|  |  |  |
| --- | --- | --- |
| **I.** | **Fill in the blanks with appropriate answer** |  |
| 1 | Example of dry subcooled is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 2 | The least expensive freezing method is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 3 | In Block ice preparation, the secondary refrigerant used is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| 4 | Heart of mechanical refrigeration system is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |

**Key:**

**1. Flake ice**

**2. Still Air freezing**

**3. Nacl**

**4. Compressor**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **II.** | **Choose the correct answer** | | | | |  | |
|  | 1) | Electrical equivalent of one horse power in international system of units is | | | | | ( ) |
| A. | 766 Watts | B. | 746 Watts | | |
| C. | 764 Watts | D. | 744 Watts | | |
|  | 2) | Ratio of heating or cooling provided to the work required is called as | | | | | ( ) |
| A. | Coefficient of performance | B. | Both A and C | | |
| C. | Theoretical performance | D. | Unit of Refrigeration | | |
|  | 3) | Most widely used Expansion valve in commercial cold storages is | | | | | ( ) |
| A. | Hand operated | B. | Automatic | | |
| C. | Thermostatic | D. | Capillary | | |
|  | 4) | Pick the odd one out | | | | | ( ) |
| A. | Conduction | B. | Radiation | | |
| C. | Convection | D. | Conditioning | | |
|  | 5) | Power transmitted from one shaft to other through a number of pulleys is | | | | | ( ) |
| A. | Open belt drive | B. | Twisted belt drive | | |
| C. | Compound belt drive | D. | Belt drive with idler pulley | | |
|  |  |  |  |  |  | | |
|  | 6) | Heat which causes change in state is called as | | | | | ( ) |
| A. | Sensible heat | B. | Latent heat | | |
| C. | Specific heat | D. | All of the above | | |
|  | 7) | The gear used to transform circular motion into rectilinear motion is | | | | | ( ) |
| A. | Worm and wheel | B. | Crown gear | | |
| C. | Rack and Pinion | D. | Spiral Bevel gear | | |
|  | 8) | Subject which deals with force and their effects while the machine parts are at rest | | | | | ( ) |
| A. | Kinematics | B. | Dynamics | | |
| C. | Kinetics | D. | Statics | | |
|  | 9) | the angle employed for V belt is usually | | | | | ( ) |
| A. | 30-40 ° | B. | 20-30 ° | | |
| C. | 30-60 ° | D. | 40-80 ° | | |

**IV. One word answer/ Definitions/ Expand the following:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1**.** | VCRS : |  |  |
| 2**.** | RSW : |  |  |
| 3**.** | Absolute pressure: |  |  |
| 4**.** | Power : |  |  |
| 5**.** | Latent heat : |  |  |

**Long questions**

|  |  |
| --- | --- |
| **1.** | Give the details on types of ice and their method of preparation |
| **2.** | Explain in brief about VCRS with illustration. |
| **3.** | Discuss about types of gears and belts used for transmission of power |