

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

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1. Write brief notes on any **three** of the following in
not more than **150** words each : $20 \times 3 = 60$
(a) Chromosomal aberration

- (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

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2. What do you mean by Electrocardiogram ?
Discuss, in brief, about cardiac cycle and heart-beat. 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

SECTION - B

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

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(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. $30+30 = 60$

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 homeostasis. Discuss. $20+20+20 = 60$

8. 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. $30+30 = 60$

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