

CSM – 8/21
Animal Husbandry & Veterinary Science
Paper – I

*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 :

20×3 = 60

- (a) Describe the measures of feed energy and their applications.
- (b) Write, in detail, about feeding standards in livestock.

Adda247

# Test Prime

**ALL EXAMS, ONE SUBSCRIPTION**



**1,00,000+**  
Mock Tests



**Personalised**  
Report Card



**Unlimited**  
Re-Attempt



**600+**  
Exam Covered



**25,000+** Previous  
Year Papers



**500%**  
Refund



**ATTEMPT FREE MOCK NOW**

- (c) What are various preventive measures to control heat stress in pigs ?
  - (d) Explain "Seasonal Breeding" in livestock.
2. (a) Briefly mention thermal adaptation in poultry. 30
- (b) What are the hereditary effects on animal growth ? 30
3. (a) Describe, in detail, about the important protein sources of ingredients in livestock and poultry feed formulation.
- (b) Give a note on significance of structural and functional aspects of spermatozoa. 30
4. (a) Importance of calorie / protein ratio in poultry feed. 20
- (b) How does the nutritional status of birds alter the meat quality ? 20
- (c) How will you conserve the green fodder ?  
Write, in detail, about quality silage production. 20

## SECTION – B

5. Write short notes on any **three** of the following :

20×3 = 60

- (a) What do you mean by progeny testing ? How and why progeny testing is carried out ?
- (b) Differentiate specialised farming and mixed farming.
- (c) What is inbreeding ? Write about the genetic and phenotypic effects of inbreeding ?
- (d) How will you determine the age of bovines in the farmers' holdings ? Explain with diagram/ simple line drawing.

6. (a) Describe body condition scoring in small ruminants. Also, discuss about the mating systems followed in sheep and goat rearing.

30

- (b) Explain crossbreeding in cattle to improve milk production traits.

30

7. (a) Enumerate the economic traits of cattle and buffaloes ? Describe the production and

- reproduction traits. Explain briefly how dairy cows are selected ? 30
- (b) Mention the bovine breeding policies adopted in the country and your state. 30
8. (a) How open nucleus breeding system is operated in genetic improvement of sheep and goats. 20
- (b) What do you mean by genetic gain ? How the gain in selection is influenced by various factors ? 20
- (c) What is the difference between conservation and preservation ? Why does the native germplasm need to be conserved ? 20

Adda247