

**CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD**

**Technical and Vocational Education Examination**



**SUBJECT NAME: REPAIRS AND MAINTENANCE OF RAC SYSTEM**

**PAPER 3: PRACTICAL REPAIR AND MAINTENANCE / 40 MARKS**

**Sub Code: 5310**

**JUNE 2020**

**INTERMEDIATE LEVEL**

Subject Title	<b>SUBJECT NAME</b>
Subject Code No.	<b>5310</b>
Paper No.	<b>THREE</b>

---

**Duration (3 HOURS)**

**No documents except those given by the examiners are authorized.  
Before starting this paper, be sure it includes page 1.**

**You are reminded of the necessity for good English and orderly presentation in your answers.**

---

**PART I: WRITTEN**

**45 mins / 9 marks**

**(This written part should be done at the same time by all candidates under Invigilation).  
The candidate must answer 3/5 question.**

- 1) Give and explain the function of the thermal relay in an electrical diagram. **(3marks)**

---

- 2) Explain with the help of a clamp, when you know that the refrigeration circuit is correctly charged. **(3marks)**

---

- 3) Cite the various types of connection used in electrical wiring in case of three phase motor. **(3marks)**

---

- 4) During the servicing of a split system you observed that, the liquid line is frosting from the service valve to the Evaporator, but the evaporator is not producing effectively. What is the explanation of the frost? Can you suggest any solution? **(3 marks)**

---

- 5) Explain how a dirty condenser can affect the refrigeration system. **(3 marks)**

---

**PARTII: PRACTICAL**

**2 H 15mins / 29 marks**

**A-EXECUTION**

**1H50mins / 20marks**

**The candidate should choose one among the three topics on the following themes:**

- 1) 2 electrical failures on the NO FROST refrigerator.
- 2) 2 frigorific failures on a split system.
- 3) Replacement of a filter-drier and charging of refrigerant in a refrigeration circuit of the refrigerator.

**B- PRESENTATION OF THE WORK TO THE JURY.**

**10 mins / 6 marks**

**C- WRITING OF REPORT.**

**15 mins / 3 marks**