

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
Technical and Vocational Education Examination



REFRIGERATION REPAIRS 1
5310

JUNE XXXX

INTERMEDIATE LEVEL

Centre No. & Name	
Candidate No.	
Candidate Name	

Mobile phones are **NOT** allowed in the examination room.

5310 REFRIGERATION REPAIRS 1: MULTIPLE CHOICE QUESTION PAPER

1 hour 30 minutes

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

1. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.
2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Before the examination begins:

3. Check that this question booklet is headed "**Intermediate Level – 5310 REFRIGERATION REPAIRS 1.**"
4. Insert the information required in the spaces above.
5. Insert the information required in the spaces provided on the answer sheet using your HB pencil:

Candidate Name, Exam Session, Subject Code, Centre Number and Candidate Number.

Take care that you do not erase or fold the answer sheet or make any marks on it other than those asked for in these instructions.

How to answer the questions in this examination:

6. Answer **ALL** the **50** questions in this Examination. All questions carry equal marks.
7. Each question has FOUR suggested answers: **A, B, C** and **D**. Decide which answer is correct. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.
For example, if **C** is your correct answer, mark C as shown below:
[A] [B] [C] [D]
8. Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
9. Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
10. Do all rough work in this booklet, using, where necessary, the blank spaces in the question booklet.
11. **You must not take this booklet and the answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.**

Turn Over

1. An accessories used to control the flow of refrigerant only in one direction

A	Check valve
B	Reversing valve
C	Accessories control
D	One direction control

2. which of the following helps in putting **ON** the refrigeration system in defrosting mode.

A	End defrost timer
B	Defrosting timer
C	Tele switch with timer
D	Refrigeration timer

3. The fan inside the refrigeration system turns with the help of

A	Motor
B	Compressor
C	Evaporator
D	Motor fan

4. An accessories found on a simple domestic refrigeration system is ?

A	Filter drier
B	Liquid receiver
C	Suction accumulator
D	Compressor

5. It controls the flow of refrigerant entering the evaporator.

A	Expansion valve
B	One way valve
C	Condenser
D	Suction accumulator

6. In which phase is the refrigerant after the condenser.

A	Liquid phase
B	Gas phase
C	vapour phase
D	Condense phase

7. Discharge line is the line between

A	The evaporator and the expansion
B	The evaporator and the compressor
C	The compressor and the evaporator
D	The compressor and the condenser

8. The low pressure side of our refrigeration system consist of ,

A	The evaporator and condenser
B	The evaporator and the expansion valve
C	The evaporator, the compressor and the

	discharge line
D	The condenser, the suction line and the evaporator

9. In a refrigeration system heat is rejected through

A	The condenser
B	The evaporator
C	The expansion valve
D	The compressor

10. In a refrigeration system heat is absorbed through

A	The condenser
B	The evaporator
C	The expansion
D	The compressor

11. The oil pressure switch is installed in which side of the system

A	Suction line
B	Discharge line
C	Expansion line
D	Oil line

12. Which valve below can be used in opening or closing refrigerant flow manually in a refrigeration system ?

A	Stop valve
B	One way valve
C	Four way valve
D	Solenoid valve

13. A valve that help in switching the system to revers cycle defrosting mode is called

A	Stop valve
B	One way valve
C	Four way valve
D	Solenoid valve

14. It automatically stop the compressor when the refrigerant pressure becomes abnormally high in the system

A	Low pressure switch
B	High pressure switch
C	Solenoid valve
D	One way valve

15. What could be the cause on a refrigerating system when the suction line becomes warm with a low suction pressure

A	Shortage of refrigerant
B	Increase of refrigerant
C	Shortage of oil
D	Increase of oil

16. What is the purpose of connecting and standing a drainage pan on the compressor surface

A	Because the compressor needs water to function
B	Because it is a safe place to keep the pan
C	So that the water should warm
D	To cool the compressor

17. It is mostly used to automatically control indoors air temperature

A	Low pressure switch
B	Pressure state
C	Thermostat
D	High pressure switch

18. Two types of natural draft type cooling tower are

A	Force draft and suction draft type
B	Cooling pond and spray pond
C	Cooling pond and force draft type
D	Spray pond and force draft type

19. Two types of forced draft type cooling tower are

A	Spray pond and suction draft type
B	Cooling pond and draft type
C	Cooling pond and suction draft type
D	Force draft type and suction draft type

20. Which state should refrigerant be when charging the system on the suction side

A	Vapour stage
B	Liquid stage
C	Vapour and liquid stage
D	Saturated liquid

21. Which state should refrigerant be when charging the system on the discharge side

A	Vapour stage
B	Liquid stage
C	Vapour and liquid stage
D	Compression stage

22. A device used to test the value of current, voltage, resistor in a given circuit can be

A	Ohm-meter
B	Ammeter
C	Multi-meter
D	Tester

23. A device used in measuring the value for electric current is called

A	Ohm-meter
B	Ammeter

C	Tester
D	Voltmeter

24. A device use in testing the value for a resistor is called

A	Ohm-meter
B	voltmeter
C	Ammeter
D	Tester

25. Which of the following helps in switching ON the system to refrigeration mode after the defrosting time

A	Defrosting timer
B	Refrigeration timer
C	End of defrosting timer
D	Refrigeration starting timer

26. A maximum functioning time of evacuating a room air conditioning should last for at most

A	1min
B	15hrs
C	1hr
D	15mins

27. Which of the following indicate good charging of an air conditioning and refrigeration system

A	When the whole condenser is hot
B	When half part of the condenser is hotter than the order
C	When the suction line is hot
D	When the condenser line is cold

28. An important possible cause of a refrigeration system not cooling well can be

A	Insufficient refrigerant
B	Too much refrigerant
C	When the compressor is bad
D	When there is no electric supply

29. When standing our refrigerator in the house make sure

A	You keep it some 1mm to 2mm
B	You keep it very closed to the wall
C	You keep it some 10cm to 20cm away from the wall
D	You keep it 10M to 20M away from the wall

30. Hermetic compressor are mostly used in

A	Big system
B	Small domestic system
C	Commercial big system
D	Industrial system

31. It is used in taking pressure reading when charging a system

A	Manifold
B	Vacuum pump
C	Multi-meter
D	Ohm-meter

32. The process of cooling a product for preservation is

A	Air conditioning
B	Refrigeration
C	Evaporation
D	Basic refrigeration

33. Which of the following is a good example of a water cooled condenser

A	Forced convection condenser
B	Cross fin coil type
C	Wind fin type
D	Double tube type

34. What will happened to a system if there is no filter drier

A	The system will not work
B	The capillary tube may block
C	The system will not cool
D	Oil will enter into the compressor

35. When charging the refrigeration system what should be the position of the service valve on the system

A	They are front seated
B	They are back seated
C	Middle seated
D	We don't turn them

36. After the condenser, the next line is called

A	The expansion line
B	The suction line
C	The liquid line
D	Low pressure liquid line

37. Why is the bubble method not used for finding a leakage when there is a vacuum in the system

A	Because the vacuum will make big bubbles
B	Because the bubbles will not appear in the presence of the vacuum
C	Because the bubbles will make noise
D	Because the bubbles can explode

38. What device help in reducing the pressure from high pressure to low pressure

A	Condenser
B	Compressor
C	Evaporator
D	Expansion valve

39. The compressor send out refrigerant through

A	The suction line
B	The discharge line
C	The liquid line
D	The expansion line

40. It implies positive temperature

A	Deep freezer
B	Freezer
C	Refrigeration
D	Ice marker

41. The only refrigeration element that uses oil is called?

A	Condenser
B	Evaporator
C	Expansion valve
D	Compressor

42. It can best be used to preserved food stuff where there is no electricity.

A	Ice
B	Freezer
C	Refrigerator
D	Air conditioning

43. The controlling of air, humidity and air cleanliness can best define

A	Refrigeration system
B	Air condition
C	Refrigerant
D	Refrigeration cycle

44. It is used in emptying refrigerant from the refrigeration system

A	Vacuum pump
B	Charging the pump
C	Emptying pump
D	Refrigerant cylinder

45. Vacuum pump is used in?

A	Charging the refrigeration system
B	Evacuating the refrigeration system
C	Pumping refrigerant into the system
D	Pumping oil into the system

46. Which colour of hose is to be connected at the low pressure side of the system when charging

A	Red
B	Yellow
C	Blue
D	Black

47. Which colour of hose is to be connected at the high pressure side of the system when charging

A	Red
B	Yellow
C	Blue
D	Black

48. Which colour of hose is to be connected to the vacuum pump when evacuating the system

A	Red
B	Yellow
C	Black
D	Blue

49. when charging a refrigeration system (liquid phase) what should be the position of the manual valves on the manifold

A	High pressure open and low pressure close
B	Both the high and low pressure close
C	Both the high and low pressure open

D	High pressure close and low pressure open
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50. when charging a refrigeration system (vapour phase) what should be the positions of the manual valves on the manifold

A	High pressure open low pressure closed
B	Both the high and low pressure close
C	Both the high and low pressure open
D	High pressure close and low pressure open