



MACHAKOS UNIVERSITY

SCHOOL OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

SECOND YEAR SECOND SEMESTER

DIPLOMA IN MECHANICAL ENGINEERING

VEHICLE BODY WORK AND PRACTICE II

2 HOURS

INSTRUCTIONS

Answer Q1 and any other TWO Questions

Q1 a) Using a well labeled diagram explain the construction of the following body parts

- i. The bumper
- ii. the grille

10 marks

b) Using a well labeled diagram, explain how the vehicle chassis is checked for misalignment **20 marks**

Q2. State the functions of the vehicle chassis **3 marks**

b)using sketches explain the construction of the vehicle chassis **17 marks**

Q3a) 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

Q4. 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 **20 marks**

Q5. 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**