

2016

ANIMAL HUSBANDRY AND VETERINARY SCIENCE PAPER-I

Time Allowed : 3 Hours

Full Marks : 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answers may be written either in English or in Bengali but all answers must be in one the same language.

Group-A

Answer any three questions

1. a) What are the general and metabolic functions of minerals? Write the factors affecting mineral requirements in animals.
- b) What are the physical forms of poultry feed? What are advantages of pellet feeding?
- c) Why some vitamins are dietary and others are metabolically essential?

$$(12 + 8) + (3 + 10) + 7 = 40$$

2. a) What is sterilized milk? Write a flow diagram of manufacture of plain sterilized milk?
- b) What is lacto-peroxidase (LP) system of milk preservation?
- c) What is rigor mortis? Why it is important in the process for conversion of muscle to meat?

$$(5+10) + 12 + (5+8) = 40$$

3. a) What is dystocia? What are the common causes of dystocia in cows?
- b) Write in brief about the infectious and non-infectious causes of abortion in dairy cattle.
- c) What is freemartin?

$$(4+10) + (10+10) + 6 = 40$$

- a) Write Principles and Practices in Dairy Cattle Production Management in Tropical Climate.
- b) Discuss Technological Advances in Goat Production and Management.
- c) What are the common reasons for culling cows from the herd?

$$20+12+8=40$$

P. T. O.

5 .a) Define inbreeding. Explain and illustrate with suitable examples the genetic and phenotypic consequences of inbreeding.

b) What are the application and disadvantages of inbreeding of inbreeding?

c) Discuss the possible ways to minimise inbreeding.

$$(4+16)+12+8=40$$

Group-B

6. Answer any four of the followings:

$$(12 \times 4) = 48$$

a) Differentiate between the formal education and extension education.

b) Government sponsored dairy development schemes.

c) Advantages of processing of feeds and forages.

d) Standardization and grading of products.

e) "India is gifted with diverse genetic livestock population"- Explain the statement.

f) Backyard poultry farming for rural income generation

7. Answer any four of the followings:

$$(8 \times 4) = 32$$

a) Beak trimming in layer birds.

b) Feeding of livestock during scarcity.

c) "The bull is more than half of the herd"-Justify the statement.

d) Quality of organic milk vis-a vis conventional milk.

e) Negative aspects of using additives in animal feed.

f) Lethal effect of freezing.