



**THE UNIVERSITY OF ZAMBIA**  
**SCHOOL OF ENGINEERING**  
**CIVIL AND ENVIRONMENTAL ENGINEERING**

**CEE 3222**  
**THEORY OF STRUCTURES**

**QUIZ 1**

# QUIZ 1

The roof deck of a single story building is subjected to a factored (Dead plus Live) load of  $125 \text{ kN/m}^2$ .

If the purlins are spaced  $4 \text{ m}$  and the bents are spaced  $25 \text{ m}$  apart;

- a) Determine the distributed loading that acts along the purlin DF
- b) Show Loading on the purlin DF

