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B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2013

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

Time : 3 Hours

Maximum Marks : 70

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- Note :* (i) *Attempt all questions.*
(ii) *All questions carry equal marks.*
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1. Explain in brief any five factors, which affect the Manoeuvring capabilities of a ship. 10
2. Explain any two manoeuvres (with neat diagrams) for rescue of person(s) overboard. 10
3. What is the collision clause that is meant to make ship-owners more responsible ? Give details. 10
4. Explain in detail the "Ship Inspection Report Programme". 10
5. What is recording and reporting procedures for ships and port states in ballast water and sediment management ? 10

6. Explain with the help of neat diagram(s), the construction and working of a typical biological sewage treatment plant. **10**

 7. What do the IMO Guidelines states with respect to vessels reporting prior proceeding to the recycling yard ? Explain. **10**
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