

CSM : 15

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

PAPER - I

Time Allowed : 3 hours

Full Marks : 100

Marks for each question is indicated against it.

Attempt any 5 (five) questions taking not more than 3 (three) questions from each Part.

PART A

1. Write a note on the partitioning of energy within the animal and explain the concepts of gross energy, digestible energy, metabolisable energy and net energy. **(8+3+3+3+3+=20)**
2. What are the methods of conserving fodder? Give the advantages and disadvantages with respect to different crops. **(10+10=20)**
3. Write about the circulatory system in mammary gland of a crossbred cow. Describe milk biosynthesis and hormonal regulation of lactation. **(10+10=20)**
4. What are the methods of preservation of semen? Discuss the factors affecting semen quality. **(10+10=20)**

PART B

5. Mention the feeding regime followed for weaning pigs (creep and starter rations) and grower pigs (12 to 50kg body weight). **(10+10=20)**
6. Explain the role of heritability in Animal breeding along with its advantages. How do qualitative traits differ from quantitative traits? **(10+10=20)**
7. Write short notes on: **(4×5=20)**
 - (a) Hardy Weinberg Law
 - (b) Recombinant DNA technology
 - (c) Forces changing gene frequency
 - (d) Mutation
8. Discuss about major constraints in transfer of technology in rural India for livestock and poultry production. **(20)**

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