

ANIMAL HUSBANDRY AND
VETERINARY SCIENCE

FIRST PAPER

Full Marks : 200

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. What are the factors responsible for successful economic dairy farming? Discuss the importance of herd size and level of milk yield in relation to farm area in economic dairy farm planning. 20
2. Name the different agro-climatic zones as per Planning Commission of India. Which of these zones are considered to be most suitable for cattle and buffalo farming? Explain the reasons. 20
3. Discuss the care and management of livestock during different types of natural calamities, particularly during flood, drought and earthquakes. 20

4. Define the term 'pasteurization of milk'. What are the objectives of pasteurization? Name the different methods of pasteurization. Which of these methods are commonly used in India? 20

5. Discuss the contribution of artificial insemination (AI) in the development of dairy industry in India. Describe in brief the merits and demerits of AI. 20

6. What are the properties of an ideal semen extender used for freezing of semen? Write in detail the care to be taken in handling of frozen semen for improving the conception rate. 20

7. Define weaning. What should be the standard age and weight in case of piglets? Briefly discuss the care and management of piglets from birth to age of weaning. 20

8. Describe two methods for preservation of fodder to be used during scarcity. Discuss the merits and demerits of each of the methods as far as the nutritive values are concerned. 20

9. Discuss in brief about the activities that take place in an organized slaughter house. What is the role of a veterinarian as Meat Inspector for production of sound/wholesome meat? Highlights the importance of utilization of slaughter house by-products for value addition. 20
10. Write short notes on any *five* of the following : 4×5=20
- (a) Dry cow therapy
 - (b) Herd immunity
 - (c) Quarantine
 - (d) Trace minerals
 - (e) Fumigation
 - (f) Transovarian transmission
 - (g) Balanced ration
