account on: **20×3=60**
- (a) Nutritive values of emu meat in comparison to chicken and goat meat.
 - (b) Methodology of epidemiological investigations for disease forecasting.
 - (c) Fortified, reconstituted and flavoured milks.
8. Discuss at length: **20×3=60**
- (a) Animal diseases of public health significance and need for one health programme.
 - (b) Physico-chemical characteristics of hide and skin and factors affecting its quality.
 - (c) Total quality management in processing of milk products.