

Exercise 1

Simple Arguments

Student ID:.....

Tutor: Dr. Mark Lee

Deadline: **Monday 3rd October 2011 12 pm**

Submissions should be deposited in the Language & Logic pigeon hole.

Please write all your answers on this sheet and then submit with a work slip stapled to the cover and **your Academic Advisor clearly indicated.**

Question 1: Propositions & Validity

In the box provided write if each sentence is a proposition or not.

She who hesitates is lost.

Do not do anything I would do.

Save soap and waste paper.

Fame is a food that dead men eat.

Women should marry but not men.

[2]

“If an argument is valid then you should always believe its conclusion.” Do you agree? Justify your answer in the box below.

[2]

Question 2: Simple Arguments

In the space provided, write whether following arguments are valid or invalid.

All elephants are scared of mice. Sally is an elephant. Therefore she is scared of mice.

If Thomas is not a goldsmith then John is not a merchant. Therefore Thomas is in fact a goldsmith because John is certainly a merchant.

If Hallowe'en is on a Saturday then Christmas is on a Sunday. Hallowe'en is not on a Saturday and therefore Christmas is not on a Sunday.

If the majority of the class attend the lecture then most will pass the course. If most pass the course then the year average will rise. Therefore if the majority of the class attend the lecture then the year average will rise.

[4]

Question 3: A halloween party

Mrs. Purple, Mrs. Brown, and Mrs. Orange attended a Halloween Party. They came wearing purple, brown, and orange costumes but not necessarily in their respective order. Mrs. Purple said to the lady wearing the brown costume, "Did you notice that the three of us are wearing costumes having colours not corresponding to our names?" Determine which coloured costume each of them wore during the Halloween Party.

Mrs. Purple wore.....

Mrs. Brown wore.....

Mrs. Orange wore.....

[2]