

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2015

00221

**BNA-051 : SHIP MANOEUVRING AND FUTURE
ISSUES**

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **seven** questions. All questions carry equal marks.*

1. Describe the factors affecting the manoeuvring capabilities of ships. 10

2. Describe the following in detail : 10
 - (a) Procedure of action when any person is observed falling overboard

 - (b) When a missing person is presumed overboard during a voyage

3. What effect does under keel clearance have on manoeuvring in shallow waters ? 10

4. In marine insurance field, define the following : 10
- (a) Total Constructive Loss
 - (b) Deductible
 - (c) Lapsed Policy
5. What are the objectives of Ballast Water and Sediment Management ? Give the background leading to the formation of the guidelines. 10
6. Describe with the help of a diagram, a typical Sewage Treatment Plant. 10
7. Enumerate and describe in detail, the factors affecting Air Pollution. 10
8. Write a short note on Solar Energy and its feasibility for fuel conservation on ships. 10
9. Give a background of the incidents related to any *one* of the following ships : 10
- (a) CASTOR
 - (b) PRESTIGE
 - (c) ERIKA
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