



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T1150(E)(A5)T

NATIONAL CERTIFICATE

MOTOR BODYWORK THEORY N1

(11040561)

**5 April 2018 (X-Paper)
09:00–12:00**

This question paper consists of 5 pages.

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. Write neatly and legibly.
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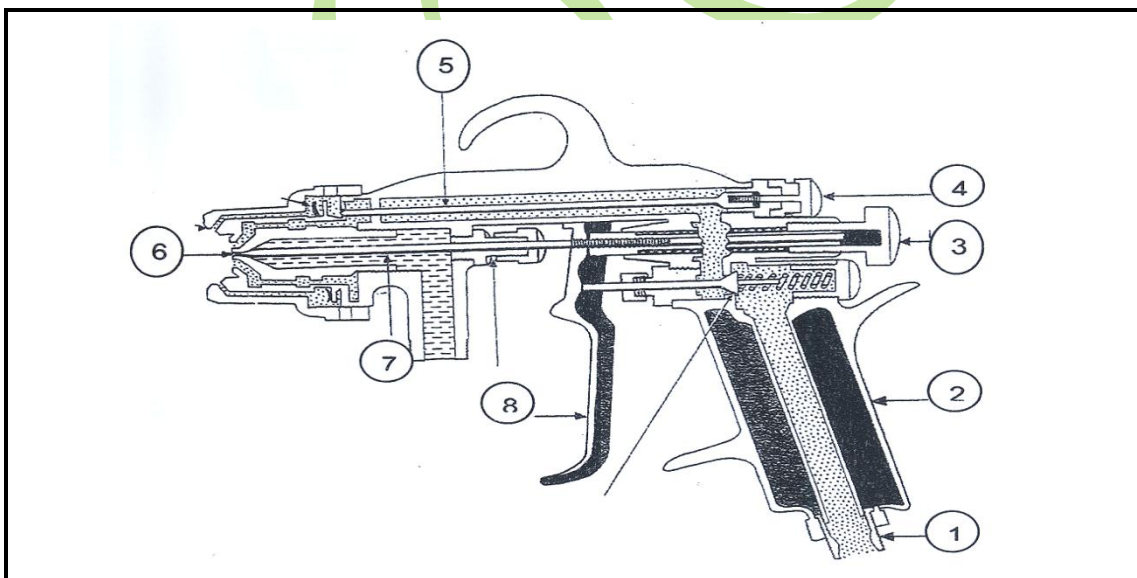
QUESTION 1

- 1.1 Describe how an oxy-acetylene flame is ignited and set to a neutral flame. (5)
- 1.2 How should an oxy-acetylene flame be put out? (2)
- 1.3 State the difference between a *carburising* and an *oxidising flame*. (2 + 2) (4)
- 1.4 State FIVE functions of fluxes. (5)
- 1.5 Give FOUR kinds of work that can be done by means of an electrical sanding machine. (4)

[20]**QUESTION 2**

- 2.1 State FIVE precautionary measures to be observed when working with a porto power. (5)
- 2.2 Give TWO advantages of the flexible rubber head which is used with the porto power. (2)
- 2.3 FIGURE 1 below shows a sectional view of a spray gun.

Name the numbered parts by writing the answer next to the number (1–8) in the ANSWER BOOK.

**FIGURE 1**

(8)

- 2.4 State FIVE general safety rules to be observed in the body repair shop. (5)

[20]

QUESTION 3

- 3.1 The fender of a motor car sustained a tear in an accident. The tear has already been welded and planished.

Describe how this welded section will be finished off by means of the lead-wiping process. (10 × 1) (10)

- 3.2 A heavy object fell on the roof of a car, denting and stretching the metal.

Describe how you will shrink the stretched area by means of the hot shrinking process. Assume that the hood lining has already been removed. (10)

[20]

QUESTION 4

- 4.1 FIGURE 2 shows a portable hydraulic set-up for a door frame.

Name the numbered parts by writing the answer next to the number (1–10) in the ANSWER BOOK.

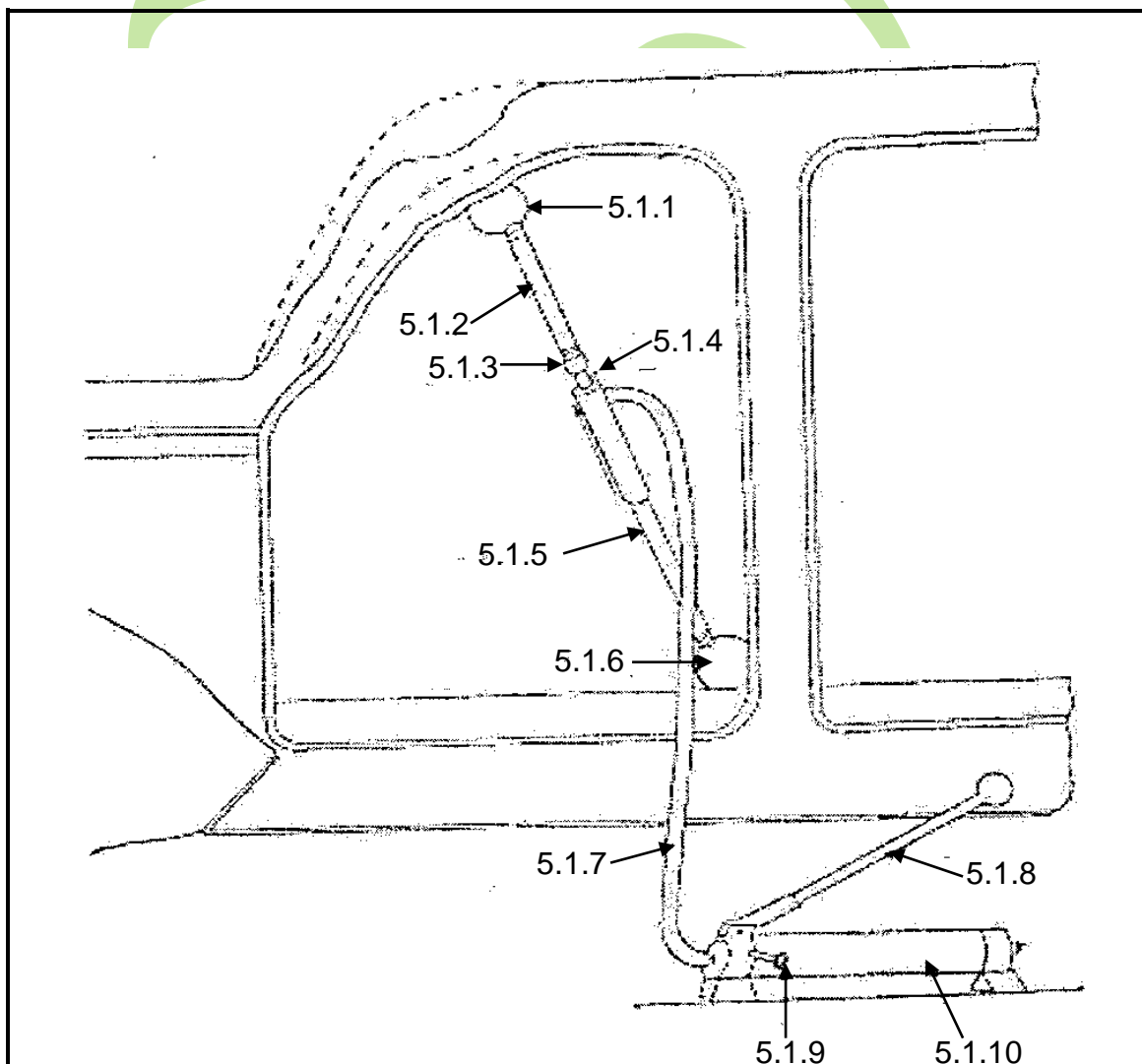


FIGURE 2

(10)

- 4.2 State FIVE important parts of the spray gun. (5)
- 4.3 State FIVE safety rules to be heeded in the spray-painting workshop. (5)
- [20]**

QUESTION 5

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

Describe the process in detail from preparation to where the paint has been sprayed on with a high-gloss finish. (20 × 1) **[20]**

TOTAL: 100

