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Register No. :

Name of the Candidate:

## **DIPLOMA EXAMINATION, 2010**

**(REFRIGERATION AND AIR CONDITIONING)**

**(PAPER – III)**

### **130. AIR CONDITIONING SYSTEMS**

*December)*

*(Time: 3 Hours*

Maximum: 100 Marks

*Answer any FIVE questions*

*(5×20=100)*

*All questions carry equal marks*

1. What are the factors which play decisive role in air conditioning?
  2. Describe a sketch of layout, the operation of a packaged air conditioner.
  3. a) Give the advantages of unitary system over central air conditioning system.  
b) Explain the necessity of the following (i) duct, (ii) fans and (iii) filters.
  4. With a neat sketch explain the working of a centralized air conditioning system.
  5. Discuss the functions of the following in air conditioning system:  
(i) Solenoid valve (ii) Thermostat (iii) HP-LP cut off (iv) Capillary
  6. An ammonia air conditioner is to be evacuated. Discuss the procedures to be followed.
  7. a) Explain how leakages are detected for an air conditioning working with the following refrigerants: (i) ammonia, and (ii) R134a  
b) What is oil charging? Explain precautions to be taken up.
  8. Write a note on operation and maintenance of a milk chilling unit.
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