

Note : Answer these questions .

Q1/ answer these question. (10 marks).

1_ define these items. (Choose 4). WMD, roughage, myoglobin, metabolizable energy.

2_ in a digestibility trial we used more than one animal. (3 marks).

3_ some vitamins are metabolic essentials but not dietary essentials for certain species. (3 marks).

Q2/ answer these question. (Choose 2). (8 marks).

1_ draw & explain Iron cycle in animal body.

2_ we should give the food to animal in trial for at least a week before collection of feces begin.

3_ if a lactating cow eats 20 kg of grass which contain 50% DM and excreted 2.5kg feces which also contain 50% of DM, what's the digestibility coefficient for this grass.

Q3/ fill out these blanks. (Choose 12). (12 marks).

1_ fattening animal store energy in -----.

2_ the energy loss in urine is present in nitrogen –containing substances such as ----- and the combustible gases lost from rumen consist entirely of-----.

3_ trace element are usually expressed in terms of mg/kg which equivalent to ----- rather than percentage.

4_ ----- is the main storage site for copper.

5_ vitamin classification depends not on ----- but on -----.

6_ in ----- of age ruminal flora have developed to synthesized vit B.

7_ in mammals, thiamin is essential in two oxidation decarboxylation reaction 1 in ----- and 2 in -----.

8_ the heat increment may be expressed in absolute terms -----.

9_ there are a variety of deficiency symptoms in copper , -----, -----, -----, -----.

Good Luck

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