QUIZ 5A – APPLIED THERMODYNAMICS

NAME:ID. NO.:

Analyse combustion of propane, C₃H₈ with theoretical air required by determining following parameters:

- a) Chemical equation of the combustion process,
- b) Air-fuel ratio,
- c) Mass of the combustion product,
- d) Mass fraction of CO₂,
- e) Mole fraction of CO₂, and
- f) Mass of dry combustion product.

QUIZ 5B - APPLIED THERMODYNAMICS

NAME: ID. NO.:

Analyse combustion of propane, C_3H_8 with 80% theoretical air supplied by determining following parameters:

- a) Chemical equation of the combustion process,
- b) Air-fuel ratio,
- c) Mass of the combustion product,
- d) Mass fraction of CO₂,
- e) Mole fraction of CO₂, and
- f) Mass of dry combustion product.

QUIZ 5C - APPLIED THERMODYNAMICS

NAME:ID. NO.:

Analyse combustion of propane, C_3H_8 with 50% air excess by determining following parameters:

- a) Chemical equation of the combustion process,
- b) Air-fuel ratio,
- c) Mass of the combustion product,
- d) Mass fraction of CO₂,
- e) Mole fraction of CO₂, and
- f) Mass of dry combustion product.