

類 科：輪機技術

科 目：船舶輔機概要

考試時間：1小時30分

座號：_____

※注意：(一)禁止使用電子計算器。

(二)不必抄題，作答時請將試題題號及答案依照順序寫在試卷上，於本試題上作答者，不予計分。

一、試利用離心式泵的基本原理解釋為何使用時須引注水？有那些常用的引注水方法？
(20分)

二、影響往復式空氣壓縮機排氣量的因素為何？(20分)

三、造水機系統的操作管理應注意事項為何？(20分)

四、冷凍系統中，冷媒壓縮機排出壓力過高的原因及採取之對策為何？(20分)

五、請將下列英文譯成中文：(20分)

The bilge separator consists of a tank divided into several zones by internal baffles. A positive displacement bilge pump supplies unprocessed oil/water downstream into the purifier and simultaneously discharges treated water out of the tank.

As the oil/water mixture flows through the tank, oil droplets are attracted to the coalescer beads while water is repelled under the influence of gravity and heat. Water passes around the beads but oil temporarily attaches to them. Oil droplets accumulate on the beads until they become large enough to break away and float to the top of the tank.