By the end of this unit you should be able to;

KA 1.2 a

1. Define the terms: genome and proteome.
2. Explain why the proteome is larger than the genome.
3. State that not all genes are expressed as proteins in a particular cell type.
4. Describe how the set of proteins expressed by a cell can vary over time and under different conditions.

KA 1.2 b

1. To explain why eukaryotic cells have a system of internal membranes.
2. State the functions of the endoplasmic reticulum, golgi apparatus, lysosomes and vesicles.
3. Describe the role of the Smooth and Rough ERs in the synthesis of membrane components (proteins and lipids).
4. Describe the movement of proteins between membranes noting the role of the golgi apparatus and vesicles
5. State the role of the Golgi apparatus in the post-translational modification of proteins.
6. State the steps in the pathway of secreted proteins out of the cell.
7. State the proteolytic cleavage is another example of a PTM and relate this to activity of digestive enzymes