**Q1/ - fill blanks with correct word (20) marks:**

1. Ration: is a daily supply of feed during a day of ………………… hours.
2. Production ration: it is given to animal for production ……………. , ……………. , …………, ………….

 or work in farm

1. Nutritional Content of Feed Materials: It is necessary to know the nutritional content of the …………. that are considered to be used in the …………… .
2. The main purpose of processing feeds is to prepare it for better…………….. .
3. There is a positive correlation between the physical capacity of the ………. and feed intake

**Q2/choose one correct answer (20) marks:**

1. The VFA (Volatile fatty acid are acetic acid, butyric acid and propanoic acid) produced by rumen microbes represents up to ………… of the energy.

 (A- 70 % B- 75 % C- 60 % )

1. Nutrient deficiencies that reduce the activities of rumen microorganisms are liable to reduce……….. .

 ( A- feed intake B- food intake C- intake ).

1. The food intake in high yielding lactating cows starts to decline at the ambient temperatures of………… .

 ( A- 25–26°C B-25–27°C C- 24–25°C ).

1. Intake by cattle may not be greatly affected when the environmental temperature reaches up to ………….. .

 (A-17°C B--18°C C- -16°C)

1. to convert nitrogen in feeds to a crude protein the formula is:…………. .

( A- N × 5.25 B- N × 6.25 C- N × 7.25 )

**Q3/write true and false for the following answer (25) marks:**

1. Feed Costs: the feed included in the ration is also important in terms of cost.
2. The carbohydrate part of plant feedstuffs contains between 80 to 80 % of the dry matter of forages and cereal grains.
3. Steam-rolling: Steam-rolling - Grains are subjected to steam for a short period (3 to 5 min to soften the seed.
4. lactating cows can consume 45% more feed than their non-pregnant and non-lactating.
5. Feeding is a complex activity that includes such actions as the search for food.

**Q4- (15 Marks per each Answer)**

1. Physical fill can be described on the basis of three main parts

**B -**What about Factors Affecting Feed Intake in Ruminants.