

AUTO BODY REPAIRS AND SPRAY PAINTING

EXAMINATION SCHEME

There will be three papers, Papers 1, 2 and 3 all of which must be taken. Papers 1 and 2 will be a composite paper to be taken at one sitting.

Paper 1: will consist of forty multiple-choice objective questions all of which are to be answered in 1 hour for 40 marks.

Paper 2: will consist of five essay questions. Candidates will be required to answer any four in 1½ hours for 60 marks.

Paper 3: will be a practical test of 3 hours, 10 minutes duration. It will consist of one compulsory question for 100 marks.

A list of materials for the test shall be made available to schools not less than two weeks before the paper is taken for material procurement and relevant preparations.

Paper 3: ALTERNATIVE TO PRACTICAL TEST

The Council may consider testing candidates' ability in practical work as prescribed in the syllabus in the event that materials for the actual practical test cannot be acquired. For this alternative test there will be one question to be answered in 3 hours for 100 marks.

SAMPLE QUESTIONS

PAPER 1 (OBJECTIVE)

1. Which of the following is **not** a safety precaution to be observed in an Auto body repair shop?
 - A. Keep the workshop clean from dirt
 - B. Wear overall when working in the workshop
 - C. Engage in smoking in the workshop
 - D. Pour sand on oil on the workshop floor

2. Which of the following is a ferrous metal?
 - A. Copper
 - B. Aluminium
 - C. Steel
 - D. Bronze

3. The ease with which metals melt is known as
 - A. ductility.
 - B. weldability.
 - C. flowability.
 - D. fusibility.

4. The **main** reason for enforcing safety rules in the workshop is to
 - A. promote the life span of machines.
 - B. enhance working efficiency of work man.
 - C. avert accident in the workshop.
 - D. safeguard the life of tools and equipment.

5. *Sander* is used to
 - A. straighten wrecked vehicle body.
 - B. clogg the body surface of the vehicle.
 - C. apply body fillers on vehicle body.
 - D. smoothen the rough surface of vehicle body.

6. Which of the following materials is used to remove stains on vehicle body?
 - A. Water
 - B. Thinner
 - C. Diesel fuel
 - D. Turpentine

7. The type of plastic that can be found on the body of a vehicle are
 - A. Thermoplastic and resins.
 - B. Thermoplastic and thermosetting.

- C. Thermosetting and plastersine.
 - D. Thermosetting and bioplastic.
8. The agents in a metallic paint that bring out the colour of a vehicle are
- A. wetting and drying.
 - B. flakes and pigments.
 - C. spray gun and dying agents.
 - D. water and thinner.
9. The following are safety wears **except**
- A. goggles.
 - B. overall.
 - C. gloves.
 - D. charts.
10. Which of the following is **not** a ferrous metal?
- A. Copper
 - B. Mild steel
 - C. Wrought iron
 - D. Cast iron

PAPER 2
(ESSAY)

1. (a) State **three** causes of accidents in the workshop.
- (b) State **two** methods of preventing accidents in the workshop.
- (c) List **five** types of spoon used in Auto Body repair work.
2. (a) (i) List **two** types of Auto body shape;
(ii) List **two** major body structured sections.
- (b) Differentiate between the **two** types of Auto body construction.
- (c) Sketch **each** of the following:

- (i) fillet joint;
 - (ii) carburizing flame;
 - (iii) oxidizing flame.
3. (a) (i) List **five** tools used in Auto body repair workshop;
- (ii) Sketch **two** of the tools in 3(a) (i).
- (b) (i) Define heat treatment of metals;
- (ii) List **three** types of heat treatment.