CSM – 8/20

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) Restricted feeding in poultry

   (b) Feed energy partitioning in the animal body

   (c) Hormonal control of mammary gland development

(d) Factors affecting oestrus detection in a bovine herd

2. (a) Enumerate salient features of bypass nutrients and advantages of bypass fat in the ration of high producing dairy animals. 30

(b) What is adaptation ? What are different types of adaptation ? Describe the morphological, anatomical and functional adaptations of domestic animals. 30

3. (a) Discuss anoestrus, clinical findings and its management. 30

(b) Discuss functions of calcium and phosphorus with essentiality of Vitamin-D for their utilization in animals. 30

4. (a) Describe different methods to determine protein requirement for maintenance in ruminants. 30

(b) Describe puerperium with changes taking place during puerperium. 30

SECTION – B

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

20×3 = 60

(a) Feeding regime for young and mature pigs

(b) Multiple alleles

(c) Field Progent Testing Programme

(d) Grading up

6. (a) Describe different factors that determine the efficiency of farm animals. 30

(b) What are unconventional feeds and fodders ? Describe unconventional feeds and fodders that can be used for feeding animals during draught condition with their limiting factors. 30

7. (a) State law of H. W. equilibrium. Enlist forces that influence H. W equilibrium. Describe mutation as a force changing the gene frequency. 30

(b) What is selection ? Enlist various aids to selections. Describe family selection. 30

8. (a) Prepare fodder calendar for providing 6000 kg green fodder daily. 30

(b) Discuss management of poultry during winter and summer season. 30