

<b>CSM – 8/19</b>
<b>Animal Husbandry &amp; Veterinary Science</b>
<b>Paper – I</b>

*Time : 3 hours*

*Full Marks : 300*

*The figures in the right-hand margin indicate marks.*

*Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and any **three** of the remaining questions, selecting at least **one** from each Section.*

### **SECTION – A**

1. Write brief notes on any **three** of the following in not more than **150** words each :       $20 \times 3 = 60$ 
  - (a) Herd recording and its advantages.
  - (b) Essential qualities of a good extender.
  - (c) Explain the importance rumen bypass nutrients in ruminant nutrition.

- (d) Factors affecting pre and post natal growth.
2. (a) Discuss about the general care and management of milch animals for increasing efficiency of milk production. 30
- (b) Explain the measures to be taken for improving success rate of artificial insemination under field conditions. 30
3. (a) Discuss about the feeding of high yielding milch animals. 30
- (b) Explain about the feeding and management of sheep and goats under extensive, semi-intensive and intensive systems of production. 30
4. (a) What are the additives and chemical preservatives used in silage making and discuss their role for good quality silage making? 30
- (b) Discuss about the gross and microscopic examination of ejaculated semen quality evaluation. 30

## SECTION – B

5. Write short notes on any **three** of the following in not more than **150** words each :  $20 \times 3 = 60$
- (a) Classify chromosomal aberration and explain in detail regarding variation in number of chromosomes.
  - (b) Write about the physiological responses of animals to heat stress.
  - (c) Suggest fodder cultivation practices for supply of greens throughout the year for a dairy farm.
  - (d) Explain about glyceranization.
6. (a) Discuss about the parameters used to determine reproductive efficiency in cattle and the strategies for optimizing reproductive efficiency. 30
- (b) Explain about selection differential and enumerate the factors affecting it. 30

7. (a) Discuss about the feeding of poultry during thermal stress. 30
- (b) Explain about the feeding of pigs during suckling, grower, finisher, gestation and lactation stages. 30
8. (a) Write about the various aids to selection in farm animals along with their merits and demerits. 30
- (b) Write about the role of various hormones in galactopoiesis. 30

