higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

MOTOR BODYWORK THEORY N1

(11040561)

28 November 2023
09:00–12:00

This question paper consists of 5 pages.

142Q1E2328

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
MOTOR BODYWORK THEORY N1
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. Read all the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Use only a black or blue pen.
5. Write neatly and legibly.

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QUESTION 1

Study the picture below and answer the questions that follow.



1.1 Explain what you understand by *safety in the motor body workshop*. (4)

1.2 How should an oxyacetylene flame be put out? (2)

1.3 What is the purpose of a radiator? (2)

1.4 State TWO parts that usually wear on the window mechanism. (2)

1.5 State FOUR advantages of brazing. (4)

1.6 State the difference between a *carburising flame* and an *oxidising* flame. (4)

1.7 Name any TWO kinds of work that can be done by means of an electrical sanding machine. (2)
[20]

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QUESTION 2

2.1 What is the difference between *brazing* and *welding*? (4)

2.2 Name THREE types of welding flames and give ONE use for each. (6)

2.3 Define *hard surfacing*. (2)

2.4 In a motor body workshop, safety comes first. Study the figure below and answer the question that follows.



State EIGHT precautionary measures when using this high-pressure apparatus. (8)

[20]

QUESTION 3

3.1 State TEN spray-gun techniques. (10)

3.2 The roof of motor car was damaged by a weighty stone that dented it, resulting in stretching the metal.

Describe in detail how this stretched section is finished off by means of the hot-shrinking process. The hood lining has already been removed. (10)

[20]

QUESTION 4

4.1 As motor body repairer, you just finished painting a car using a spray gun.

Describe step by step how you would clean the spray gun. (10)

4.2 Describe the difference between *acetylene cylinders* and *oxygen cylinders*. (6)

4.3 Explain how you would test a radiator for leaks. (4)

[20]

QUESTION 5

The bonnet of a car was damaged in a thunderstorm. It has already been repaired and must be sprayed again with cellulose lacquer paint.

Describe the procedure in detail from preparation to where the paint has been sprayed on with a high-gloss finish. **[20]**

TOTAL: 100

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