

University Examinations for 2019/2020Academic Year SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING THIRD YEAR SPECIAL/SUPPLIMENTARY EXAMINATION FOR DIPLOMA IN MECHANICAL ENGINEERING MVED 106/2 ENGINE TECHNOLOGY AND PRACTICE I

DATE: 22/01/2021 TIME: 8.30-10.30 AM

INSTRUCTIONS

Answer Question One 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