

**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**

- |   |        |
|---|--------|
| Q. 1. Write short notes on the following :  | 8×5=40 |
| Q. 1(a) Glands producing reproductive hormones in bovines.  | 8      |
| Q. 1(b) Role of biochemical tests in the diagnosis of diseases in cattle.   | 8      |
| Q. 1(c) Effect of environmental pollution on animal health.   | 8      |
| Q. 1(d) Importance of having disease free zones.  | 8      |
| Q. 1(e) Role of animal welfare in the present day context.  | 8      |
| Q. 2(a) Explain the germ layer formation and organogenesis.   | 20     |
| Q. 2(b) Discuss the application of stem cells in the treatment of different diseases.   | 20     |
| Q. 3(a) Explain the practices of immunization of livestock and poultry against various diseases.  | 20     |
| Q. 3(b) Discuss the effect of metabolic disorders on animal performance. Suggest the lines of treatment of different metabolic disorders. | 20     |

- Q. 4(a) Explain the zoonotic diseases which are occupational hazards. 20  
Q. 4(b) Discuss the 'one health' concept in detail. 20

**SECTION—B**

- Q. 5. Write short notes on the following : 8×5=40
- Q. 5(a) Procurement of milk by dairy cooperatives. 8  
Q. 5(b) Indigenous milk products. 8  
Q. 5(c) Nutritive value of red meat Vs. white meat. 8  
Q. 5(d) Role of Food Safety and Standards Authority of India in quality assurance. 8  
Q. 5(e) Technology assessment and refinement. 8
- Q. 6(a) Raw milk quality has an important bearing on the quality of finished products. Discuss. 20  
Q. 6(b) Explain the various by-products of dairy industry and their utilization. 20
- Q. 7(a) Explain the meat-eating habits of Indian population. 20  
Q. 7(b) Discuss the reasons for alternate meats not gaining consumer acceptance. 20
- Q. 8(a) Research without extension is a hobby. Extension without research is a folly. Discuss. 20  
Q. 8(b) Explain the programmes for self-employment of rural youth and women in animal husbandry. 20