CSM - 8/18 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 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 in not more than 150 words each: 20×3 = 60
 - (a) Chromosal aberration

(Turn over)

- (b) Organization providing extension services in India
- (c) Use of recombinant DNA technology in animal production
- (d) Enumerate the economic dairy farming in India
- (e) Feeding guideline of high yielding dairy cow
- What do you mean by Electrocardiogram?
 Discuss, in brief, about cardiac cycle and heartbeat.
 10+50 = 60
- 3. What are the feeding habits of sheep and goat?
 What are the differences in habit of feeding between sheep and fodder for goats?

30+30 = 60

4. Write the nutrient requirements of piglet, grower, finisher, pregnant and lactating pig. Write the one each ration formulation and indifferences among other stage of pig.
40+20 = 60

- 5. Write short notes on any three of the following in not more than 150 words each: $20 \times 3 = 60$
 - (a) Write the general functions of blood in a cow
 - (b) Humoral and cell mediated immunity
 - (c) Repeatability of genetic traits and measurement
 - (d) Humoral regulation of ovulation in cow
 - (e) Role of Pancreas in animal body
- 6. What are the methods to improve the nutritive value of crop residues? Discuss feeding strategic of animal feeding during scarcity period.
- 7. What are the occasionally beneficial trace elements? Give examples. Discuss the interaction among Selenium, Vitamin E and Sulphur. What is active transport? Discuss the transport system involving Sodium, Potassium A-T-O-pase pump. Name the

elements involved in functions of insulin and discuss the role of insulin in controlling glucose holestasis. Discuss. 20+20+20 = 60

Develop a practical and economic ration for a crossbred dairy cow weighting 350 kg and producing 20 kg milk per day with 3.5% fat with locally available feed ingredients which are the feed additives, will be used in this ration and how it acts on in animal system.