

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

December, 2013

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

Time : 3 hours

Maximum Marks : 70

Note : (i) Attempt all questions.

(ii) All questions carry equal marks.

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1. Explain in detail the effect of wind during manoeuvring of ship when wind is from right ahead and when wind is from right astern. 10
 2. Explain in detail, what factors master must consider while choosing anchorage position for his ship ? 10
 3. What do you understand by third party liability ? Explain in detail 10
 4. What is the process of inspector accreditation ? 10
 5. What enforcement and monitoring are carried out by port states in ballast water and sediment management ? 10
 6. Explain the working of a typical chemical sewage treatment plant with the help of neat diagram(s). 10
 7. What do IMO guidelines expect of costal states in cases dealing with vessels seeking a place of refuge ? Explain. 10