

I.F.S. EXAM-2016

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

PAPER—II

Time Allowed : Three Hours

Maximum Marks : 200

**QUESTION PAPER SPECIFIC INSTRUCTIONS**

**Please read each of the following instructions carefully  
before attempting questions**

There are EIGHT questions in all, out of which FIVE are to be attempted.

Question Nos. 1 and 5 are compulsory. Out of the remaining SIX questions, THREE are to be attempted selecting at least ONE question from each of the two Sections A and B.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it.

Answers must be written in ENGLISH only.

Neat sketches may be drawn, wherever required.

## SECTION—A

1. Write short notes on the following : 8×5=40
- (a) Socioeconomic impact of zoonotic diseases
  - (b) Management of bovine lactation tetany
  - (c) Difference between scanning and transmission electron microscopy, and their applications in histopathology
  - (d) Acute phase proteins and their role in disease
  - (e) Japanese encephalitis and its impact on human health
2. (a) Explain why many drugs exhibit volumes of distribution far in excess of total body water. 15
- (b) How are autacoids different from traditional hormones? Write about the pharmacological role of lipid-derived autacoids. 15
- (c) Explain the reasons why the fluoroquinolones are widely used as anti-microbials. 10
3. (a) What is the structure and function of respiratory membrane? Explain oxygen-haemoglobin dissociation curve in gaseous exchange of pulmonary system. 15
- (b) "Kidney is the third line of defense for acid-base balance in the body." Justify. 15
- (c) CNS ischemic response is called 'last ditch stand' pressure control mechanism of BP regulation. Explain. 10
4. (a) What are emerging and reemerging zoonoses? Explain the challenges and opportunities in their prevention and control. 15
- (b) How are observational studies useful in epidemiological investigation? Explain their application in the study of chronic/neoplastic diseases. 15
- (c) What is eutrophication of lakes and how does it affect the terrestrial/aquatic animal health? 10



