

ANIMAL NUTRITION



Instructions:

Choose the most appropriate answer for the given question.

To generate a new set of questions, click on 'Print'.

QUESTION-1

Which of the following is not a fraction in proximate analysis of foods

- a) Moisture
- b) Ash
- c) Crude protein
- d) Fats

Answer:::

QUESTION-2

A 300 kg steer is required to grow at a rate of 0.77 kg/day on a diet consisting of 3.0 kg hay (DM 890 g/kg; ME 8.0 MJ/kg DM) and an unknown quantity of concentrate (DM 900 g/kg; ME 14.0 MJ/kg DM). Determine the total energy required (MJ NE/day). Efficiency of metabolisable energy utilisation by ruminants for maintenance is given by $0.35 \times \text{metabolisability} + 0.503$. Efficiency of metabolisable energy utilisation by ruminants for growth is given by $0.78 \times \text{metabolisability} + 0.006$.

- a) 23.0
- b) 34.5
- c) 43.5
- d) 11.5

Answer:::

QUESTION-3

A 600 kg cow is required to produce 30 l of milk per day (40 g/kg fat and 32 g/kg protein) on a ration consisting of grass silage (DM 250 g/kg; ME 10.5 MJ/kg DM) and dairy concentrate (DM 860 g/kg; ME 13.0 MJ/kg DM). It is anticipated that the cow will consume 18.0 kg DM/day. The efficiencies of utilisation of metabolisable energy for maintenance and milk production are 0.72 and 0.62, respectively. The NE requirement for maintenance is 41.0 MJ/day. ME concentration of the ration (MJ/kg DM) is

- a) 12.5 MJ/day
- b) 11.6 MJ/day
- c) 76.9 MJ/day
- d) 34.0 MJ/day

Answer:::

QUESTION-4

Which of the following terms is not used to call by pass protein?

- a) Escape protein
- b) Rumen undegradable protein
- c) Undegradable intake protein
- d) Intake protein

Answer:::

QUESTION-5

Which of the following statements is incorrect

- a) Some of the structural material provided by macronutrients can be used to generate energy internally
- b) Molecules of fats consist of hydrogen, oxygen, and carbon atoms
- c) Molecules of proteins consist of nitrogen in addition to hydrogen, oxygen, and carbon atoms
- d) Molecules of carbohydrates consist of nitrogen, oxygen, and carbon atoms

Answer:::

QUESTION-6

Which of the following is true about crude protein in a feed?

- a) Lactation
- b) Maintenances, growth, and lactation
- c) Maintenances
- d) Growth

Answer:::

QUESTION-7

Which of the following statements is incorrect

- a) Macronutrients provide energy
- b) Macronutrients provide structural material
- c) Water is a macronutrient
- d) Molecules of carbohydrates consist of hydrogen, oxygen, and

carbon atoms

Answer:::

QUESTION-8

A group of dairy cows were producing 35 l/day of milk containing 3.2 MJ/l. If these cows had a dietary ME intake available for milk production of....., then the efficiency of ME utilisation for lactation would be 0.622.

- a) 225 MJ/day
- b) 250 MJ/day
- c) 175 MJ/day
- d) 200 MJ/day

Answer:::

QUESTION-9

Which of the following is not a macronutrient

- a) Fats
- b) Proteins
- c) Carbohydrates
- d) Water

Answer:::

QUESTION-10

.....are the major inorganic components of animals

- a) phosphorus and potassium
- b) Calcium and phosphorus
- c) potassium and silicon
- d) Calcium and potassium

Answer:::

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----Answer Sheet----

1) Fats

2) 34.5

3) 11.6 MJ/day

4) Intake protein

5) Molecules of carbohydrates consist of nitrogen , oxygen, and carbon atoms

6) Maintenances, growth, and lactation

7) Water is a macronutrient

8) 175 MJ/day

9) Water

10) Calcium and phosphorus