

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、請敘述「止回閥 (Check valve)」之目的，並繪圖說明三種常見止回閥之構造與工作原理。(20 分)
- 二、請敘述密合墊 (Gasket) 之使用時機，依其構成材料區分可以分為那三類？並請說明其特性。(20 分)
- 三、請敘述熱交換器中「流體擋板 (Flow baffles)」之目的，並繪圖說明三種常見之流體擋板。(20 分)
- 四、請敘述甲板機械動力之分類及其使用時機。(20 分)
- 五、請將下列英文譯成中文。(20 分)

The centrifugal pump is now used for most applications and systems on ships. In the machinery space it provides a much more reliable service than the steam reciprocating pumps that were still being installed in the fifties as auxiliary boiler feed and fuel pumps for example. These reciprocating pumps required regular maintenance and, if neglected, they needed constant attention to keep them functioning. The general use of the centrifugal pump helped to make the unmanned machinery space viable.