QUIZ 1 BSB3583

1. Describe **TWO** (2) general attributes of homologous and heterologous enzymes production.

(4 Marks)

2. Discuss the limitation of using *Escherichia coli* and *Pichia pastoris* as a heterologous expression system for enzyme production from eukaryotic cell.

(7 Marks)

- 3. A researcher from one research institute has decided to produce an enzyme in a heterologous production system that inherits an efficient secretory system.
- (a) Using the information given above, identify and explain the type of heterologous production involved and the advantages of using this type of production.

(8 Marks)

(b) Predict what would happen if the researcher decided to use heterologous production system with absent of secretory system and discuss **TWO** (2) disadvantages of using this type of production.

(5 Marks)

(c) Give ONE (1) example of heterologous production system that inherits an efficient secretory system and the special attributes of that system.

(7 Marks)

