



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

DIPLOMA IN MECHANICAL ENGINEERING

VEHICLE BODY WORK AND PRACTICE II

DATE: 10/5/2019

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer Question One (Compulsory) and Any Other Two Questions

QUESTION ONE (30 MARKS)

- a) Using a well labeled diagram explain the construction of the following body parts
- The bumper
 - the grille (10 marks)
- b) Using a well labeled diagram, explain how the vehicle chassis is checked for misalignment (20 marks)

QUESTION TWO (20 MARKS)

- a) State the functions of the vehicle chassis (3 marks)
- b) using sketches explain the construction of the vehicle chassis (17 marks)

QUESTION THREE (20 MARKS)

- a) Illustrate the oxy acetylene welding equipment (6 marks)
- b) With the aid of a diagram, explain the RIGHTWARD and the LEFTWARD GAS welding techniques (14 marks)

QUESTION FOUR (20 MARKS)

A vehicle has been brought to the body workshop after collision involving the front panels, explain the procedure you will follow to repair the damage

QUESTION FIVE (20 MARKS)

- a) Illustrate any FIVE types of butt joints practiced in ARC WELDING (10 marks)
- b) Explain how you will weld a cracked chassis member by using arc welding (10 marks)