



MACHAKOS UNIVERSITY

University Examinations 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL AND MANUFACTURING ENGINEERING

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

CERTIFICATE IN MECHANICAL ENGINEERING

BODY WORK THEORY

DATE: 15/4/2019

TIME: 8.30-11.30 AM

INSTRUCTIONS:

This papers contains FIVE questions. attempt ALL the FIVE Questions. Marks for each section are indicated at the end of the sections.

QUESTION ONE (20 MARKS)

Using a well labeled diagram, explain the construction of the vehicle body chassis.

QUESTION TWO (20 MARKS)

- a) Illustrate the Gas welding equipment (8 marks)
- b) Explain any four Gas welding butt joints (12 marks)

QUESTION THREE (20 MARKS)

Using a well labeled diagram, explain the following gas welding techniques

- a) Leftward welding (10 marks)
- b) Rightward welding (10 marks)

QUESTION FOUR (20 MARKS)

Explain the method used to protect vehicle bodies against

- a) Oxidation and corrosion (10 marks)
- b) Heat and noise (10 marks)

QUESTION FIVE (20 MARKS)

- a) Name and explain at least FIVE tools used in body work repair (10 marks)
- b) Illustrate the named tools in Q5. a) above. (10 marks)