

ANIMAL HUSBANDRY AND VETERINARY SCIENCE
(Paper I)

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. Describe in about 200 words the inter-relationship of any three of the following:

20×3=60

 - (a) Selenium, Sulphur and Vitamin E
 - (b) Calcium, Phosphorus and Vitamin D
 - (c) Iron, Copper and Molybdenum
 - (d) Nitrogen, Amino acid and Protein
2. How is feed energy partitioned within animal body? Explain, how energy retention is measured by carbon and nitrogen studies. **60**
3. Describe the female reproductive system giving names and functions of different organs. Draw a labelled diagram of the reproductive system of she-buffalo. **60**
4. What is cryopreservation of semen? Describe its principle and technique. **60**

SECTION 'B'

5. Write short notes on any three of the following in about 200 words each:

20×3=60

 - (a) Quantitative vs. Qualitative traits
 - (b) Mitosis vs. Meiosis
 - (c) Sexlinked vs. Sexlimited traits
 - (d) Correlation vs. Regression coefficient
6. Enumerate various types of essential records to be maintained by a commercial dairy farm and justify their maintenance in estimating and controlling the cost of milk production. **60**
7. Describe the management of livestock during flood and thereafter. **60**
8. How can progress in selection be estimated prior to obtaining the progeny of the next generation? Discuss the forces that are responsible for correlated response. **60**