Civil Services (Main) Examination, 2006

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. Write short notes on any three of the following in about 200 words each: **20×3=60**

- **(a)** Current issues of Indian feed industry
- **(b)** Hormones as growth stimulating substances
- **(c)** Milk ejection
- **(d)** Recent methods of oestrus detection in cows

2. Using current research findings, discuss in detail the endocrine regulation of oestrus cycle. How can this knowledge be used to improve livestock productivity? **60**

3. Discuss the possible reasons for poor conception following artificial insemination, especially with frozen semen and suggest measures to improve conception rate. **60**

4. What is least cost ration? What is its significance under Indian conditions? Write the procedure of developing the least cost ration. **60**

SECTION 'B'

5. Write short notes on any three of the following in about 200 words each: **20×3=60**

- **(a)** Care of neonate
- **(b)** Mosaicism and Chimerism
- **(c)** Recombinant DNA technology
- **(d)** Heterosis

6. Discuss merits and demerits of various methods of selection for livestock improvement in Indian context. **60**

7. Define outbreeding. Discuss various methods of outbreeding. Which is the most suitable method of outbreeding for the large Indian cattle population? **60**

8. Discuss various factors which can improve efficiency of dairy animals at a commercial dairy farm having 200 adult Murrah buffaloes in semi-arid Indian climate. **60**

English version compiled from published transcriptions and cross-checked across sources; not a facsimile of the official UPSC question paper.

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