GAUTENG DEPARTMENT OF EDUCATION

SENIOR CERTIFICATE EXAMINATION

MOTOR BODY REPAIRING SG

OCTOBER / NOVEMBER 2005 OKTOBER / NOVEMBER 2005

TIME: 3 hours

MARKS: 200

REQUIREMENTS:

- Calculator
- Drawing instruments

INSTRUCTIONS:

- Question 1 is COMPULSORY.
- Answer Question 1 and any SIX other questions.

QUESTION 1A

Answer TRUE or FALSE. Write down only the **question numbers** (1.1 - 1.10) and the correct answer next to the appropriate question number.

1.1	A powder is used when brazing.	(1)
1.2	The acetylene cylinder has a left-hand thread.	(1)
1.3	Thinners must be left in the spray gun after use.	(1)
1.4	The distance between the spray gun and the surface must be 400 mm.	(1)
1.5	A hardener is used with fibre glass.	(1)
1.6	Bolts and nuts are used in conventional types of chassis.	(1)
1.7	Cold shrinking is done by first heating and then cooling off.	(1)
1.8	When cutting with gas, the flame must be moved away from the operator.	(1)
1.9	Toe-in is usually done with the wheels turned slightly inwards.	(1)
1.10	All the old paint must first be removed before a panel can be resprayed.	(1) (10)

QUESTION 1B

1.11	What is good housekeeping?	(5)	
1.12	Name FIVE safety measures in the workplace.	(5)	
1.13	Name FIVE safety measures when working with gaswelding equipment.	(5)	
1.14	Name FIVE safety measures when using portable electrical devices.	(5)	
1.15	Name FIVE safety measures to be adhered to in the spray booth.	(5) (25)	
	QUESTION 1C		
1.16	Name FOUR tools used for motor body repairing.	(4)	
1.17	Name FOUR tools used for fibreglass work.	(4)	
1.18	What is meant by dry-spraying ?	(3)	
1.19	Name FOUR precautions to be taken before wheel alignment can be done.	(4) (15)	
		[50]	

QUESTION 2

Make line sketches of the following:

2.1	Positive camber	(5)
2.2	Ackerman principle	(5)
2.3	Toe-out on turns	(5)
2.4	Toe-in	(5)
2.5	Caster	(5) [25]

QUESTION 3

A door has been placed and must be resprayed.	Describe step by step the procedures	
which must be followed.		[25]

QUESTION 4

The windscreen of a car must be replaced. The broken	windscreen has already been
removed. Explain step by step the process of fitting the	new windscreen. [25]

P.T.O.

QUESTION 5

	was involved in a minor accident. The only damage is a dent in the body below pot lid. Describe the repairing of the dent.	[25]
	QUESTION 6	
about	loor of a sports car with a fibreglass body sustained a deep scratch. The scratch is 200 mm long and approximately 1 mm deep. The scratch is not right through the Describe the repair and spray of the panel.	[25]
	QUESTION 7	
7.1	Why must the battery be disconnected before arc welding can be done on the car?	(2)
7.2	Name TWO methods of measuring a door opening.	(2)
7.3	Name TWO methods of measuring a conventional chassis after repairing.	(2)
7.4	Why is synthetic body putty more popular than body lead filler?	(2)
7.5	Why do front wheels waggle?	(2)
7.6	Make a simple sketch to illustrate the neutral flame after setting the flame of the oxyacetylene gas welding torch.	(8)
7.7	Explain how hot shrinking is done.	(5)
7.8	How does the cutting nozzle differ from the welding nozzle in gas-welding equipment?	(2) [25]
QUESTION 8		
8.1	What is the purpose of a hardener with fibreglass?	(5)
8.2	Where is spot welding done on a car?	(5)
8.3	How would you remove a dent of about 70 mm in diameter on a body panel?	(5)
8.4	What causes the orange peel effect after spraying?	(5)
8.5	Why does the clear coat sometimes peel off from the base coat?	(5) [25]