

[Question of Term Final Examination]



Khulna University

School: Life Science Discipline: Agrotechnology Program: MS in Animal Nutrition

Year: MS 1st Term: 2nd Examination Year: 2025 Session: 2024-2025

Course Code: 0811 08 AN 5201 Course Title: Feed Processing and Evaluation

Total Marks: 60

Time: 03

Credit: 03

- The FIGURES in the right margin indicate full marks. The questions are of equal value.
- Use separate sheets for each section.
- Draw and label wherever necessary.

Question No.	Question Description	Marks
Section- A		
There are four questions in this section. Answer any three questions.		
1.	(a) Define concentrate feeds and state their importance in livestock nutrition. (L1, CLO1)	2
	(b) Explain the different dry processing methods of cereal grains used in animal feeding. (L2, CLO1)	4
	(c) Analyze how different grain wet processing methods influence nutrient availability and feed quality. (L4, CLO1)	4
2.	(a) Explain the storage methods of protein feeds. (L1, CLO1)	3
	(b) Describe the effects of heat, fermentation, and chemical treatments on the digestibility and amino acid composition of protein feeds. (L2, CLO1)	3
	(c) Analyze how the protein changes alter amino acid availability and overall feed quality. (L4, CLO1)	4
3.	(a) Describe four commonly used methods for processing fresh roughages before feeding livestock. (L1, CLO1)	3
	(b) Explain why mechanical chopping of roughages improves intake and digestibility in ruminants. (L2, CLO2)	2
	(c) Explain the different anti-nutritional factors or substances depressing the digestion or metabolic utilization of proteins. (L3, CLO2)	5
4.	(a) State the objectives and basic principles of urea treatment for cereal straws and stovers. (L1, CLO2)	3
	(b) Explain the roles of urea concentration, incubation period, and storage conditions in improving the digestibility and nitrogen enrichment of treated roughages. (L2, CLO2)	3
	(c) Evaluate the economic and practical factors influencing the adoption of urea treatment by smallholder farmers in developing countries. (L5, CLO2)	4

*Levels of Bloom's cognitive domain: [L1=Remember; L2=Understand; L3=Apply; L4=Analyze; L5=Evaluate; L6=Create]