

**GUJARAT TECHNOLOGICAL UNIVERSITY****BVOC - SEMESTER-IV EXAMINATION – SUMMER 2022****Subject Code:1140404****Date:08-07-2022****Subject Name:RAC Installation Techniques - I****Time:10:30 AM TO 12:30 PM****Total Marks:50****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

|   | <b>Marks</b> |
|---|--------------|
| <b>Q.1</b> (a) Enlist commonly used Instruments, Tools and Supplies for installation of RAC system. | <b>05</b>    |
| (b) What Safety Precautions are considering while installing Room Air Conditioner.                  | <b>05</b>    |
| <b>Q.2</b> (a) Why do we need to evacuate an air conditioning system or a refrigeration system?     | <b>05</b>    |
| (b) Explain charging method with portable charging cylinder.  | <b>05</b>    |
| <b>OR</b>   |              |
| (b) Write short note on Evacuation of refrigeration system.   | <b>05</b>    |
| <b>Q.3</b> (a) Explain gas refrigerant charging in air conditioner.                                 | <b>05</b>    |
| (b) Enlist the factors considered for selecting leak testing method                                 | <b>05</b>    |
| <b>OR</b>   |              |
| <b>Q.3</b> (a) Enlist different types of leak detecting devices and explain any one in brief.       | <b>05</b>    |
| (b) Explain Pressure testing for leak testing method.   | <b>05</b>    |
| <b>Q.4</b> (a) Explain Refrigerant recovery method.   | <b>05</b>    |
| (b) Write short note on Evacuation of refrigeration system.   | <b>05</b>    |
| <b>OR</b>   |              |
| <b>Q.4</b> (a) Write Short note on Ventilation arrangement for window air conditioner.              | <b>05</b>    |
| (b) Explain the air purging process.  | <b>05</b>    |
| <b>Q.5</b> (a) Write Installation procedure of split air conditioner.                               | <b>05</b>    |
| (b) Explain in detail arrangement of Connecting the pipes and pipe insulations.                     | <b>05</b>    |
| <b>OR</b>   |              |
| <b>Q.5</b> (a) Write selection criteria for the mounting position of split air conditioner.         | <b>05</b>    |
| (b) Explain mounting of Indoor unit of Split Air conditioner.                                       | <b>05</b>    |

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