



MURANG'A UNIVERSITY COLLEGE

(A Constituent College of Jomo Kenyatta University of Agriculture & Technology)

SCHOOL OF ENGINEERING AND TECHNOLOGY

MECHANICAL ENGINEERING DEPARTMENT

CRAFT CERTIFICATE IN AUTOMOTIVE ENGINEERING

CLASS: CAE/14C

CODE: SEM 0107

VEHICLE BODY WORK

END OF TERM 3 EXAMINATION

DATE: 31st MARCH 2015

TIME: 3 HOURS

Instructions to the candidate: Attempt ALL the questions.

1. a) Illustrate the following parts on a saloon car
 - i) Bonnet
 - ii) Windscreen
 - iii) Front fender
 - iv) A-post
 - v) Cant sill
 - vi) D-post

(6mks)
- b) Using sketches, describe the following chassis alignment checks
 - i) plumb line check
 - ii) chassis alignment
 - iii) wheel base check

(4mks)
2. Using sketches, explain the characteristics of the following vehicle body structures:-
 - a) Pick up
 - b) Hatch back
 - c) Estate car
 - d) Salon vehicle

(10 marks)

3.a) During the roughing out damage process on a dented area of a vehicle, mainly two techniques are normally used. Name them and use sketches to briefly explain them. (3mks)

b) Name **FOUR** parts of a standard spray painting gun. (3 marks)

b) State the dangers of holding spray painting gun too close or too far to the surface (2marks)

c) State the kind of maintenance to be carried out on spray painting gun after use. (2 marks)

4. a) Explain using sketches the functions of the following vehicle body tools:

(i) Dolly

(ii) Shrinking hammer

(iii) Spoon

(iv) Picking hammer

(4marks)

b) Explain the procedure followed during painting preparation after repair of a dent. (6mks)

5. a) Using simple sketches, show the two methods of vehicle hood installation. (6mks)

b) Explain at least one advantage and one disadvantage of each of the methods shown in 4(a) above. (4mks)