

B.Sc. (NAUTICAL SCIENCE)

Term-End Examination

June, 2011

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

Time : 3 Hours

Maximum Marks : 70

Note : Attempt any four questions from Section-A and any three questions from Section-B. All questions carry equal marks. Write new answer from fresh page.

SECTION - A

1. With the help of a diagram, explain in detail the information given in the wheel house poster. 10
2. Explain in detail anchoring procedure when approaching identified anchorage. 10
3. What are the factors affecting manoeuvrability of ships in shallow water ? 10
4. Explain in brief the factors that determine the tug performance. 10
5. In marine insurance, list the covers provided by "P and I" clubs. 10
6. In vetting inspections, what are typical deficiencies pointed out by inspector ? 10

SECTION - B

7. What are the various options vessels have with respect to ballast water management ? 10
 8. Explain in detail, various factors affecting air pollution. 10
 9. Explain in brief about Tidal Energy. What are the advantage and disadvantage of Tidal Energy ? 10
 10. Explain in detail the IMO guidelines on ship recycling. 10
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