

## LAYOUT OF PORTS

Quayage for different geometrical shapes adopted for suitable layouts are:

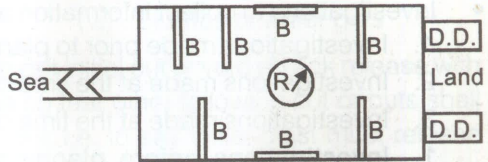
1. **Square layout**

2. **Rectangular layout**

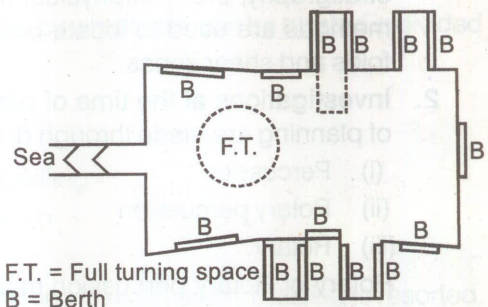
(i) *Simple rectangular layout:* Quayage for rectangular layout is greater than quayage for square layout but this nearly reduces chances of free turning.

(ii) Rectangular layout with central pier:

3. **Machicolated layout:** To make a rectangular layout with large quayage for the rectangular layout dimensions of length and breadth should be increased and piers should be made projecting from longer side in staggering style with a central open space for free turning.



4. **Tridentine layout:** The machicolated layout can further be modified to improve quayage by making lengths of layout flaring outside instead of at right angles to width side, partly and making use of excavations.



## DOCKS

- Docks which are used for berthing of vessels to facilitate loading and unloading of passengers and cargo are known as wet docks and those used for repairs of the vessels are known as dry docks.
- The wet docks are sometimes known as the harbour docks.