

## **University Examinations 2018/2019**

#### SCHOOL OF ENGINEERING AND TECHNOLOGY

## DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

## FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

#### DIPLOMA IN MECHANICAL ENGINEERING

#### MVED 106/2 ENGINE TECHNOLOGY AND PRACTICE I

DATE: 25/7/2019 TIME: 8.30-10.30 AM

## **INSTRUCTIONS:**

Answer Question One (Compulsory) and Any Other Two Questions

## **QUESTION ONE (30 MARKS)**

a) Illustrate three engine configurations

(15 marks)

b) Distinguish between a diesel and a petrol engine

(15 marks)

## **QUESTION TWO (20 MARKS)**

Using a well labelled diagram explain the otto cycle

# **QUESTION THREE (20 MARKS)**

Using a well labelled diagram explain the construction and operation of the two stroke cycle petrol engine

## **QUESTION FOUR (20 MARKS)**

A vehicle has been brought to motor vehicle workshop with a leaking cylinder head gasket, explain the procedure you will follow to replace the gasket

## **QUESTION FOUR (20 MARKS)**

Explain the method of carrying out the following inspections-:

- a) Warped or bend cylinder head
- b) Bend camshaft