CSM – 8 / 15
Animal Husbandry and 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 **three** of the remaining questions, selecting at least **one** from each Section.*

Section – A

1. Answer brief notes on any **three** of the following in not more than **150** words each :   20×3 = 60

   (a) Measures of growth in animals and factors affecting the Growth.

   (b) Methods of controlling climatic stress on dairy cattle and buffaloes.

(c) Role of hormones and growth stimulating substances in livestock and Poultry production

(d) Feeding strategies of dairy cattle for optimum milk production.

2. (a) Discuss about the nutrients requirement and feed formulation with reference to poultry for meat and egg production.   30

(b) Write about the Nutrients requirement and feeding of calves upto 6 months of age.   30

3. (a) Describe about the different stages of estrus in dairy cattle, Signs of estrus and correct time of AI for optimum conception.   30

(b) Write, in brief, about the mechanism of adaptation in animals and the factors affecting adaptation.   30

4. (a) Write about the Hormonal Control of mammary development and milk secretion in dairy animals.   30

(b) Write, in detail, about the factors affecting the quality and quantity of semen production in bulls.   30

Section – B

5. Answer brief notes on any **three** of the following in not more than **150** words each : 20×3 = 60

   (a) Discuss about the dairy farm under mixed farming and specialized farming.

   (b) Factors affecting quantity and quality of the milk.

   (c) Feeding and management of animals under natural calamities.

   (d) Points to be considered while selecting site for construction of dairy farm.

6. (a) Write, in detail, about the plan for supply of green fodder throughout the year for dairy cattle and buffalo feeding. 30

   (b) Discuss about the Nutrient requirement and feeding of small ruminants for meat production. 30

7. (a) Explain, in detail, about the Recombinant DNA technology. 30

(b) Write about breeding value and estimation of breeding value. 30

8. (a) What is Inbreeding and methods of estimation of inbreeding coefficient. 30

(b) Explain, in detail, about ONBS (Open Nucleus Breeding System). 30

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